

PRIME DESIGN SERVICES CONTRACT FOR WPCF HEADWORKS REHABILITATION PROJECT

THIS CONTRACT is made and entered into this day _____, by and between the CITY OF LAS VEGAS, a municipal corporation within the State of Nevada (herein the "City") whose address is 495 S. Main Street, Las Vegas Nevada 89101, and **HDR ENGINEERING, INC.**, (the "Consultant"), a **Nebraska corporation**, with an address at **6750 VIA AUSTI PARKWAY, SUITE 350, LAS VEGAS, NV 89119**.

PROJECT DESCRIPTION: The Water Pollution Control Facility (WPCF) Headworks Rehabilitation Project will improve various preliminary treatment processes and equipment. Some of which will include, addition of a coarse screen(s) to stop damage to downstream equipment, rehab/replacement of grit removal equipment and enhancements to the existing screenings washer compactor system.

WITNESSETH:

WHEREAS, the City intends to construct the WPCF Headworks Rehabilitation Project (herein the "Project"); and

WHEREAS, the City desires to retain the Consultant who will be responsible for providing the professional services more fully described below and in the exhibits attached hereto; and

WHEREAS, the Consultant is properly licensed pursuant to NRS Chapter 623, 623A, or 625, whichever is legally required for the services to be provided within the State of Nevada, and if applicable to the Consultant's business organization, is in compliance with NRS 623.349 for architects, interior designers, and residential designers and NRS 623A.250 for landscape architects, which requires the Consultant to control and have no less than two-thirds ownership of the business organization or association be held by persons registered or licensed in the State of Nevada pursuant to NRS Chapters 623, 623A, or 625, and possesses the knowledge, skills and experience to perform the services hereinafter set forth within the time required under this Contract;

NOW, THEREFORE, in consideration of the above premises, the parties hereto agree to the following terms, conditions and covenants set forth in Sections One through Ten hereof:

1.0 CONSULTANT RESPONSIBILITIES

- 1.1 Description of Consultant's Services.** For the compensation set forth in Section Seven, the Consultant hereby agrees to perform the basic services set forth in the Scope of Services, Exhibit "A" attached hereto and incorporated herein as a part of this Contract and, if so requested, the additional services set forth in the Compensation, Exhibit "E" attached hereto and incorporated herein as a part of this Contract and to provide the submittals described in the Required Submittals Exhibit "B," attached hereto.
- 1.2 Performance Standards.** In performing the services set forth in this Contract, the Consultant shall follow the practices consistent with the generally accepted standards in the profession of the services being provided to the City pursuant to this Contract.
- 1.3 Document Review.** The Consultant shall review each document prepared by the Consultant and its subconsultants including, without limitation, the plans, drawings and specifications for conformance with quality control requirements,

project standards and applicable federal, state and local laws and other regulations. Consultant shall also review each document for violations or infringements upon any patent rights.

- 1.4 Waiver.** The City's approval of any documents or services furnished by the Consultant shall not in any way relieve the Consultant of responsibility for the professional and technical accuracy of its documents or services. The City's review, approval, acceptance or payment for any of the Consultant's services shall not be construed to operate as a waiver of any rights enjoyed by the City under this Contract or of any cause of action arising out of the performance of this Contract. The Consultant shall remain liable for any damages to the City caused by the Consultant's negligent act or omission committed in the performance of this Contract.
- 1.5 Designation of Consultant's Representative.** The Consultant's representative is the individual identified in the Key Personnel List, Exhibit "F" attached hereto (the "Consultant Representative") to act in that capacity, who shall be responsible for the services required under this Contract. The services specified by this Contract shall be performed by the personnel identified in the Key Personnel List provided that such associates and employees perform under the personal supervision of the Consultant Representative.

If any person or subconsultant who is expected to provide any of the services required under this Contract is objectionable to the City for any reason, the Consultant shall, without any additional compensation, replace such person or subconsultant with someone acceptable to the City.

If the Consultant's personnel are unable to complete their responsibilities for any reason under this Contract, or the Consultant desires for any reason to substitute personnel assigned to the Project, the Consultant agrees to obtain the approval of the City for the substitution. The City shall not unreasonably deny approval unless the City adjudges the substitution to not be in the interest of the City or the Project.

If the Consultant fails to make an acceptable replacement within thirty (30) days, the City may terminate this Contract for default as provided in Section 10.3 of this Contract.

- 1.6 Correspondence Review.** The Consultant shall furnish the City Representative draft copies of each correspondence to be sent to any contractor involved with the Project, and to any regulatory agencies, for approval and review prior to mailing such correspondence.
- 1.7 Cooperation with the City.** The Consultant agrees that its officers, associates, employees and subconsultants will cooperate with the City in providing the services under this Contract and will be, with advance notice, available for consultation with the City at such reasonable times as to not conflict with the City's other responsibilities.
- 1.8 Responsibility for Construction Document Revisions**
- 1.8.1 Applicability.** The Consultant's responsibility described in this Section applies only if the Consultant is responsible for providing a construction cost estimate and preparing construction documents for the Project.
- 1.8.2 Responsibility for Revisions.** The Consultant does not warrant or represent that the bids or proposed price received by the City to construct the Project will come within the estimate prepared by the Consultant. If the bids or proposed price received by the City exceeds the Consultant's estimate, the Consultant agrees to cooperate with the City in revising the requirements of the Project as required to lower the cost and to change the construction documents. If the changes requested by the City cause an increase in the cost or time required to perform any of the services required under this Contract, the Consultant may submit a request for an Adjustment in Compensation pursuant to Section 3.2.

2.0 CITY RESPONSIBILITIES

- 2.1 City Representative.** The Director of Public Works or his authorized representative identified in the Key Personnel List is hereby designated as the City's representative (the "City Representative") with respect to this Contract. The City Representative shall have complete authority to transmit instructions, receive information, interpret and define the City's policies and decisions with respect to the services of the Consultant. The City Representative is not authorized to change or waive any of the provisions set forth in Sections 1.0 through 10.24 of this Contract.
- 2.2 Review of Consultant's Services and Documents.** The services to be performed by the Consultant shall be subject to periodic review by the City Representative. To prevent an unreasonable delay in the Project, the City Representative will endeavor to examine and comment in writing on the documents furnished by the Consultant including, without limitation, the plans, drawings, specifications, test results, evaluations, and reports within twenty-one (21) days of receipt of such documents, unless the Contract provides for a different review time with respect to the document.
- 2.3 Access to Records.** The City shall, without charge, furnish a copy to, or make available for examination or use by, the Consultant, as it may request, any documents and data which the City has available including, without limitation, reports, maps, plans, specifications, surveys, records, ordinances, codes, regulations, and other documents related to the services required under this Contract. The City shall assist the Consultant in obtaining data and documents from public agencies and from private citizens and business firms whenever the City determines that such material is necessary for the completion of the services required by this Contract.
- 2.4 Cooperation with Consultant.** The City agrees that its officers and employees will cooperate with the Consultant in the performance of this Contract and will be, with advance notice, available for consultation with the Consultant at such reasonable times as to not conflict with the Consultant's other responsibilities. The City shall provide access to the Consultant on to the Project site as may be required to perform the services under this Contract.

