



**ENGINEERING SERVICES-SEWER CAPACITY IMPROVEMENTS
MCCARRAN BLVD. AND PRATER WAY
CITY OF SPARKS, NEVADA**

THIS CONTRACT made and entered into on this 22nd day of March, 2021, by and between the City of Sparks, Nevada, a municipal corporation, existing under and by virtue of the laws of the State of Nevada, hereinafter called "City", and **J-U-B Engineers, Inc.**, a qualified consultant in the class of work required, hereinafter called "Consultant".

W I T N E S E T H

WHEREAS, the City desires to engage Consultant in the performance of providing Professional Services which are more fully described in Consultant's Proposal dated January 29, 2021, attached hereto and incorporated herein by reference. (Hereinafter referenced to as "Proposal");

WHEREAS, Consultant's legal status is an Independent Contractor and Consultant is in good standing in the State of Nevada;

WHEREAS, Consultant desires to perform the Program under the terms and conditions set forth herein;

NOW, THEREFORE, IT IS AGREED as follows:

1. Scope of Work:

The scope of work for this contract is generally defined as **Sewer Capacity Improvements-McCarran Blvd. and Prater Way**. The City's Contract Documents and Consultant's Entire Proposal are on file with the City of Sparks and may be located within "Attachment A." All terms, conditions and requirements contained in these Documents, including any and all addenda issued by the City, are hereby incorporated into this Contract. The work scope will include, but not be limited to the tasks outlined in Attachment A.

The Consultant shall perform within the time stipulated, the Contract as herein defined and shall provide and furnish any and all of the labor, materials, methods or processes, equipment implements, tools, machinery and equipment, and all utility, transportation and other services required to complete all of the work covered by the Contract in connection with strict accordance with the plans, specifications or proposals, which were approved by said City and are on file with the City, including any and all addenda issued by the City, and with the other contract documents hereinafter enumerated. Consultant will have the right to control or direct the manner and the order in which it provides the services contemplated under this Agreement.

Consultant represents and warrants that Consultant is engaged in an independent calling and has complied and will continue to comply with all local, state and federal laws regarding business permits and licenses that may be required to carry out the independent calling and to perform the services to be performed under this Agreement.

Consultant understands that the services it has been retained to perform may be dangerous or may entail a



peculiar unreasonable risk of harm to others unless special precautions are taken and Consultant agrees to exercise reasonable care to take such precautions.

2. Payment for Project Services

As full consideration for the Professional Services to be performed by Consultant, City agrees to pay Consultant as set forth in accordance with the Fee Schedule set forth in the proposal and not to exceed fee of **\$120,045.00** for the project. The City will not hire or directly compensate the Consultant's employees, assistants or subcontractors, if any. It is expressly understood and agreed that all work done by Consultant shall be subject to review as to its result by the City at the City's discretion. Payment of any invoice shall not be taken to mean that the City is satisfied with Consultant's services to the date of payment and shall not forfeit City's right to require the correction of any service deficiencies.

3. Term

This Agreement shall become effective upon contract execution and will continue in effect until

MO/DY/YR, or

The Project is completed (Approximately _____), or unless earlier terminated as provided herein.

4. Time Devoted to Work:

In performing the services contemplated under this Agreement, the services and the hours Consultant is to work on any given day will be on a mutually agreed upon basis, except for attendance at scheduled meetings, and City will rely upon Consultant to put in such number of hours as is reasonably necessary to fulfill the spirit and purpose of this Agreement.

City understands that Consultant is engaged in the same or similar activities for others and that City may not be Consultant's sole client or customer. However, Consultant represents and warrants that it is under no obligation or restriction, nor will it assume any such obligation or restriction, that would in any way interfere or be inconsistent with the services to be performed under this Agreement.

5. No Unfair Employment Practices:

In connection with the performance of work under this Agreement, Consultant agrees not to discriminate against any employee or applicant because of race, creed, color, national origin, sex, sexual orientation, disability or age. Any violation of these provisions by Consultant shall constitute a material breach of this contract.

6. No Illegal Harassment:

Violation of the City's harassment policy, which is incorporated by reference and available from the Human Resources Division, by the Consultant, its officers, employees, agents, consultants, subcontractors and anyone for whom it is legally liable, while performing or failing to perform Consultant's duties under this Contract shall be considered a material breach of this contract.

7. Lawful Performance:

Vendor shall abide by all Federal, State and Local Laws, Ordinances, Regulations, and Statutes as may be related to the performance of duties under this agreement. In addition, all applicable permits and licenses required shall be obtained by the vendor, at vendor's sole expense.



8. Status of Consultant:

It is the intent of the parties that Consultant shall be considered an independent contractor and that Consultant, and anyone else for whom it is legally liable, shall not be considered employees, servants or agents of the City for any purpose. Furthermore, this Agreement shall not be construed to create a partnership or joint venture between the Consultant and the City.

Neither Consultant nor any of its employees or contractors shall be eligible to participate in City's industrial insurance, unemployment, disability, medical, dental, life or other insurance programs, or any other benefit or program that is sponsored, financed or provided by City for its employees.

Consultant agrees that it shall be Consultant's exclusive responsibility to pay all federal, state, or local payroll, social security, disability, industrial insurance, self-employment insurance, income and other taxes and assessments related to this Agreement. Neither FICA (Social Security), FUTA (Federal Employment), nor local, state or federal income taxes will be withheld from payments to Consultant. Consultant shall at Consultant's expense pay and be fully liable and responsible for, and indemnify and hold harmless City from, any assessments, fines or penalties relating to Consultant's failure to uphold any of these responsibilities.

9. City Ownership of Proprietary Information:

All reports, drawings, plans, specifications, and other documents prepared by Consultant as products of service under this Agreement shall be the exclusive property of the City and all such materials shall be remitted to the City by Consultant in a timely manner upon completion, termination or cancellation of this Agreement. Consultant shall not use, willingly allow or cause to have such materials used for any purpose other than performance of Consultant's obligations under this Agreement without the prior written consent of the City.

10. Public Records:

Consultant understands that City is subject to the provisions of NRS 239.010. As such, the City may have the duty to disclose the Consultant's reports or recommendations.

11. Insurance:

CONSULTANT'S ATTENTION IS DIRECTED TO THE INSURANCE REQUIREMENTS BELOW. IT IS HIGHLY RECOMMENDED THAT CONSULTANTS CONFER WITH THEIR RESPECTIVE INSURANCE CARRIERS OR BROKERS TO DETERMINE IN ADVANCE OF PROPOSAL SUBMISSION THE AVAILABILITY OF INSURANCE CERTIFICATES AND ENDORSEMENTS AS PRESCRIBED AND PROVIDED HEREIN.

The City may, unless otherwise required by law, waive or reduce the insurance requirements itemized here, at the discretion of the city's Contracts and Risk Manager.

Should work be required on City premises or within the public right-of-way, upon award of the contract, the bidder shall provide proof of insurance for the types of coverage, limits of insurance and other terms specified herein, prior to initiation of any services under City, Bid, Proposal or Contract. Coverage shall be from a company authorized to transact business in the State of Nevada and the City of Sparks and shall meet the following minimum specifications:



Contractor shall at its own expense carry and maintain at all times the following insurance coverage and limits of insurance no less than the following or the amount customarily carried by Contractor or any of its subcontractors, whichever is greater. Contractor shall also cause each subcontractor employed by Contractor to purchase and maintain insurance of the type specified herein. All insurers must have AM Best rating not less than A-VII, and be acceptable to the City. Contractor shall furnish copies of certificates of insurance evidencing coverage for itself and for each subcontractor. Failure to maintain the required insurance may result in termination of this contract at City's option. If Contractor fails to maintain the insurance as set forth herein, City shall have the right, but not the obligation, to purchase said insurance at Contractor's expense.