3.0 CHANGES TO CONSULTANT'S SERVICES

- 3.1 Requested Changes.** The City may at any time, by written order of the City Representative, make a change in the services to be performed by the Consultant under this Contract.
- 3.2 Adjustment of Compensation.** If the change requested by the City causes an increase or decrease in the cost or time required to perform any of the services required under this Contract, an equitable adjustment shall be made in the compensation to be paid to the Consultant under Section Seven, or in the performance schedule under Section Eight, or both, and this Contract shall be modified in writing accordingly. Each claim for adjustment under this Section must be asserted in writing within thirty (30) days from the date of receipt by the Consultant of written notification of the change, unless the City grants in writing an extension. Provided proper notice has been given to the City as required herein, the claim for an adjustment shall be handled pursuant to the provisions of 10.20.2 and 10.20.3 of this Contract. The failure to provide notification of the claim within the time required herein shall constitute a waiver of the right to seek any equitable or legal adjustment in compensation with respect to that change.

4.0 ADDITIONAL SERVICES OF CONSULTANT

- 4.1 Additional Services.** The Consultant shall provide the additional services described in the Additional Compensation if, and only if, so requested in writing by the City. Payment for the additional services will be made to the Consultant in accordance with Section Seven of this Contract.
- 4.2 Attendance at Meetings or Public Hearings.** The Consultant shall notify the City in advance of any estimated additional costs which may be incurred prior to attending any meetings or public hearings as may be necessary in connection with the services performed by the Consultant under this Contract.

5.0 SUBCONSULTANT CONTRACT

- 5.1 Subconsultant Provisions.** If, with the approval of the City as required pursuant to Section 10.7, the Consultant enters into an CONTRACT with a subconsultant for the performance of any of its obligations under this Contract, the Consultant agrees to include in each subconsultant CONTRACT a provision that:
- 5.1.1** the Consultant agrees to pay the subconsultant when paid by the City for that portion of the services provided to the City and that no liability arises on the part of the Consultant for payment of the subconsultant services until payment has been made by the City. If the City has paid the Consultant for the subconsultant services, the subconsultant's only recourse is against the Consultant and not against the City, either through the institution of legal or equitable action or the attachment of any lien,
 - 5.1.2** the subconsultant shall have no more rights against the City than that of the Consultant,
 - 5.1.3** the subconsultant agrees to be bound by the terms, conditions and obligation of this Contract unless the City has approved any deviation, change or modification in writing, and
 - 5.1.4** unless otherwise approved in writing by the City Representative, the subconsultant shall obtain and maintain professional liability insurance (Errors and Omissions coverage) in connection with the subconsultant services in an amount equal to that required of the Consultant in this Contract.

6.0 TERM OF CONTRACT

- 6.1 Term.** This Contract shall commence on the day it is approved by the City (which date shall be inserted in the introductory paragraph of this Contract) and shall remain in force and effect until the Project is completed unless terminated earlier pursuant to Section 10.2 or 10.3 of this Contract. Such termination shall not release either party from any of its continuing obligations under this Contract.
- 6.2 Disputes.** This Section shall not be construed to preclude the filing of any dispute arising out of the performance of this Contract or in connection with the subject matter hereof, nor shall this Section be construed to change the date or the time on which a cause of action arising out of the performance of this Contract or in connection with the subject matter hereof, would otherwise accrue under the statutes of limitation or doctrines of law.

7.0 COMPENSATION AND TERMS OF PAYMENT

- 7.1 Compensation: Basic Services.** For the services to be performed by the Consultant under this Contract and set forth in the Scope of Services, the City agrees to pay the Consultant on the basis of Consultant's direct salary, times a Multiplier, as defined in Section 7.2 plus City approved reimbursable expenses identified in Section 7.4. In no event shall the fee exceed the fee identified in the Fee Breakdown, Exhibit "D" and direct salary rates, Exhibit "E," attached hereto, pursuant to invoices submitted in accordance with Section 7.5 of this Contract.
- 7.2 Multiplier. Exhibit D, Section 401.1.** provides the multiplier established for this contract. The multiplier includes costs associated with, but not limited to: overhead, general and administrative costs, profit, vehicles, printing, and travel, unless directly identified as reimbursable per Contract Section 7.4 and Exhibit E. Documentation used to establish this multiplier is considered part of the project records and shall be maintained in accordance with Section 9.1.
- 7.3 Compensation: Additional Services.** For any services not set forth in the Scope of Services, the City shall pay to the Consultant on the basis of Consultant's direct salary, times the multiplier set forth in Exhibit D in accordance with Exhibit E, provided prior written approval for such services is given by the City Representative.
- 7.4 Compensation: Reimbursable Expenses.** Direct reimbursable expenses incurred by the Consultant for work performed under this Contract eligible for reimbursement include subconsultant or subcontractor services (provided the Owner has authorized, in writing, said services) and additional line items specified in Exhibit E. The Consultant agrees that all of its authorized reimbursable expenses associated with the performance of this Contract shall be billed at the actual cost incurred by the Consultant without mark-up of any kind.
- 7.5 Payment Invoicing.** The Consultant shall submit an invoice for payment for the services provided by the Consultant based on the manner or method of payment set forth in Exhibit A, Section 101 (Preliminary and General Items and

Exhibit D (Fee Breakdown). The City Representative will notify the Consultant of any problems regarding the invoice within fourteen (14) days from receipt thereof. If no response is received from the City Representative within the aforementioned period of time, the Consultant may expect payment within a period of thirty (30) days from the date of receipt by the City. If payment has not been received within the thirty (30) days, the Consultant agrees to contact the City Representative to resolve the problem causing the delay. If resolution of the delay is not satisfactory to the Consultant, the Consultant may submit a claim pursuant to Section 10.20.1 of this Contract.

7.6 Right to Off-Set. The City Representative may subtract or offset from any unpaid invoice from the Consultant any claims, which the City may have incurred for failure of the Consultant to comply with the terms, conditions or covenants of this Contract, or any damages, costs and expenses caused by, resulting from, or arising out of the negligent act or omission of the Consultant in the performance of the services under this Contract including, without limitation, any error or deficiency in the report or other documents prepared by the Consultant. Within seven (7) days, the City Representative shall provide a written statement to the Consultant of the off-set which has been subtracted from any payment to the Consultant along with appropriate documentation and receipts, if any, and a description of the failure, error or deficiency attributed to the Consultant. The Consultant may dispute the right or amount of the off-set made by the City by providing written notification to the City within fourteen (14) days after receipt of the City's written notice. The City Representative shall provide a written response to the Consultant within seven (7) days of receipt of the Consultant's written dispute notice. If the Consultant disputes the City Representative's determination, the Consultant may file a claim pursuant to Section 10.20 of this contract. Should the City's damages, costs or expenses arising out of the negligent act, error or omission of the Consultant exceed the off-set amount retained by the City, the City reserves all rights and remedies under law and equity to recover any damages, costs or expenses arising out of the negligent act, error or omission of the Consultant.

7.7 Final Payment. Upon completion of the services required under this Contract, and acceptance thereof by the City (which acceptance will not be unreasonably withheld), the Consultant will, within sixty (60) days of the City's acceptance, be paid the balance of any money due for such services.

8.0 PERFORMANCE SCHEDULE

8.1 Performance Schedule. The Consultant shall perform and complete the services required under this Contract according to the schedule (the "Performance Schedule") set forth in the Schedule of Performance, Exhibit "C" attached hereto. If the performance of services is delayed or submittals are not delivered in the time period as outlined in the Performance Schedule, the Consultant shall notify the City Representative in writing of the reasons for the delay and include a plan which brings the Consultant's performance into compliance with the Performance Schedule.

9.0 AUDIT: ACCESS TO RECORDS

9.1 Records. The City shall have the right to audit the Consultant's books, records and other documents directly pertinent to hourly fees or reimbursable expenses invoiced to City hereunder. The Consultant agrees to maintain books, records and other documents directly pertinent to performance of this Contract in accordance with generally accepted accounting principles and practices. The Consultant shall also maintain the financial information and data used to prepare or support the invoices submitted to the City. Audits conducted pursuant to this provision shall be in accordance with generally accepted auditing standards, procedures and guidelines of the City, or its designated representative. The City, or its duly authorized representatives, shall have access to such books, records, and documents for the purpose of inspection, audit and copying. The Consultant will provide proper facilities for such access and inspection.

9.2 Disclosure. The Consultant shall be afforded the opportunity for an audit entrance and exit conference and an opportunity to comment and submit any supporting documentation on the pertinent portions of the draft audit report, and that the final audit report will include the written comments, if any, of the Consultant.

9.3 Period of Maintenance. The books, records and other documents under Sections 9.1 and 9.2 of this Contract shall be maintained for six (6) years after the date of the final payment for the services under this Contract. In addition, those

records and other documents which relate to any arbitration, litigation or the settlement of any claim arising out of this Contract, or to which an audit exception has been taken, shall be maintained and made available until three (3) years after the date that the arbitration, litigation or exception has been resolved.

- 9.4 Subcontract Provisions.** The Consultant agrees to include Sections 9.1 through 9.3 of this Contract in all its subcontracts directly related to performance of services specified in this Contract which are in excess of \$10,000.

10.0 MISCELLANEOUS PROVISIONS

- 10.1 Suspension.** The City may suspend, without cause, the performance by the Consultant under this Contract for such period of time as the City, in its sole discretion, may prescribe by providing written notice to the Consultant. The suspension shall be effective as of the date set forth in the written notice. With such suspension, the City agrees to pay to the Consultant the amount of compensation, based on work performed and accepted by the City, earned as of the effective date of suspension less all previous payments. The Consultant shall not provide any further services under this Contract after the effective date of suspension until otherwise notified in writing by the City. In no event shall the City be liable to the Consultant for services in excess of the actual hourly wages or reimbursable costs directly related to execution of the Contract at the time of suspension.

If, after notice to resume performance has been given by the City, the suspension was for a period in excess of ninety (90) days, which has resulted in an increase in the performance of this Contract to the Consultant and:

- 10.1.1** the Consultant was not a contributing cause for the suspension,
- 10.1.2** the Consultant has not received an equitable adjustment under another provision of this Contract, and
- 10.1.3** the Consultant could not mitigate the increase in the performance cost,

then the Consultant's fee shall be reviewed by the City and, if justified, equitably adjusted to provide for any additional expenses resulting from the suspension.

- 10.2 Termination for Convenience.** The City reserves the right to terminate this Contract without cause or default on the part of the Consultant with ten (10) days' prior written notification to the Consultant served pursuant to Section 10.18 of this Contract. In the event of termination, without cause or default, the City agrees to pay to the Consultant the reasonable value for the services performed as of the date that notification of termination is received by the Consultant. In no event shall the City be liable to the Consultant for services in excess of the percentage completed at the time of termination.

10.3 Termination for Cause or Other Resolution.

- 10.3.1 Default.** The occurrence of any of the following events shall constitute a default by the Consultant hereunder (herein "Event of Default"). If, during the term of this Contract, the Consultant:

10.3.1.1 defaults in the due observance and performance of any term, condition or covenant contained in this Contract, and default is not cured within ten (10) days of Consultant's receipt of written notice of such default.

10.3.1.2 (i) voluntarily terminates operations or consent to the appointment of a receiver, trustee or liquidator of the Consultant for all or a substantial portion of its assets, (ii) is adjudicated bankrupt or insolvent or files a voluntary petition in bankruptcy, or admits in writing the inability to pay its debts as they become due, (iii) make a general assignment for the benefit of creditors, (iv) file a petition or answer seeking reorganization or an arrangement with creditors or take advantage of any insolvency law, or (v) if action shall be taken by the Consultant for the purpose of effecting any of the foregoing,

10.3.1.3 allows any warrant, execution or other writ to be issued or levied upon any property or assets of the Consultant which continues unvacated and in effect for a period of thirty (30) days, or

10.3.1.4 fails, in the judgment of the City, to provide the services hereunder properly and with proper dispatch in accordance with the time schedule set forth in this Contract, and the default continues five (5) days after written notice is given to the Consultant pursuant to Section 10.18.

10.3.2 City's Rights. Upon the occurrence of an Event of Default, and without prejudice to any other right or remedy it may have at law or equity, the City may:

10.3.2.1 terminate this Contract, suspend payment of all pending invoices otherwise due to the Consultant hereunder, and finish this Contract by such means as deemed appropriate by the City, reserving the right to deduct from any balance due Consultant any additional cost for completing this Contract. In the event the cost of finishing the Consultant's performance of this Contract exceeds the balance due the Consultant, the excess shall be paid by the Consultant to the City within thirty (30) days of invoicing by the City,

10.3.2.2 terminate this Contract, and the obligations imposed hereunder, including the obligation of any further payment for the services of the Consultant except for the reasonable value for the services performed to the date of termination, or

10.3.2.3 continue with performance by the Consultant and serve within a reasonable time after completion of the Contract a notice of claim or dispute pursuant to the procedure set forth in Section 10.20. In the event that the City elects to implement 10.3.2.1 above, the costs and expenses of completing this Contract shall be computed and audited by the City's designated representative. The audit shall be conducted in accordance with generally accepted accounting principles and the cost thereof shall be paid by the City.