Contractor shall provide proof of insurance for the lines of coverage, limits of insurance and other terms specified below prior to initiation of any services. Coverage shall be from a company authorized to transact business in the State of Nevada and the City of Sparks. Contractor and any of its subcontractors shall carry and maintain coverage and limits no less than the following or the amount customarily carried by Contractor or any of its subcontractors, whichever is greater.

Applicable to this Contract	Insurance Type	Minimum Limit	Insurance Certificate	Additional Insured	Waiver of Subrogation
Yes	General Liability/Umbrella (Excess) Liability	\$2,000,000	✓	✓	✓
Yes	Automobile Liability	\$1,000,000	✓	✓	
Yes	Workers' Compensation	Statutory	✓	N/A	✓
Yes	Employer's Liability	\$1,000,000	✓	N/A	
Yes	Professional Liability	\$1,000,000	✓	N/A	N/A
No	Pollution Legal Liability	\$1,000,000	✓	N/A	N/A

Commercial General Liability

Contractor shall carry and maintain Commercial General Liability (CGL) and, if necessary to meet required limits of insurance, commercial umbrella/excess liability insurance with a total limit of not less than the limits specified herein.

For contracts that are for the construction or improvement of public facilities, the Contractor shall obtain and maintain products and completed operations liability coverage through the statute of repose after completion of the project. Continuing commercial umbrella coverage, if any, shall include liability coverage for damage to the insured's completed work equivalent to that provided under ISO form CG 00 01.

There shall be no endorsement or modification of the CGL limiting the scope of coverage for liability arising from pollution, explosion, collapse, underground property damage, or damage to the named insured's work unless Subcontractor carries and maintains separate policies providing such coverage and provides Contractor evidence of insurance confirming the coverage.



Minimum Limits of Insurance

\$2,000,000 Each Occurrence Limit for bodily injury and property damage

\$2,000,000 General Aggregate Limit

\$2,000,000 Products and Completed Operations Aggregate Limit

\$10,000 Medical Expense Limit

If Commercial General Liability Insurance or other form with a general aggregate limit is used, it shall be revised to apply separately to this PROJECT or LOCATION.

Coverage Form

Coverage shall be at least as broad as the unmodified Insurance Services Office (ISO) Commercial General Liability (CGL) "Occurrence" form CG 00 01 04/13 or substitute form providing equivalent coverage and shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract).

Additional Insured

City, its officers, agents, employees, and volunteers are to be included as insureds using the applicable ISO additional insured endorsement(s) or substitute forms providing equivalent coverage, in respects to damages and defense arising from: activities performed by or on behalf of Contractor, including the insured's general supervision of Contractor; products and completed operations of Contractor; premises owned, occupied, or used by Contractor. The coverage shall contain no special limitations on the scope of protection afforded to City, its officers, employees, or volunteers. Additional insured status for City shall apply until the expiration of time within which a claimant can bring suit per applicable state law.

Primary and Non-Contributory

Contractor's insurance coverage shall apply as primary insurance with respect to any other insurance or self-insurance programs afforded to City, its officers, agents, employees, and volunteers. There shall be no endorsement or modification of the CGL to make it excess over other available insurance; alternatively, if the CGL states that it is excess or pro rata, the policy shall be endorsed to be primary with respect to the additional insured. Any insurance or self-insurance maintained by City, its officers, employees, or volunteers shall be excess of Contractor's insurance and shall not contribute with it in any way.

Waiver of Subrogation

Contractor waives all rights against City and its agents, officers, directors and employees for recovery of damages to the extent these damages are covered by the commercial general liability or commercial umbrella liability insurance maintained pursuant to this agreement. Insurer shall endorse CGL policy as required to waive subrogation against the City with respect to any loss paid under the policy.

Endorsements

Policy forms or endorsements are required confirming coverage for all required additional insureds. The forms or endorsements for CGL shall be at least as broad as the unmodified ISO additional insured endorsement CGO 20 10 07/04 and CG 20 37 07/04 or substitute forms providing additional insured coverage for products and completed operations.



A waiver of subrogation in favor of City shall be endorsed to the policy using an unmodified Waiver of Transfer of Rights of Recovery of Others to Us ISO CG 24 04 05 09, or a substitute form providing equivalent coverage.

Business Automobile Liability

Minimum Limits of Insurance

\$1,000,000 Combined Single Limit per accident for bodily injury and property damage or the limit customarily carried by Contractor, whichever is greater. No aggregate limit may apply. Coverage may be combined with Excess/Umbrella Liability coverage to meet the required limit.

Coverage Form

Coverage shall be at least as broad as the unmodified Insurance Services Office (ISO) Business Automobile Coverage form CA 00 01 10/13, CA 00 25 10/13, CA 00 20 10/13 or substitute form providing equivalent coverage. Such insurance shall cover liability arising out of any auto (including owned, hired, and non-owned autos).

Additional Insured

City, its officers, agents, employees, and volunteers are to be included as insureds with respect to damages and defense arising from the ownership, maintenance or use of automobiles owned, leased, hired, or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to City, its officers, employees, or volunteers. Additional insured status for City shall apply until the expiration of time within which a claimant can bring suit per applicable state law.

Endorsements

A policy endorsement is required listing all required additional insureds. The endorsement for Business Automobile Liability shall be at least as broad as the unmodified ISO CA 20 48 10/13 or a substitute form confirming City's insured status for Liability Coverage under the Who Is An Insured Provision contained in Section II of the coverage form ISO CA 00 01 10/13.

Waiver of Subrogation.

Contractor waives all rights against City, its officers, agents, employees, and volunteers for recovery of damages to the extent these damages are covered by the commercial general liability or commercial umbrella liability insurance maintained pursuant to this agreement. Contractor's insurer shall endorse policy to waive subrogation against City with respect to any loss paid under the policy.

Workers' Compensation and Employer's Liability

Contractor shall carry and maintain workers' compensation and employer's liability insurance meeting the statutory requirements of the State of Nevada, including but not limited to NRS 616B.627 and NRS 617.210 or provide proof that compliance with the provisions of Nevada Revised Statutes Chapters 616A-D and all other related chapters is not required. It is understood and agreed that there shall be no coverage provided for Contractor or any Subcontractor of the Contractor by the City. Contractor agrees, as a precondition to the performance of any work under this Agreement and as a precondition to any obligation of the City to make any payment under this Agreement to provide City with a certificate issued by an insurer in accordance with NRS 616B.627 and with a certificate of an insurer showing coverage pursuant to NRS 617.210.



It is further understood and agreed by and between City and Contractor that Contractor shall procure, pay for and maintain the above-mentioned coverage at Contractor's sole cost and expense.

Should Contractor be self-funded for workers' compensation and employer's liability insurance, Contractor shall so notify City in writing prior to the signing of this Contract. City reserves the right to approve said retentions, and may request additional documentation, financial or otherwise, for review prior to the signing of this Contract.