10.4 Ownership of Documents

Upon full payment for services satisfactorily rendered, the Consultant agrees that all documents of any kind whatsoever, and in whatever medium expressed, prepared by the Consultant and the Consultant's subconsultants in connection with the Project or otherwise pursuant to this Contract (collectively, the "Documents") and all rights therein (including without limitation trademarks, trade names, rights or use and reuse, copyrights and/or all other proprietary rights) shall be and remain the sole property of the City (regardless of whether the City or Consultant terminates this Contract for any reason whatsoever). The Consultant hereby agrees that the Documents are or shall be deemed to be "Works for Hire" within the meaning of Section 101 of the Copyright Act, and the Consultant hereby assigns to the City all right, title, and interest therein. If for any reason the Documents should not be considered a "Work for Hire" under applicable law by a court or other tribunal of competent jurisdiction, then it is mutually agreed that that under this Section 10.4, the Consultant shall hereby be deemed to have transferred to the City, its successors and assigns, the Consultant's entire right, title and interest in and to the Documents and the legal rights therein including, but not limited to, copyright, included therein.

The Consultant further agrees that neither it nor any of its employees shall exercise any of the rights embodied in the copyrights in or to such Documents, unless authorized to do so by the City under the terms of a separate written Contract executed by the Consultant and the City. The Consultant shall place a conspicuous notation upon each such Document that indicates that the copyright thereto is owned by the City.

City agrees to waive any and all claims against the Consultant and to defend, indemnify, and hold the Consultant harmless from and against any and all claims, losses, liabilities and damages arising out of or resulting from the City's use, reuse, or alteration by any new consultant or other agent of the City, of the Documents. The Consultant shall be entitled to retain a reproducible copy of the Documents furnished to the City; however, the Consultant shall not sell, license, or otherwise market the Documents in any way.

10.4.1 Delivery of Documents.

10.4.1.1 In the event of the completion of this Contract and upon the City's payment in the services rendered by the Consultant, the City shall have the right to require delivery of any and all of the plans, drawings,

specifications, and all other documents (including, without limitation, design concepts and sketches, test results, evaluations, reports and studies), including the magnetic or electronic media of the aforementioned documents, not in the possession of the City.

10.4.1.2 In the event of the suspension or termination of this Contract, the Consultant shall have the right to invoice the City to request full payment for all services performed or furnished in accordance with this Contract through the suspension or termination date. Any dispute regarding the amount of any payment to be made by the City under this Contract shall not diminish, restrict or limit the right of the City to promptly receive delivery of any and all plans, drawings, specification, and all other documents (including without limitation, design concepts and sketches, test results, evaluations, reports and studies), including the magnetic or electronic media of the aforementioned documents, not in possession of the City. The Consultant may file a claim pursuant to Section 10.20 of this Contract for any disputed payment claims.

10.4.2 Confidentiality. The plans, drawings, specifications and other documents (including, without limitation, design concepts and sketches, test results, evaluations, reports and studies) (including the magnetic or electronic media of the aforementioned documents) which are prepared or assembled by the Consultant, or its subconsultants, under this Contract shall not be made available to any individual or organization without the prior written consent of the City. Except for marketing pamphlets and submittals to clients, the Consultant shall not publish, submit for publication, or publicly display the Project without the written consent of the City. The obligations of confidentiality shall survive the termination of this Contract.

10.4.3 Contractual Rights. Notwithstanding the provisions of 10.4.2 above, the City is hereby licensed to use all design concepts developed by the Consultant and subconsultants under this Contract, including the right to construct derivative works of the Project, and to use the design concepts for other projects of the City. Provided, that however, none of the documents or materials are intended or represented by Consultant to be suitable for reuse by the City, or others on extension of the project or on any other project. Any reuse without written verification or adaptation by Consultant for the specific purpose intended will be at City's sole risk and without liability or legal exposure to Consultant. The City agrees to indemnify, defend and hold harmless Consultant for any claims related to the City's or City's authorized use of the design concepts developed by the Consultant. The design concepts include, but are not limited to, the form, aesthetic appeal, site layout, the arrangement and composition of spaces and elements, the use of colors and materials, system designs, construction methods and interior design.

10.5 Insurance

The Consultant shall procure and maintain, at its own expense, during the entire term of the Contract, the following coverage(s):

10.5.1 Industrial/Workers' Compensation Insurance protecting the Consultant and the City from potential Consultant employee claims based upon job-related sickness, injury, or accident, during performance of this Contract, and must submit proof of such insurance on a certificate of insurance issued by an insurer qualified to underwrite workers' compensation insurance in the State of Nevada, in accordance with NRS 616A-616D, inclusive. The Consultant's Workers' Compensation policy shall have a waiver of subrogation endorsement in favor of the City of Las Vegas.

10.5.2 Commercial General Liability Insurance (bodily injury, property damage) with respect to the Consultant's agents assigned to the activities performed under this Contract in a policy limit of not less than One Million Dollars (\$1,000,000) per occurrence and Two Million Dollars (\$2,000,000) in the aggregate, for bodily injury, products, completed operations, personal injury and property damages. Such coverage shall be on an "occurrence" basis and not on a "claims made" basis, and be provided on either a Commercial General Liability or a Broad Form Comprehensive General Liability (including a Broad form CGL endorsement) insurance form. The form must be written on an ISO Form CG 00 01 10 01, or an equivalent form. The Consultant's General Liability policy shall have a waiver of subrogation endorsement in favor of the City of Las Vegas, and shall be endorsed to include the City, its officers, and employees as additional insured.

- 10.5.3 Commercial Automobile Liability Insurance** of limits no less than One Million Dollars (\$1,000,000) combined single limit per accident and in the aggregate for bodily injury and property damage to include, but not be limited to, coverage against all insurance claims for injuries to persons or damages to property which may arise from services rendered by Consultant and any auto used in the performance of services under this Contract. The policy must insure all vehicles owned by the Consultant and include coverage for hired and non-owned vehicles. If the services requested do not require the use of the vehicle to perform, the Commercial Automobile Liability Insurance requirements as described in this paragraph do not apply. The Consultant's Automobile Liability policy shall have a waiver of subrogation endorsement in favor of the City of Las Vegas, and shall be endorsed to include the City, its officers, and employees as additional insured.
- 10.5.4 Professional Liability Insurance** (Errors and Omissions Coverage). This insurance shall protect the Consultant from claims arising out of performance of professional services caused by a negligent act, error, or omission for which the insured is legally liable. Such coverage shall be in a minimum amount of \$1,000,000 per claim and in the aggregate for the period of time covered by this Contract.
- 10.5.5** The Consultant must provide compliant certificates of insurance and required endorsements to the City or its designated certificate tracking service immediately upon request. The Consultant shall maintain coverage for the duration of this Contract, and any renewal periods if applicable. The Consultant shall annually provide the City's designated certificate tracking service with a certificate of insurance and endorsements as evidence that all insurance requirements have been met. A redacted copy of each of the insurance policies (including renewal policies) required under this Section shall be provided to the City or its designated certificate tracking service if so requested.
- 10.5.6** All required aggregate limits must be disclosed and amounts entered on the certificate(s) of insurance. The certificates must identify the Contract number and the Contract description. The Consultant and/or insurance carrier shall provide the City with a 30-day advance notice of a cancellation or material modification in policy coverage, sent by certified mail "return receipt requested".
- 10.5.7** The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer and licensed by the State of Nevada. Each insurance carrier's rating as shown in the latest Best's Key Rating Guide shall be fully disclosed and entered on the required certificate of insurance. The City requires insurance carriers to maintain a Best's Key minimum rating of A- VII, A- VIII, A- IX, A- X, or higher. The adequacy of the insurance supplied by the Consultant, including the rating and financial health of each insurance carrier providing coverage, is subject to the approval of the City.
- 10.5.8** All deductibles and self-insurance retentions shall be fully disclosed in the certificate of insurance. No deductible or self-insured retention (with the exception of professional Liability Insurance) may exceed Twenty-Five Thousand (\$25,000) without the prior written approval of the City. The deductible or self-insured retention for professional Liability Insurance shall not exceed One-Hundred Thousand (\$100,000) without the prior written approval of the City.
- 10.5.9** If the Consultant fails to carry the required insurance, the City may (i) order the Consultant to stop further performance hereunder, declare the Consultant in breach, pursuant to Section E-5, terminate the Contract if the breach is not remedied, or (ii) purchase replacement insurance and withhold the costs or premium payments made from the payments due to the Consultant or charge the replacement insurance costs back to the Consultant.
- 10.5.10** Any subcontractor or subconsultant approved by the City shall be required to procure, maintain and submit proof of insurance to the City of the same insurance requirements as specified above, and as required in this paragraph.
- 10.5.11** The Consultant is encouraged to purchase any additional insurance it deems necessary.
- 10.5.12** The Consultant is required to remedy all injuries to persons and damage or loss to any property of the City caused in whole or in part by the negligent acts, errors or omissions of Consultant, its subcontractors or anyone employed, directed or supervised by the Consultant.
- 10.5.13 Period of Coverage.** If the insurance coverage is underwritten on a "claims made" basis, the retroactive date shall be prior to or coincident with the date of this Contract and the Certificate of Insurance shall state that coverage is "claims made" and the retroactive date. The Consultant shall maintain all insurance coverages specified in Section 10.5 for the duration of this Contract. Claims made insurance (Professional Liability-10.5.4) shall be kept in place after construction of the Project is substantially complete until the "Statute of Repose" in the State of Nevada has expired. In the event if a claims made policy has a lapse or cancellation of coverage before the Statute

of Repose has expired, the Consultant shall be responsible for any claim made in the absence of valid collectable insurance.

10.6 Indemnity

10.6.1 Claims Not Based Upon or Arising out of Professional Services. Notwithstanding any of the insurance requirements set forth in Section 10.5, and not in lieu thereof, the Consultant shall defend, indemnify, and hold the City, its Mayor, Councilmen, officers, employees, and agents (herein the "Indemnities"), harmless from any and all claims (including, without limitation, patent infringement, and copyright claims), damages, losses, expenses, suits, actions, decrees, judgments, arbitration awards, or any other form of liability (including, without limitation, reasonable attorney fees and court costs) (collectively herein the "Claims") to the extent that such Claims are caused by the negligence, errors, omissions, recklessness, or intentional misconduct of the Consultant, its employees, subcontractors, agents, or anyone employed by the Consultant's subcontractors or agents (herein the "Consultant Parties"), which are not based upon or arising out of the professional services performed by the Consultant Parties in the performance of this Contract.

As part of its obligation hereunder, the Consultant shall, at its own expense, defend the Indemnitees against the Claims brought against them, or any of them, which is caused by the negligence, errors, omissions, recklessness, or intentional misconduct of the Consultant, its employees, subcontractors, or agents, for and against which the Consultant is obligated to indemnify the Indemnitees pursuant to this Section, unless the Indemnitees, or any of them elect to conduct their own defense which, in such case, shall not relieve the Consultant of its obligation of indemnification set forth herein. If the Consultant or the Consultant's insurer fails to defend the Indemnities as required herein, the Indemnitees shall have the right, but not the obligation, to defend the same and, if the Consultant is adjudicated by the trier of fact to be liable, the Consultant agrees to pay the costs of such defense (including reasonable attorney fees and court costs) which is proportionate to the liability of the Consultant.

10.6.2 Claims Based Upon or Arising out of Professional Services. Notwithstanding any of the insurance requirements set forth in Section 10.5, and not in lieu thereof, the Consultant shall indemnify and hold the Indemnities, harmless from any and all claims (including, without limitation, patent infringement and copyright claims), damages, losses, expenses, suits, actions, decrees, judgments, arbitration awards, or any other form of liability (including, without limitation, reasonable attorney fees and court costs) (collectively herein the "Professional Liability Claims") to the extent that such Professional Liability Claims are caused by the negligent acts, errors or omissions, recklessness, or intentional misconduct of the Consultant Parties, which are based upon or arising out of the professional services performed by the Consultant Parties in the performance of this Contract.

If the Consultant Parties are 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 the Consultant to the Owner, as reimbursement for the attorney's fees and costs incurred by the Owner in defending the Professional Liability Claims, in an amount proportionate to the liability of the Consultant.

As used in this Section 10.6, "agents" means those persons who are directly involved in and acting on behalf of the City or the Consultant, as applicable, in furtherance of the contract or the public work to which the Contract pertains.

10.7 Assignment. The City and the Consultant each bind itself and its partners, successors, administrators and assigns to the other party of this Contract and to the partners, successors, executors, administrators and assigns of such other party in respect to all covenants of this Contract, except the Consultant shall not assign, sublet or transfer any obligation or benefit under this Contract without the written consent of the City. Nothing contained herein shall be construed as creating any personal liability on the part of any officer or agent of the City.

10.8 Waiver. No consent or waiver, express or implied, by either party to this Contract, or of any breach or default by the other in the performance of any obligations hereunder, shall be deemed or construed to be a consent or waiver of any

other breach or default by such party hereunder. Failure on the part of any party hereto to complain of any act, or failure to act of the other party, or to declare that other party in default hereunder, irrespective of how long such failure continues, shall not constitute a waiver of the rights of such party hereunder. Inspection, payment, or tentative approval or acceptance by the City or the failure of the City to perform any inspection hereunder, shall not constitute a final acceptance of the work or any part thereof and shall not release the Consultant of any of its obligations hereunder.

10.9 Consultant Warranties. The Consultant hereby represents and warrants that:

- 10.9.1** it is financially solvent, able to pay its debts as they mature, and is possessed of sufficient working capital to complete this Contract; that it is experienced, competent, qualified and able to furnish the plant, tools, materials, supplies, equipment and labor which is used to perform the services contemplated by this Contract, and that it is authorized to do business in the City of Las Vegas and the State of Nevada,
- 10.9.2** it holds a license, permit or other special license to perform the services included in this Contract, as required by law, or employs or works under the general supervision of the holder of such license, permit or special license,
- 10.9.3** its computer hardware, software, and firmware will continue functioning without interruption, and will continue to accurately process date, time, and data necessary to the performance of this Contract, and
- 10.9.4** it has, pursuant to the requirements of Resolution 79-99 adopted by the City Council on August 4, 1999, (effective October 1, 1999), as amended by resolution 105-99 (adopted by the City Council on November 17, 1999), disclosed on the form attached hereto as Exhibit "H" (Disclosure of Ownership/Principals) all of the principals, including partners, of the Consultant, as well as all persons and entities holding more than a one percent (1%) interest in the Consultant or any principals of the Consultant. If the Consultant, or its principals or partners, are required to provide disclosure under federal law (such as Securities and Exchange Commission or the Employee Retirement Income Act) and current copies of such federal disclosures are attached to Exhibit "H," the requirements of this Section shall be deemed satisfied. During the term of this Contract, the Consultant shall notify the City in writing of any material change in the above disclosure on Exhibit "H" within fifteen (15) days of such change.