Upon completion of the project, Contractor shall, if requested by City, provide a Final Certificate for itself and each Subcontractor showing that Contractor and each Subcontractor had maintained the required Workers Compensation and Employer's Liability by paying all premiums due throughout the entire course of the project.

Nevada law allows the following to reject workers' compensation coverage if they do not use employees or subcontractors in the performance of work under the contract:

- Sole proprietors (NRS 616B.627 and NRS 617.210)
- Unpaid officers of quasi-public, private or nonprofit corporations (NRS 616B.624 and NRS 617.207)
- Unpaid managers of limited liability companies (NRS 616B.624 and NRS 617.207)
- An officer or manager of a corporation or limited liability company who owns the corporation or company (NRS 616B.624 and NRS 617.207)

If a contractor has rejected workers' compensation coverage under applicable Nevada law, the contractor must indicate the basis for the rejection of coverage and complete, sign and have notarized an Affidavit of Rejection of Coverage. The Affidavit must be completed, signed and notarized prior to performance of any work.

Minimum Limits of Insurance

Workers' Compensation:	Statutory Limits
Employer's Liability:	\$1,000,000 Bodily Injury by Accident – Each Accident
	\$1,000,000 Bodily Injury by Disease – Each Employee
	\$1,000,000 Bodily Injury by Disease – Policy Limit

Coverage Form

Coverage shall be at least as broad as the unmodified National Council on Compensation Insurance (NCCI) Workers Compensation and Employer's Liability coverage form WC 00 00 07/11 or substitute form providing equivalent coverage.

OTHER INSURANCE COVERAGES (IF APPLICABLE)

Professional Liability Insurance (if Applicable) \$1,000,000 each claim limits of liability or whatever limit is customarily carried by the Contractor, whichever is greater, for design, design-build or any type of professional services. If coverage is required on a claims-made or claims-made and reported basis, any applicable retroactive or pending & prior litigation dates must precede the effective date of this contract. Continuous coverage shall be maintained, or an extended reporting period shall be obtained for a period of at least three (3) years following completion of the project.



ALL COVERAGES

Coverage shall not be suspended, voided, canceled, or non-renewed by either CONTRACTOR or by the insurer, reduced in coverage or in limits except after thirty (30) days' prior written notice has been given to CITY except for ten (10) days' notice for nonpayment of premium.

DEDUCTIBLES AND RETENTIONS

Any deductibles or self-insured retentions that exceed \$100,000.00 per occurrence or claim must be declared to and approved by the City's Contracts and Risk Manager and prior to signing this Contract. City is entitled to request and receive additional documentation, financial or otherwise, prior to giving its approval of the deductibles and self-insured retentions. Any changes to the deductibles or self-insured retentions made during the term of this Contract or during the term of any policy must be approved by City's Contracts and Purchasing Manager prior to the change taking effect. Contractor is responsible for any losses within deductibles or self-insured retentions.

OTHER INSURANCE PROVISIONS

Should City and Contractor agree that higher coverage limits are needed warranting a project policy, project coverage shall be purchased and the premium for limits exceeding the above amount may be borne by City. City retains the option to purchase project insurance through Contractor's insurer or its own source.

Any failure to comply with reporting provisions of the policies shall not affect coverage provided to City, its officers, agents, employees, or volunteers.

ACCEPTABILITY OF INSURERS

Insurance is to be placed with insurers with a Best's rating of no less than A-VII and acceptable to the City. City, with the approval of the Risk Manager, may accept coverage with carriers having lower Best's ratings upon review of financial information concerning Contractor and insurance carrier. City reserves the right to require that Contractor's insurer be a licensed and admitted insurer in the State of Nevada, or meet any applicable state and federal laws and regulations for non-admitted insurance placement.

VERIFICATION OF COVERAGE

Contractor shall furnish City with certificates of insurance and with original endorsements affecting coverage required by this contract. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

Prior to the start of any Work, Contractor must provide the following documents to City of Sparks, Attention: Purchasing Division, P.O. Box 857, Sparks, NV 89432-0857:

- A. **Certificate of Insurance.** Contractor must provide a Certificate of Insurance form to the City of Sparks to evidence the insurance policies and coverage required of Contractor.
- B. **Additional Insured Endorsements.** An original Additional Insured Endorsement, signed by an authorized insurance company representative, must be submitted to the City of Sparks, by attachment to the Certificate of Insurance, to evidence the endorsement of the City of Sparks as additional insured.



C. Policy Cancellation Endorsement. Except for ten (10) days' notice for non-payment of premium, each insurance policy shall be endorsed to specify that without thirty (30) days prior written notice to the City of Sparks, the policy shall not be suspended, voided, cancelled or non-renewed, and shall provide that notices required by this paragraph shall be sent by certified mailed to the address specified above. A copy of this signed endorsement must be attached to the Certificate of Insurance. If endorsements are not available, Contractor shall be responsible to provide prior written notice to City as soon as practicable upon receipt of any notice of cancellation, non-renewal, reduction in required limits or other material change in the insurance required under this Agreement.

D. Bonds (as Applicable). Bonds as required and/or defined in the original bid documents.

All certificates and endorsements are to be addressed to the City of Sparks, Purchasing Division and be received and approved by City before work commences. The City reserves the right to require complete certified copies of all required insurance policies at any time.

SUBCONTRACTORS

Contractor shall include all Subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each Subcontractor. All coverages for Subcontractors shall be subject to all the requirements stated herein.

MISCELLANEOUS CONDITIONS

1. Contractor shall be responsible for and remedy all damage or loss to any property, including property of City, caused in whole or in part by Contractor, any Subcontractor, or anyone employed, directed, or supervised by Contractor.
2. Nothing herein contained shall be construed as limiting in any way the extent to which Contractor may be held responsible for payment of damages to persons or property resulting from its operations or the operations of any Subcontractors under it, and such coverage and limits required herein shall not be deemed as a limitation on Contractor's liability under the indemnities granted to City in this contract.
3. In addition to any other remedies City may have if Contractor fails to provide or maintain any insurance policies or policy endorsements to the extent and within the time herein required, City may, at its sole option:
 - a. Purchase such insurance to cover any risk for which City may be liable through the operations of Contractor under this Agreement and deduct or retain the amount of the premiums for such insurance from any sums due under the Agreement;
 - b. Order Contractor to stop work under this Agreement and/or withhold any payments which become due Contractor here under until Contractor demonstrates compliance with the requirements hereof; or,
 - c. Terminate the Agreement.
4. If Contractor's liability policies do not contain the standard ISO separation of insureds condition, or a substantially similar clause, they shall be endorsed to provide cross-liability coverage.



12. Indemnity:

To the fullest extent permitted by law, upon award, Contractor shall hold harmless and indemnify, City, its affiliates, officers, agents, employees, volunteers, successors and assigns ("Indemnified Parties"), and each of them from and against any and all claims, demands, causes of action, damages, costs, expenses, actual attorney's fees, losses or liabilities, in law or in equity, of every kind and nature whatsoever ("Claims") to the extent that such Claims are caused by the negligence, errors, omissions, recklessness, or intentional misconduct of Contractor, its employees, agents, representatives, or Subcontractors in any way related to the performance of work under this Agreement by Contractor, or to work performed by others under the direction or supervision of Contractor, including but not limited to:

1. Personal injury, including but not limited to bodily injury, emotional injury, sickness or disease, or death to persons;
2. Damage to property of anyone, including loss of use thereof;
3. Penalties from violation of any law or regulation caused by Contractor's action or inaction;
4. Failure of Contractor to comply with the Insurance requirements established under this Agreement;
5. Any violation by Contractor of any law or regulation in any way related to the occupational safety and health of employees.