10.10 Consultant's Employees. The Consultant shall be responsible for maintaining satisfactory standards of competency, conduct and integrity, of personnel assigned to the Project, and shall be responsible for taking such disciplinary action with respect to such personnel as may be necessary. In the event the Consultant fails to remove any employee from the work of this Contract whom the City deems incompetent, careless or insubordinate, or whose continued employment on the work is deemed by the City to be contrary to the public interest, the City reserves the right to require such removal as a condition for the continuation of this Contract.

10.11 Independent Contractor. It is hereby expressly agreed and understood that in the performance of the services required herein, the Consultant and any other person employed by him hereunder shall be deemed to be an independent contractor and not an agent or employee of the City.

10.12 Applicable Law. This Contract shall be construed and interpreted in accordance with the laws of the State of Nevada.

Compliance with Laws. The Consultant shall in the performance of its obligations hereunder comply with all applicable laws, rules and regulations of all governmental authorities having jurisdiction over the performance of this Contract including, without limitation, the Federal Occupational Health and Safety Act and all state and federal laws prohibiting and/or related to discrimination by reason of race, sex, age, religion or national origin.

10.13 Certification – No Israel Boycott. By signing this Contract, Company certifies that, at the time of Contract signature, it is not engaged in, and agrees for the duration of the Contract, not to engage in a boycott of the State of Israel.

"Boycott of Israel" means, refusing to deal or conduct business with, abstaining from dealing or conducting business with, terminating business or business activities with or performing any other action that is intended to limit commercial relations with Israel; or a person or entity doing business in Israel or in territories controlled by Israel, if such an action is taken in a manner that discriminates on the basis of nationality, national origin or religion. It does not include an action which is based on a bona fide business or economic reason; is taken pursuant to a boycott against a public entity of

Israel if the boycott is applied in a nondiscriminatory manner; or is taken in compliance with or adherence to calls for a boycott of Israel if that action is authorized in 50 U.S.C. § 4607 or any other federal or state law.

10.14 Severability. In the event that any provisions of this Contract shall be held to be invalid or unenforceable, the remaining provisions of this Contract shall remain valid and binding on the parties hereto.

10.15 Confidentiality. The Consultant shall treat the information relating to the Project, which has been produced by the Consultant or provided by the City, as Confidential Information of the City and shall not permit its release to other parties or make any public announcement or publicity release without the City's written authorization. The Consultant shall also require each subconsultant to comply with this requirement. The submission or distribution of documents to meet official regulatory requirements or for similar purposes in connection with the Project is not to be construed as publication relieving the Consultant of its confidentiality obligation imposed herein.

10.15.1 Definition. The term "Confidential Information" shall mean any confidential or proprietary business, technical, financial or other non-public information or materials in a tangible or electronic format of a party ("Disclosing Party") provided to the other party ("Receiving Party") in connection with the Project, whether orally or in physical form, that is not generally known or available to others and shall include the terms of this Contract. However, Confidential Information shall not include information (i) previously known by Receiving Party without an obligation of confidentiality; (ii) acquired by Receiving Party from a third party which was not, to Receiving Party's knowledge, under an obligation of confidentiality; (iii) that is or becomes publicly available through no fault of Receiving Party; or (iv) that Disclosing Party gave written permission to Receiving Party to disclose, but only to the extent of such permitted disclosure.

10.15.2 Requirements. Except as required by applicable law, each Receiving Party agrees that (i) it will use Confidential Information of Disclosing Party solely for the purpose of the Agreement; and (ii) it will not disclose the Confidential Information of the Disclosing Party to any third party other than the Receiving Party's employees or agents, on a need-to-know basis, who are bound by obligations of nondisclosure and restricted use at least as strict as those contained herein, provided that Receiving Party remains liable for any breach of the confidentiality provisions of this Contract by its employees or agents. The Receiving Party will protect the Confidential Information of the Disclosing Party in the same manner that it protects the confidentiality of its own proprietary and confidential information, but in no event using less than a reasonable standard of care. In the event Receiving Party receives a subpoena or other administrative or judicial demand for any Confidential Information of Disclosing Party, Receiving Party will give Disclosing Party prompt written notice of such subpoena or demand and allow Disclosing Party to assert any available defenses to disclosure. Upon request by Disclosing Party, Receiving Party will return or destroy all copies of any Confidential Information of the Disclosing Party. Confidential Information will at all times remain the property of the Disclosing Party. The provisions of this Section will expire three (3) years after the expiration or termination of the Agreement, except with respect to Confidential Information that constitutes "trade secrets" under applicable law for which this Section shall survive indefinitely.

10.15.3 Nevada Public Records Act. Consultant acknowledges that City is a government entity subject to the public records laws of the State of Nevada as set forth in Chapter 239 of the Nevada Revised Statute ("NPR") and that certain Confidential Information may be subject to the NPR. Therefore, notwithstanding anything to the contrary contained in this Agreement or that (i) the City is subject to the requirements and obligations for disclosure of the NPR; (ii) certain records of the City are subject to inspection and reproduction by the general public, Consultant shall nevertheless continue to treat all Confidential Information confidential pursuant to the terms of this Agreement. Consultant, therefore agrees (i) that any disclosure of Confidential Information by the City pursuant to the NPR shall not be a violation, waiver, and/or a default whatsoever of this Agreement by the City; and (ii) any disclosure of Confidential Information by the City pursuant to the NPR is permitted under this Agreement and shall not waive or relieve Consultant's ongoing contractual obligations under this Agreement. For the avoidance of doubt, any Confidential Information disclosed by the City pursuant to the NPR shall still remain subject to the confidentiality obligations stated in this Agreement. In the event City receives any subpoena, demand, or request under the NPR or other public records law for any Confidential Information or other data or information received by City from Consultant that was received in connection with any services performed by Consultant, City will immediately notify Consultant of such subpoena, demand or request and reasonably cooperate with any efforts by Consultant to

assert any available defenses to disclosure. In no event shall City make disclosure of such information before ten (10) business days have elapsed from the date City notifies Consultant of the subpoena, demand, or request in order to provide Consultant with a reasonable opportunity to seek judicial intervention concerning the potential disclosure of Consultant's Confidential Information and/or trade secret information. If Consultant informs City in writing of Consultant's intent to seek a court order barring disclosure, City agrees to withhold the requested information, to the extent permitted by the NPRA, pending court resolution of the matter, or interim order by a court. Whenever a requesting party pursues legal action to compel disclosure of Confidential Information or other data or information received by City from Consultant, Consultant will bear responsibility for all costs of defending such legal action.