In determining the nature of the claim against City, the incident underlying the claim shall determine the nature of the claim, notwithstanding the form of the allegations against City.

In addition to Contractor's duty to hold harmless and indemnify the Indemnified Parties above, Contractor shall also defend the Indemnified Parties with respect to any Claims caused by the negligence, errors, omissions, recklessness or intentional misconduct of Contractor, its employees, agents, representatives, or Subcontractors which are not based upon or arising out of the professional services of Contractor. However, Contractor shall not be required to defend the Indemnified Parties with respect to Claims caused by the negligence, errors omissions, recklessness or intentional misconduct of Contractor, its employees, agents, representatives, or Subcontractors which are based upon or arising out of the professional services of Contractor. In such an event, if Contractor is adjudicated to be liable by a trier of fact, the trier of fact shall award reasonable attorney's fees and costs to be paid by Contractor to the Indemnified Parties, as reimbursement for the attorney's fees and costs incurred by the Indemnified Parties in defending against such Claims, in an amount which is proportionate to the liability of Contractor.

In cases of professional service agreements, requiring professional liability coverage:

If the insurer by which a Consultant is insured against professional liability does not so defend the City and applicable agents and/or staff, and the Consultant is adjudicated to be liable by a trier of fact, the City shall be entitled to reasonable attorney's fees and costs to be paid to the City by the Consultant in an amount which is proportionate to the liability of the of the Consultant.

Nothing in this contract shall be interpreted to waive nor does the City, by entering into this contract, waive any of the provisions found in Chapter 41 of the Nevada Revised Statutes.



13. Material Breach of Contract:

In the event Consultant fails to deliver the product and services as contracted for herein, to the satisfaction of the City of Sparks or otherwise fails to perform any provisions of this Contract, the City, after providing five (5) days written notice and consultant's failure to cure such breach, may without waiving any other remedy, make good the deficiencies and deduct the actual cost of providing alternative products and/or services from payment due the Consultant. Non-performance after the first notice of non-performance shall be considered a material breach of contract.

14. Termination:

The City may terminate the Contract for material breach of contract upon ten (10) days written notice and recover all damages, deducting any amount still due the Consultant from damages owed to the City, or seek other remedy including action against all bonds. The Consultant may terminate the Contract for material breach of contract upon thirty (30) days written notice to the City.

Notwithstanding the preceding paragraph, the City may immediately terminate the Agreement, and Consultant waives any and all claim(s) for damages, upon the Consultant's receipt of notice under the following conditions:

- a) If funding is not obtained, continued, or budgeted at levels sufficient to allow for purchase of the services contemplated under this Agreement per Section 23 of this Agreement;
- b) If any federal, state or local law, including but not limited to, statutes, regulations, ordinances and resolutions, is interpreted by a third party judicial, legislative or administrative authority in such a way that the services contemplated under this Agreement are no longer authorized for purchase or appropriate for City financial participation;
- c) If Consultant fails to comply with any local, state or federal law regarding business permits and licenses required to perform the services to be performed under this Agreement or
- d) If it is found that any quid pro quo or gratuities were offered or given by the Consultant to any officer or employee of the City with a view towards securing favorable treatment with respect to awarding, extending, amending or making any determination with respect to the performance of this Agreement.

The indemnity and conflict resolution obligations of this Agreement shall survive the termination of this Agreement and shall be binding upon the parties' and the parties' legal representatives, heirs, successors and assigns.

The City may terminate this agreement for any reason without penalty upon giving thirty (30) days written notice to the Consultant. In the event of termination, the full extent of City liability shall be limited to an equitable adjustment and payment for materials and/or services authorized by and received to the satisfaction of the City prior to termination.

15. Licenses and Permits:

The Consultant shall procure at his own expense all necessary licenses and permits and shall adhere to all



the laws, regulations and ordinances applicable to the performance of this Contract.

All consultants doing business within the City of Sparks are required to obtain and maintain a current business license from the City of Sparks prior to commencement of this contract. Per Sparks Municipal Code Section 5.08.020A: "It is unlawful for any person to transact business in the City without first having obtained a license from the City to do so and without complying with all applicable provisions of this title and paying the fee therefore."

16. Boycott of Israel (NRS 332.065) (This Section IS IS NOT Applicable to this bid):

Pursuant to NRS 332.065 any Contract entered into under NRS Chapter 332 in which the estimated annual dollar amount exceeds \$100,000 will require written certification that the bidder is not, and will not be, engaged in a Boycott of Israel throughout the duration of the Contract. The term "Boycott of Israel" has the meaning ascribed in NRS 332.065(5). Bidder certifies that it is not, and will not be, engaged in a Boycott of Israel throughout the duration of the Contract.

17. Drafting Presumption:

The parties acknowledge that this Agreement has been agreed to by both parties, that both parties have consulted or have had the opportunity to consult with attorneys with respect to the terms, and that no presumption shall be created against the City as the drafter of the Agreement.

18. Governing Law:

The laws of the State of Nevada shall govern this Agreement without regard to conflicts of law principles.

19. Jurisdiction and Venue:

Any action or proceeding seeking to enforce any provision of, or based on any right arising out of, this Agreement must be brought against either of the parties in the courts of the State of Nevada, County of Washoe. Each of the parties consents to the jurisdiction of the court (and of the appropriate appellate court) in any such action or proceeding and waives any objection to venue laid therein.

20. Claims:

Pursuant to NRS 268.020, which the parties agree to abide by contractually, all demands and accounts against the City must be presented to the Council, in writing, within six (6) months from the time the demands or accounts become due. No demand or account may be audited, considered, allowed or paid by the City unless this requirement is strictly complied with.

21. Assignment:

All of the terms, conditions and provisions of this Contract, and any amendments thereto, shall inure to the benefit of and be binding upon the parties hereto, and their respective successors and assigns. The Consultant shall not assign this Contract without the written consent of the City which will not be unreasonably withheld.

22. Notices:

All notices required to be given in writing by this Contract shall be deemed to be received (i) upon delivery if personally delivered, or (ii) when receipt is signed for if mailed by certified or registered mail, postage prepaid, or by express delivery service or courier, when addressed as follows (or sent to such



other address as a Party may specify in a notice to the others):

CITY OF SPARKS - PURCHASING DIVISION
431 PRATER WAY
PO BOX 857
SPARKS, NV 89432-0857

Lonnie Johnson
J-U-B Engineers
9160 Double Diamond Pkwy.
Reno, NV 89521

23. Entire Contract:

This Contract and all associated documents associated by reference constitute the entire agreement of the parties and shall supersede all prior offers, negotiations, agreements and contracts whether written or oral. Any modifications to the terms and conditions of this Contract must be in writing and signed by both parties.

24. Waiver:

No waiver of any term, provision or condition of this Contract, whether by conduct or otherwise, in any one or more instances, shall be deemed to be nor shall it be construed as a further or continuing waiver of any such term, provision or condition of this Contract. No waiver shall be effective unless it is in writing and signed by the party making it.