10.16 Site Inspection. The Consultant represents that it has visited the location of the Project and has satisfied itself as to the general condition thereof and that the Consultant's compensation as provided for in this Contract is just and reasonable compensation for performance hereunder including reasonably foreseen and foreseeable risks, hazards and difficulties in connection therewith based on such above-ground observations.

10.17 Modification. All modification, amendments, and change orders to this Contract are null and void unless reduced in writing and signed by the parties hereto.

10.18 Notice. Any written notice required to be given under Sections 1.0 through 10.24 of this Contract shall be deemed to have been given when the written notice is (i) received by the party to whom it is directed by personal service or (ii) deposited with the United States Postal Service, postage prepaid, addressed to the City Representative or the Consultant Representative, whomever is the proper recipient, and mailed to the address set forth in the introductory paragraph to this Contract.

10.19 Prohibition Against Contingent Fees. The Consultant warrants that no person or entity has been employed or retained to solicit or secure this Contract with the agreement or understanding that a commission, percentage, brokerage or contingent fee would be paid to that person. For breach or violation of this provision, the City shall have the right to annul this Contract without liability or, in its discretion, to deduct from the compensation to be paid to the Consultant, or otherwise recover, the full amount of such commission, percentage, brokerage or contingent fee.

10.20 Claim or Dispute Resolution

10.20.1 Notice of Claim or Dispute. For each claim or dispute which the Consultant has against or with the City (except for any claim for an equitable adjustment under Section 3.2 which is subject to the 30-day limitation set forth therein), notice thereof must be submitted in writing to the City Representative within a reasonable time after the claim or dispute arises, but no later than thirty (30) days after final payment is made to the Consultant. The purpose of written notification is to place the City on notice so that proper measures can be taken to properly defend against the claim or dispute, and the failure to give such notice shall preclude the Consultant from subsequently mediating that particular claim or dispute pursuant to Section 10.20.3 of this Contract, and the Consultant shall have no further recourse against the City. Pending a final decision on the claim or dispute under Sections 10.20.2 or 10.20.3, the Consultant shall proceed diligently with the performance of this Contract.

10.20.2 Resolution by Management. The City Representative and the Consultant Representative shall meet within a reasonable time after receipt of the written notice received pursuant to Section 10.20.1 in an attempt to resolve the claim or dispute to the mutual satisfaction of the parties. If the matter is not disposed of by mutual agreement between the City Representative and the Consultant Representative, the claim or dispute shall be decided by the Director of Public Works, whose decision shall be reduced to writing and mailed or otherwise furnished to the Consultant. The decision of the Director of Public Works shall be the final administrative ruling unless, the Consultant mails or otherwise furnishes to the Director of Public Works a written request to mediate the claim or dispute, in which event the parties shall proceed pursuant to provisions of Section 10.20.3. The failure to make such request shall preclude the Consultant from proceeding any further on the claim or dispute, and the Consultant shall have no further recourse against the City.

10.20.3 Resolution by Mediation. Upon receipt of the request to mediate authorized pursuant Section 10.3.2 or Section 10.20.2, the City and the Consultant shall come to an agreement as to the appointment of a mediator for purposes of hearing the appeal. If the parties cannot agree upon an independent private mediator within 45 days after notice of the receipt of the request to mediate, the party may proceed to file a judicial action with the Eighth Judicial District Court, Clark County, Nevada. The mediation shall take place in Clark County, Nevada, unless otherwise agreed to by the parties. The fees and expenses of the mediator shall be equally shared by both parties. Each party is responsible for their own costs, expenses, consultant fees and attorney fees incurred in the presentation or defense of any claim, dispute or controversy that is subject to mediation between the parties. The decision of the mediator shall be non-binding.

10.20.4 Right of Judicial Action. Any claim, dispute, or other matter in question between the parties concerning any provisions of this Contract that cannot otherwise be resolved between the parties through the use of mediation required herein may be submitted for judicial action. Prior to the exercise of this right, the party seeking judicial relief shall have provided the other party 30 days prior written notice before filing such judicial action.

10.21 Attorney Fees. The City or the Consultant as the prevailing party that brought any litigation or arbitration to enforce the provisions of this Contract shall be entitled to reasonable attorney fees and court costs.

10.22 Calendar Day. All references in this Contract to days are to calendar days unless otherwise indicated.

10.23 Exhibits. All exhibits referenced in this Contract are hereby incorporated by this reference as a part of this Contract. Any conflict between the provisions of this Contract and the Exhibits incorporated herein shall be governed by the provisions of this Contract.

10.24 Counterparts; Electronic Delivery. This Contract may be executed in any number of counterparts, each of which shall be an original and all of which shall together constitute one and the same instrument. It shall not be necessary for any counterpart to bear the signature of all parties hereto. Executed copies hereof may be delivered by facsimile or e-mail, pursuant to NRS 719.240, and upon receipt will be deemed originals and binding upon the parties hereto, regardless of whether originals are delivered thereafter.

10.25 Contract Version. This document reflects the current standard provisions for the City's Professional Services Contract updated as of **August 2020**.

IN WITNESS WHEREOF, the parties have caused this Contract to be executed the day and year first above written.

CITY OF LAS VEGAS

HDR ENGINEERING, INC.

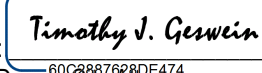
By: _____
Tonya Kemble, Manager, Purchasing & Contracts

By: _____
CONSULTANT NAME, TITLE

ATTEST

By: _____
LuAnn D. Holmes, MMC
City Clerk

APPROVED AS TO FORM

By:  6/21/2023 | 11:39 AM PDT
Deputy City Attorney

LIST OF EXHIBITS

EXHIBIT “ A ” SCOPE OF SERVICES

EXHIBIT “ B ” REQUIRED SUBMITTALS

EXHIBIT “ C ” PERFORMANCE SCHEDULE

EXHIBIT “ D ” FEE BREAKDOWN

EXHIBIT “ E ” COMPENSATION

EXHIBIT “ F ” KEY PERSONNEL LIST

EXHIBIT “ G ” EXAMPLE INVOICE

EXHIBIT “ H ” CERTIFICATE OF DISCLOSURE

EXHIBIT A

SCOPE OF SERVICES

100 GENERAL INFORMATION

100.1 Project Overview Description

The Scope of Services to be provided under the terms of this agreement address the design and preparation of Contract Drawings and Construction Cost Estimate for the preliminary design of the WPCF Headworks and Primary Treatment Rehabilitation project.

Project History and Need for Project

The City is in the process of completing planning and beginning the design for additional hydraulic and treatment capacity at the Water Pollution Control Facility (WPCF). This additional capacity is required to accommodate projected population growth and increases in wastewater flows in the City's service area. The current planning has identified the need to restore the WPCF Headworks to a design capacity of 91 million gallons per day (mgd) average annual flow (AAF). Improvements for proper maintenance access for equipment and redundancy are required.