25. Annual Appropriation of Funds:

Multi-year contracts and leases are subject to annual appropriation of funds by the City Council. The City plans and makes appropriations to the City Budget with respect to a fiscal year that starts July 1st and ends June 30th of each year. Payments made under term contracts and leases are considered items of current expense. Purchase Orders are funded when issued; therefore, they are current expense items and are not subject to any subsequent appropriation of funds. Continuance of a multi-year contract beyond the limits of funds available shall be contingent upon appropriation of the requisite funds in the ensuing fiscal year and the termination of this contract by lack of appropriation shall be without penalty.

26. Severability:

If any part of this Contract is found to be void it will not affect the validity of the remaining terms of this Contract which will remain in full force and effect.

27. Headings:

Paragraph titles or captions contained in this Contract are inserted only as a matter of convenience and for reference only, and in no way define, limit, extend, or describe the scope of this Contract or the intent of any provision hereof.

28. Singular Includes the Plural; Gender; Title Reference:

Whenever the singular number is used in this Contract and when required by the context, the same shall include the plural, and the use of any gender, be it masculine, feminine or neuter, shall include all of the genders, and the word "person" or "entity" shall include corporation, firm, partnership, or any other combination or association.

The use of the title "Bidder", "Vendor", "Contractor" or "Consultant" within this contract or associated bid documents shall be deemed interchangeable and shall refer to the person or entity with whom the City of Sparks is contracting for the service or product referenced within this contract.



29. Execution:

The parties agree to execute such additional documents and to take such additional actions as are reasonably necessary or desirable to carry out the purposes hereof. They also agree, acknowledge and represent that all corporate authorizations have been obtained for the execution of this Contract and for the compliance with each and every term hereof. Each undersigned officer, representative or employee represents that he or she has the authority to execute this Contract on behalf of the party for whom he or she is signing.

IN WITNESS WHEREOF, the City of Sparks has caused this Contract to be executed by its officers thereunto duly authorized and the Consultant has subscribed same, all on the day and year first above written.

(Consultant)

CITY OF SPARKS, NEVADA
A Municipal Corporation

By: _____

By: _____
Ed Lawson, Mayor

(Title)

APPROVED AS TO FORM

ATTEST:

City Attorney

City Clerk



Attachment A

Price and scope per written proposal provided by J-U-B Engineers, dated January 29, 2021 (attached).



J-U-B ENGINEERS, INC.



**THE
LANGDON
GROUP**
a J-U-B Company



**GATEWAY
MAPPING
INC.**
a J-U-B Company

OTHER J-U-B COMPANIES

Revised January 29, 2021

Via email: kporter@cityofsparks.us

Kevin Porter, PE & Ashley Elson, PE
City of Sparks Community Services
Engineering Division
431 Prater Way
Sparks, NV 89431

Re: McCarran Boulevard & E. Prater Way Sanitary Sewer Capacity Improvements

Dear Mr. Porter & Mr. Elson:

J-U-B Engineers, Inc. (J-U-B) is pleased to submit this Proposal to provide Civil Engineering services for design of sanitary sewer mainline capacity improvements, topographical surveying, geotechnical investigation, NDOT permitting, and bidding support services for the McCarran Blvd. & Prater Way Sewer Capacity Improvement Project, located in the City of Sparks along the southbound lanes of McCarran Blvd. from E. Greenbrae Dr. to Prater Way, and approximately 300 feet east of the McCarran/Prater intersection to the tie-in point in the westbound Prater Way lanes, in the vicinity of the westbound-to-northbound free right lane.

The Scope of Services outlined on the following pages is based on our recent meetings, emails, archive files, site visit and understanding of your needs and information provided to J-U-B.

The following assumptions were made while preparing this scope of work:

- All new sanitary sewer pipe and manholes will be installed using “open dig” methods
- Sanitary sewer laterals will not be completely replaced – they will either be reconnected at edge of trench (if lateral is in acceptable condition per City of Sparks direction), or at the edge of Right-of-Way (if replacement is desired by the City of Sparks)
- All sanitary sewer manholes along the alignment will be replaced with new manholes
- All trenches will receive permanent T-patch, with mill and overlay and/or full depth reconstruct along the entire length of pipe alignment, pending geotechnical recommendations and input from the City of Sparks and NDOT on required street restoration methods.

(775) 852-1440 | jub.com

9160 Double Diamond Parkway, Reno, Nevada 89521

PHASE 1 – DESIGN & BIDDING SERVICES

Task 1: Team Meetings & Coordination **\$6,000**

During the design efforts J-U-B's project manager and other design staff will be available to meet in person or by conference call and coordinate with City of Sparks management and staff, utility agencies, NDOT and other consultants (Geotech, etc.), as needed. J-U-B will be available for coordination regarding the sewer upgrade design, geotechnical investigation, survey of existing conditions, potential site constraints/work-arounds, files exchange, and other coordination efforts.

Task 2: Existing Utility Research **\$3,600**

J-U-B will research existing utility locations. Data for existing sanitary sewer in the vicinity has been provided by the City of Sparks. City of Sparks will also provide data for existing storm drain infrastructure. We will contact utility purveyors and local permitting agencies regarding locations of existing water, telephone, gas, data (fiber and/or communications) and electrical service. AT&T charges \$200 fee for their existing utility information. This fee will be billed as a reimbursable expense. J-U-B will also make site visits to investigate manholes, locate existing clean-outs, and verify lateral connections (in addition to reviewing Sparks sewer video files).

Task 3: Topographic Survey & Mapping **\$13,000**

Conduct field topographic surveys, and office support to provide topographic design survey of approximately 2,300 linear feet of existing roadway conditions of the proposed sewer upgrade area located on McCarran Blvd. (see attached exhibit). The limits of survey are from approximately the north curb return of Greenbrae Drive (including approx. 250' west and 100' east on Greenbrae Drive to capture the next upstream and/or downstream sewer MH's) to approximately the southern curb return of Prater Way (including approx. 600' west and 600' east on Prater Way or until the next upstream and/or downstream sewer MH's). The full width on McCarran Blvd. including at 15-feet behind past the existing curb on each side will be included, with detailed survey on the southbound lanes where the sewer will be improved, and only minimal features on the northbound lanes (curbs, striping), for the purposes of having a complete background for use in the NDOT plan set format requirements. Cross-sections at 50+/- foot intervals in sufficient detail to allow for development of a plan and profile set of design drawings. Topographic information will include centerline spot elevations, grade breaks, edge of pavement and striping, curb/gutter, sidewalk, driveways, flowlines, hinge points, utility poles/anchors, fences, signs, gas and water valves, survey monuments, storm drain and sewer manholes (rim/invert), sewer clean-outs and storm drain catch basins. Location of underground utility carsonite markers (if any) and large/mature trees. Overlay record property and right-of-way information (County GIS) to include assessor's parcel numbers. Measure inverts of manholes drain inlets and top of valve nut for gas and water valves. A Pipe-mic II measuring instrument will be used to accurately measure invert and size of pipes. Horizontal Datum shall be a modified to ground Nevada State Plane Coordinate System, West Zone NAD83/94 (HARN).

Vertical Datum shall be NAVD88 based on digital bar-code leveling circuits to published City benchmarks.

Task 4: Geotechnical Investigation

\$20,845

Perform a geotechnical investigation in order to develop geotechnical design recommendations for the referenced project. J-U-B will utilize Construction Materials Engineers, Inc. (CME) in support of this task. Reference attached proposal from CME dated 1-25-2021 for detailed scope of work, including NDOT permitting, drilling, traffic control, lab testing, analysis and report preparation.

Task 5: NDOT Permitting

\$7,500

J-U-B will set up, prepare for, and attend both a Pre-Design Meeting and a Pre-Submittal desk audit with NDOT. J-U-B will coordinate these meetings with the City of Sparks. Additionally, throughout the course of the permitting effort, we will:

- Perform periodic check-ins with NDOT Encroachment Permit review personnel as related to Sanitary Sewer Design and Roadway restoration. Issues or concerns raised by NDOT will be addressed and incorporated into our design plan set, as necessary, under Task 8.
- Prepare encroachment permit submittal package, including the following:
 - NDOT encroachment application and checklists
 - Sewer Capacity Improvement Plans
 - Roadway restoration plan sheets.
 - Plan Specifications

Assumptions:

We have assumed that any needed traffic control plans will be allowed by NDOT to be deferred until a contractor is awarded contract, and the contractor will provide traffic control plans prepared by an ATSSA certified traffic control supervisor prior to initiating the NDOT permit for construction. Therefore, preparation of traffic control plans is not included with this contract. If NDOT requires that either conceptual, preliminary and/or final traffic control plans are to be included with our permit submittal package (before a contractor is selected), this work will be completed under a separate contract.

Task 6: 50% Plans Production

\$28,500

J-U-B will develop preliminary 50% plans based on the preferred design option. In conformance with City of Sparks, NDOT and Orange Book requirements, as needed. The plans will show the general intent and major elements of the design, including horizontal pipe alignment, preliminary vertical pipe profile, major structures (new manholes), any needed utility conflict resolution and connections to existing manhole structures.

The plan package will consist of the following:

- A. Cover and General Notes Sheets with Vicinity Map, Plan Specifications (General) and Sparks specifications (as-needed), Legend, and Abbreviations
- B. Plan and Profile Sheets
Sheets showing the horizontal and vertical locations of proposed sewer pipes and structures will be prepared for the project. The plan views will show existing surface features and existing utilities as depicted in the topographic survey. The plan will show any needed grading modifications. Design assumption is that the pipe will achieve minimum clearances needed with respect to existing utilities in the vicinity. If potential conflicts arise, or “vulnerable” utilities are within excavation limits (eg. aging transite water mains), offsets, relocations, or replacements will be shown or called-out for further design recommendations.
- C. Surface Restoration
Provide sheet showing street restoration per Sparks, NDOT & Orange Book requirements, as needed. Restoration sheets will display anticipated limits of trench patch, 2-inch mill and overlay and/or full re-construct, striping and concrete restoration based on the limits of removal and replacement of the manholes, pipe and full- and/or half-street limits.
- D. Details
J-U-B will provide details of pipe trench backfill, underground structures such as manholes, permanent patching, and other features, as required.

J-U-B will review the 50% plans with the City of Sparks and incorporate comments into the final design.

Task 7: 90% Plans Production

\$15,600

J-U-B will further develop the plans based on input from the City of Sparks during the 50% review. J-U-B will refine horizontal and vertical locations of pipes and structures, provide additional details (as needed), and will develop a detailed Opinion of Probable Construction Cost (Engineer’s Estimate). J-U-B will submit plans to the City of Sparks. It is assumed that front-end project specifications will be provided by the City of Sparks and NDOT “Silver Book” and/or the Standard Specifications for Public Works Construction (SSPWC “Orange Book”) will be utilized for project technical specifications with minor modifications, as needed, to fit the work. Specifications will be referenced or provided on the plans or for inclusion in the contract documents. Additional specifications are not included in this scope of work.

Task 8: 100%/NDOT Permit Plans

\$20,500

J-U-B will further develop the plans based on input from the City of Sparks during the 90% review. J-U-B will refine horizontal and vertical locations of pipes and structures, provide

additional details (as needed), and will develop a 100% Opinion of Probable Construction Cost (Engineer's Estimate). The 100% Plan set will be submitted to NDOT as part of the encroachment permit application. Plans will be revised, as-needed, per NDOT comments and review until final 100% plans are approved by NDOT.

Task 9: Issue for Bid Plans & Bid Support

\$4,000

After review and approval of the plans by both NDOT and the City of Sparks, J-U-B will provide support for the bidding process. J-U-B shall issue bid documents to prospective bidders, maintain the document holders list, and attend a pre-bid meeting. Other assistance includes issuing addenda and conformed drawings as appropriate, interpreting and/or clarifying the bidding documents; assisting in the evaluation of the bid proposals and recommendation of a contract award. Electronic drawing files of the conformed bid documents can be made available upon request to the successful bidder. J-U-B shall not prepare front-end bid documents, or contracts between the client and contractor/builder.

PHASE 2 – CONSTRUCTION SERVICES

Upon selection of contractor and development of construction schedule, construction management and administration, construction survey (staking) services, assistance with temporary construction easements, Engineer-of-Record inspection, and materials testing services will be provided under a separate contract.

SCHEDULE

We will work with the City of Sparks and NDOT to develop a final schedule that is acceptable to all parties. The general goal of the project is to perform design and permitting late winter through spring and begin construction late summer to early fall. This schedule can be adjusted, as needed, to best suit the needs of the City of Sparks with respect to desired date of substantial completion of construction.

ITEMS PROVIDED BY CLIENT OR OTHERS

It is assumed that Client will provide the following items:

- 1) All fees payable to government entities and utility purveyors/agencies, unless otherwise stated in the Scope of Services.

ADDITIONAL SERVICES

Any items requested not specifically outlined in the above scope will be considered additional services and will be provided as requested and authorized by the Client. J-U-B can provide the following services, however; they are not included in the limited scope of this agreement:

- 1) Phasing of project/separate plan sets
- 2) Traffic control plans for the sewer improvements, if required by NDOT
- 3) Message boards, if required by NDOT and/or City of Sparks during geotechnical investigation drilling/sample collection operations
- 4) Potholing to identify potential critical utility conflicts
- 5) Significant revisions to Plans and/or desired Scope to Reduce Cost after 50% Design
- 6) Analysis or design for other utilities outside of the sewer alignment (storm drain, water and sewer, or other relocations of gas, electrical, fiber, communications) if necessary.

FEE AND BILLING

J-U-B proposes to perform the services in Tasks 1 – 9 of the Scope of Services on a Lump Sum Fee Basis, with reimbursable expenses charged on a Time and Materials Basis (T&M) as follows:

Task 1	Team Meetings & Coordination	\$ 6,000
Task 2	Existing Utility Research	\$ 3,600
Task 3	Topographic Survey & Mapping	\$ 13,000
Task 4	Geotechnical Investigation	\$ 20,845
Task 5	NDOT Permitting	\$ 7,500
Task 6	50% Plans Production	\$ 28,500
Task 7	90% Plans Production	\$ 15,600
Task 8	100%/NDOT Permit Plans	\$ 20,500
Task 9	Issue for Bid Plans & Bid Support	\$ 4,000
	Reimbursable Fees (T&M, not-to-exceed)	\$ 500
	TOTAL Services	\$ 120,045

All permitting, application and similar project fees will be paid directly by the Client, unless otherwise stated in the Scope of Services. Fees and expenses will be invoiced monthly based, as applicable, upon the percentage of services performed or actual services performed, and expenses incurred as of the invoice date. Payment will be due within 30 days of your receipt of the invoice.

CLOSURE

Fees stated in this Agreement are valid for sixty (60) days after the date of this letter.

We look forward to working with the City of Sparks on this important infrastructure project. Please do not hesitate to contact us if you have questions.

Sincerely,

J-U-B Engineers, Inc.



Lonnie J. Johnson, P.E.
Asst. Area Manager

Attachments:

- 2021 J-U-B Rate Schedule
- Project Limits Exhibit
- Sub-consultant - CME Geotechnical Investigation Proposal dated 1-25-2021

FEE SCHEDULE

The following fee schedule will be used for the project. The rates are subject to annual revision.

2021

Labor Category	Hourly Rate
Principal / Program Manager	\$190-\$215
Project Manager	\$170-\$195
Professional Engineer - Senior	\$160-\$190
Professional Engineer	\$135-\$165
Project Designer – Lead	\$120-\$135
CAD Designer - Lead	\$110-\$125
Project Designer	\$100-\$120
Survey PLS – Senior/Discipline Lead	\$165-\$190
Survey PLS - Lead	\$125-\$165
Survey Technician – Lead/Senior	\$100-\$125
Survey Technician	\$70-\$100
Project Financial Advisor	\$75-\$95
Administrative Assistant	\$40-\$55
Direct Costs (Equipment Rental, Sub-consultants, etc.)	Cost+10%
Mileage (outside 35 miles of office)	\$0.56/mile
Copies (8.5x11, 11x17)	\$0.15/copy
Full Size Black & White Plots (24x36, 30x42)	\$1.50/ page
Full Size Color Plots (24x36, 30x42)	\$5.00/ page

Utilities, City of Sparks



Utilities, City of Sparks

600ft

Regional Basemap Committee, Washoe County, City of Sparks | Pictometry, Regional Basemap Committee, Washoe County Assessor, Washoe County, City of Sparks | Regional Base Map Committee, City of Sparks, Washoe County | City of Sparks | Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community | Esri Community Maps Contributors, City of Sparks, BuildingFootprintUSA, Esri, HERE, Garmin, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA



300 Sierra Manor Drive, Suite 1
Reno, NV 89511

Original November 23, 2020
Revision 1 January 25, 2021

Lonnie Johnson, PE
J-U-B ENGINEERS, Inc.
9160 Double Diamond Pkwy
Reno, NV 89521

**RE: Geotechnical Investigation Proposal
 Sewer Line Replacement
 Prater from McCarran to 200ft east
 McCarran from Prater to Greenbrae
 Sparks, Nevada**

Dear Mr. Johnson:

Construction Materials Engineers, Inc. (CME) is pleased to submit the following revised cost proposal to complete a sewer line replacement geotechnical investigation. The project extends along the southbound lanes of North McCarran Boulevard from the McCarran Boulevard and Prater Way intersection to East Greenbrae Drive within Sparks, Nevada. The geotechnical investigation includes open cut trench and structural section design recommendations. Included in this proposal is our understanding of the project, the scope of services we can provide, and an estimate of our fees.

1.0 GENERAL PROJECT DESCRIPTION

Based on our understanding of the project, the project consists of replacing the existing sewer line to increase volume capacity, as summarized in Table 1.

Table 1: Sanitary Sewer Replacement Summary			
Segment	Existing Pipe	Proposed Pipe Type	Depth Range (ft)
E Prater Way from N McCarran Blvd to 200ft east	10-inch diameter asbestos concrete	18-inch diameter RCP, PVC, or HDPE pipe	11 to 14
N McCarran Blvd from E Prater Way to E Greenbrae Drive	24-inch diameter RCP	30-inch diameter RCP or HDPE pipe	13 to 19

The sewer line replacement will be completed using open cut construction techniques. In conjunction with the sewer line replacement, the existing structural section will be reconstructed in the southbound lane which includes the travel lane adjacent to the sewer line trench. A general site plan with exploration locations is presented as Figure 1.

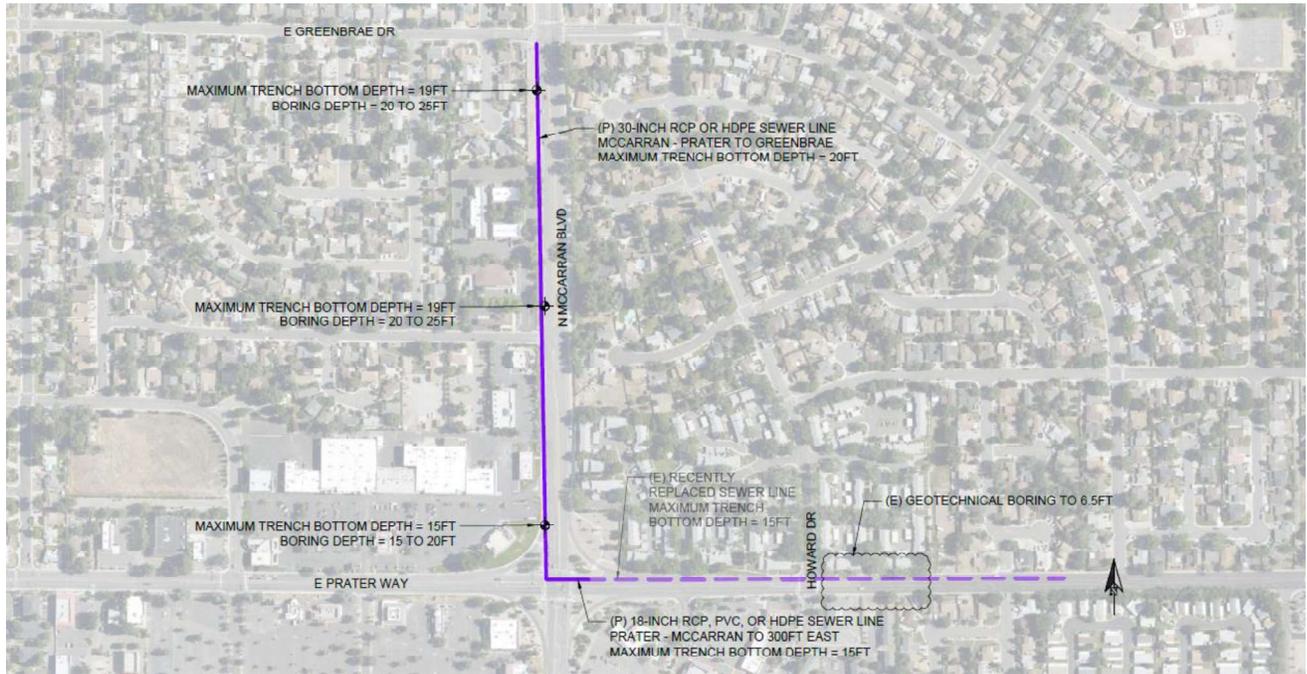


Figure 1: General Site Plan

2.0 SCOPE OF SERVICES

Our geotechnical investigation program includes a literature review such as the recently constructed sewer line replacement project on E Prater Way from N McCarran Boulevard to Sparks Boulevard, subsurface exploration utilizing up to three (3) vertical test borings, laboratory testing, and engineering analysis to allow formulation of geotechnical recommendations for design and construction of this project.

2.1 LITERATURE REVIEW

Prior to initiating the field exploration, our engineer will review published geotechnical reports, geologic maps, fault hazard reports, and soils maps to identify the presence of documented geologic hazards at the site.

2.2 FIELD EXPLORATION

Based on the recent sewer line replacement project located within East Prater Way, where this sewer line will connect, cohesionless sands were encountered. These cohesionless sands promoted trench wall caving and sloughing. To prevent issues related to caving in the exploratory borings, we propose to perform vertical test borings using hollow stem auger techniques. Based on nearby explorations, groundwater is anticipated at approximately elevation 4,390 feet, which is anticipated to be encountered toward the bottom of the trench excavation.

2.2.1 VERTICAL BORINGS

The subsurface field exploration will consist of drilling up to three (3) borings to a depth of 15 up to 25 feet below the existing ground surface, to refusal, or until groundwater effectively prohibits hollow stem auger drilling, whichever comes first. Target drilling depth will be approximately 5 feet below the currently proposed pipe depth as outlined in Figure 1.

The borings will be drilled using a 2-wheel drive drill rig, equipped with hollow-stem auger and automatic hammer. The intent of the exploration is to collect bulk samples of base material and subgrade soils, as well as drive samples of underlying soils for laboratory testing. Bulk samples of base material, if encountered, will be collected. The amount of base material collected will be dependent on the thickness of the material present at the time of our investigation.

Soils encountered in the field will be visually classified in accordance with the Unified Soils Classification System. Samples of the underlying soils will be collected and brought back to our laboratory for testing.

2.2.2 TRAFFIC CONTROL, PERMITS, USA, & WORK HOURS

Traffic control is anticipated to include outside travel lane and right turn lane closures using traffic cones and signs. Flaggers and message boards are not anticipated to be required prior to or during field exploration. Due to recent work with City of Sparks and NDOT, night work is assumed to be required, which results in increased exploration fees. Work hours are assumed to be Sunday through Thursday from 6PM to 6AM. We have budgeted 1 day to complete the field work.

We anticipate that borings will be located within the paved roadway. Borings located within the existing roadway will be backfilled per NDEP if groundwater is encountered or tamped with soil cuttings if groundwater is not encountered and capped using a high strength concrete patch. Excess cuttings resulting from the drilled borings will be hauled off site.

Prior to initiating the subsurface exploration, CME will contact USA dig to determine the location of existing utilities. CME will take standard precautions to lower the risk of damaging underground structures; however, underground exploration is inherently risky as it is not possible to precisely locate all underground structures. Our fee is not adequate to compensate for damage or disruption of service and repair costs. If insufficient or incorrect data results in damage to underground structures, the cost for repair will be the responsibility of the client.

It is assumed an encroachment permit from the City of Sparks and NDOT will be required for this work and the permit fees will be waived. A traffic control plan and set up will be subcontracted through Silver State Barricade & Sign.

It is assumed for the purposes of drilling and traffic control subcontractors this is a non-prevailing wage project.

2.3 LABORATORY TESTING

Laboratory testing will be performed for the pipeline design and construction recommendations, and the pavement structural section design and construction recommendations.

The purpose of the laboratory test program will be to evaluate the engineering and mechanical properties of soil samples collected in the field. We anticipate our laboratory test program will consist of the following:

- Pipeline design and construction recommendations:
 - Testing for index properties including moisture determination, grain size distribution, and plasticity; and
 - Corrosion testing including soluble sulfates for corrosion to concrete.
- Subgrade samples for pavement rehabilitation design and construction recommendations:
 - Up to 3 of each: moisture determination, grain size distribution, and plasticity; and
 - Up to 3 R-value tests for subgrade support characterization.

2.4 REPORT AND ANALYSIS

Upon completion of our field, laboratory and office studies, a Geotechnical Investigation report will be completed for the project and will include the following:

- Description of the project site with the approximate locations of our field explorations, shown on a Site Plan;
- Descriptive logs of the explorations performed for this study;
- General summary of the site soils and geology;
- General summary of the structural section thicknesses observed within the borings. Excludes descriptions of pavement overlays, observed distress, and/or aggregate type used for pavement.
- Discussion of groundwater conditions and potential for dewatering during construction;
- Construction and design recommendations for pipeline replacement:
 - Trench excavatability, backfill, and bottom of trench preparation;
 - Recommendations for trench excavations and shoring requirements as required by soil conditions including anticipated caving and/or sloughing soil conditions;
 - Corrosion potential to concrete of site soils;
 - Dewatering recommendations, if warranted, based on existing groundwater levels;
 - Lateral earth pressures for manhole design; and
 - Foundation recommendations for manhole and/or vault construction.
- Recommended full reconstruct structural section design based on NDOT standards or the *2007 Flexible Pavement Flexible Pavement Design Manual* for native subgrade and trench conditions.
 - Traffic counts will be provided by the client;
 - Truck percentages and axle factors will be based on recommendations from the NDOT Traffic Division in conjunction with the *2009 NDOT Annual Traffic Report*.
- Anticipated construction difficulties.

Any additional work, if required for this investigation, will be billed on a time and materials basis in accordance with our Standard Fee Schedule.

3.0 COST ESTIMATE AND SCHEDULE

We will complete the scope of work outlined in Section 2.0 for an estimated fee outlined in Table 2 (Estimated Fees).

Table 2: Estimated Fees	
Task	Estimated Fees Per Task
USA, Permits, & Coordination	
Coordination	\$ 600.00
USA Dig Clearance	\$ 350.00
Permitting Time (permits fees assumed to be waived)	\$ 550.00
Subsurface Exploration (Night Work Assumed)	
CME Field Engineer to log soils, collect samples including CME vehicle, and field supplies	\$ 2,200.00
Drilling Subcontractor including backfill materials, drill rig, drilling operator, sampling equipment	\$ 6,250.00
Traffic Control Subcontractor including traffic control plans and traffic control	\$ 950.00
Laboratory Testing	\$ 2,850.00
Engineering Analysis & Report Preparation	\$ 4,600.00
Meetings & Consultation (up to 4 hours)	\$ 600.00
Total Estimated Fees: (Time and Materials Not To Exceed)	
	\$18,950.00
Additional Cost for Message Boards (Assume 3 message boards for up to 2 weeks)	
	+\$5,170
NOTES:	
<ol style="list-style-type: none"> 1. Assumes one site mobilization will be required. 2. Estimated fees per task are approximate and may vary slightly from those presented on the table. The total estimated fees budget is "not to exceed" without prior approval from client. 	

Depending on the availability of the drill rig, the field exploration can generally begin within 4 to 8 weeks of receiving written authorization to proceed. Verbal geotechnical recommendations can be provided within 3 weeks following the completion of field exploration. A written report will be available within about 6 weeks after the completion of the field investigation.



J-U-B ENGINEERS, Inc.
Sewer Line Replacement
Prater from McCarran to 300ft east & McCarran from Prater to Greenbrae
Original November 23, 2020
Revision 1 January 25, 2021
Page 6 of 6

We thank you for the opportunity to submit this proposal and look forward to its favorable consideration. If you have any questions, please call.

Sincerely,

CONSTRUCTION MATERIALS ENGINEERS, INC.



39-
Nicholas R. Anderson, P.E.
Geotechnical Project Manager
nanderson@cmenv.com
Direct: 775-737-7583
Cell: 916-705-1959



Randal A. Reynolds
Randal A. Reynolds, P.E.
Senior Geotechnical Engineer
rreynolds@cmenv.com
Direct: 775-737-7576

NRA:RAR:nra
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