WPCF Headworks and Primary Treatment Rehabilitation (the Project) now focuses on two of those process areas, namely preliminary treatment and primary treatment. Existing preliminary and primary treatment facilities are described as follows:

- **Preliminary Treatment**
Preliminary treatment and grit removal at the WPCF currently occurs within the existing Influent Screening (five screens) and four Forced Vortex Grit Basins. The existing facilities were originally sized for an Annual Average Flow of 91 mgd (AAF) and a Peak Hour Wet Weather Flow (PHWWF) of 137 mgd. Subsequent improvements in screening removal performance have adversely affected the hydraulic capacity. The existing preliminary treatment facilities include: influent flow metering, 6 mm perforated plate screens, hydraulic sluiceways, screenings washer compactors, forced vortex grit removal, grit washing and classification, grit/screenings building with screenings and grit storage, ferric chloride storage and feed, and odor control.
- **Primary Treatment**
The WPCF currently utilizes two sets of rectangular covered primary clarifiers (Plant 3-4 and Plant 5-6), with chain and flight sludge collectors. The existing basins have a total process design capacity of 50 mgd (AAF) and 75 mgd (PHWWF) with all four units in service. Primary treatment includes ferric storage and metering facilities for chemically enhanced primary treatment at Plant 3-4 and odor reduction at Plant 5-6.

Project Delivery

The City has selected Construction Manager at Risk (CMAR), as the project delivery method. Under the CMAR process, the engineer will develop a Basis of Design Report (BODR) with preliminary drawings which constitutes an approximate 30% level design. The BODR will be used to solicit proposals from CMAR contractors.

HDR will assist the City in the solicitation and selection of the CMAR contractor, which will include assistance with drafting the Request for Proposals, review of the proposals, short-listing of contractors, contractor interviews, and final selection. Final design, including 60 Percent, Early Release, 90 Percent, and 100 Percent design packages are excluded from this Scope of Services.

The primary objective of the Project is to address capacity limitations with the screening and washer compactor equipment, while providing N+1 equipment redundancy. Other project objectives include the following:

Condition Assessment:

- Condition Assessment of the following areas:
 - o Grit Basins
 - o Preliminary Treatment Gates
 - o Ferric Storage Tanks
 - o Primary Clarifier Concrete and 3-6 Gates
 - o Primary Clarifier Odor Control Covers

Preliminary Treatment:

- Address inaccuracies in Influent flow metering with existing acoustic doppler flow meter
- Evaluate adding a rock box and coarse screens upstream of the fine screening building.
- Evaluate adding an influent bypass channel and/or passive overflow.
- Various screening building improvements to facilitate improved operation and maintenance:
 - o Evaluate replacement of perforated plate screens with up to 2 alternative fine screen types
 - o Evaluate adding hot water for sluiceway and/or fine screens
 - o Equipment removal access for washer compactors
 - o Equipment space constraints
- Grit characterization study
- Forced vortex grit basins and grit pump replacement
- Grit piping improvements to prevent line plugging
- Evaluate slide gate and actuator replacement

Primary Treatment:

- Evaluate primary clarifiers cover replacement
- Evaluate primary clarifier sludge collector replacement including suction header in lieu of chain and flights
- Evaluate slide gate and actuator replacement
- Evaluate ferric storage tank replacement
- Ferric metering pump piping replacement

Electrical and Instrumentation:

- Evaluate the following:
 - o Add HMI for cameras to fine screens, washer/compactors, and truck loadout area
 - o Replace headworks standby generator
 - o Replace cable with solid wiring
 - o Install Smart MCC with new power monitors. Connect to plant SCADA for monitoring, data log, and alarm
 - o New headworks PLC
 - o New primary clarifier 3-6 PLCs
 - o New odor control PLC I/O cards

- Various MCC upgrades
- Various SCADA upgrades

Miscellaneous:

- Evaluate recent dechlorination system improvements to determine effect on bisulfite usage
- Evaluate building HVAC improvements
- Evaluate BNR Detritor to deliver scum to digesters

Implement the expansion of preliminary and primary treatment process areas by finalizing the design of related facilities and providing additional engineering services during bidding, construction and commissioning.

The anticipated improvements for each process area are described as follows:

Preliminary Treatment

Depending on the results of the Evaluations/Condition Assessments scoped below , it is anticipated that the new facilities will consist of a new flow metering vault, influent flow bypass, coarse screens, rock catcher, inlet gates, washer/compactors, new coarse screenings building, fine screens, screening storage bins, forced vortex grit basins, and new grit pumps.

Primary Treatment

Depending on the results of the Evaluations/Condition Assessments scoped below , it is anticipated that improvements will be required for the primary clarifier scum pits, sludge collector system, gates for Primaries 3-6, and odor control covers.

100.2 Construction Cost Budget

100.2.1 “Construction Cost Budget” as used herein means the monetary limit established by the City for construction of the Project which limit includes the cost of the Contractor’s labor, materials, equipment, expenses, overhead and profit, but excludes the Project’s soft costs, cost of change orders and other cost impacts encountered after award of the construction contract.

100.3 Project Contact Information

100.3.1 The City Engineer or their authorized representative is hereby designated as the City’s Representative with respect to this Contract. The City’s Representative shall have complete authority to transmit instructions, receive information, interpret and define the City’s policies and decisions with respect to the services of the Consultant. All inquiries concerning the project should be directed to the City Engineer or his authorized representative and the Consultant should not contact internal units of the City unless directed to do so. This policy is effective throughout the life of the project.

100.3.2 The Consultant’s Representative is hereby designated as the Consultant’s Project Manager listed in Exhibit “F”, who shall be responsible for the services required under this Contract. All of the services specified by this Contract shall be performed by the Consultant’s Representative, or by the associates and employees identified in the Consultant’s proposal provided that such associates and employees perform under the personal supervision of the Consultant’s Representative. All employees identified in the Consultant’s cost proposal shall be subject to approval by the City’s Representative. Should the Consultant’s Representative, or any associate or employee, be unable to complete his or her responsibility for any reason, the Consultant will replace the employee with a qualified person approved by the City. If the Consultant fails to make a required replacement within thirty (30) days, the City may terminate this Contract for default.

100.4 Plan Control and Standards

100.4.1 All plans, designs, specifications and estimates shall conform to the City standard practices, which are based on the latest edition of the following documents:

- Policy on Geometric Design of Highways and Streets (AASHTO) **NOT USED**
- Uniform Standard Specifications for Public Works’ Construction, Off-Site Improvements, Clark County Area, Nevada
- Uniform Standard Drawings for Public Works’ Construction, Off-Site Improvements, Clark County Area, Nevada, Volume I and Volume II
- Regional Transportation Commission of Southern Nevada Policies and Procedures **NOT USED**
- Nevada Department of Transportation (NDOT) Standard Plans for Road and Bridge Construction and NDOT Standard Specifications for Road and Bridge Construction **NOT USED**

- Manual on Uniform Traffic Control Devices **NOT USED**
- Clark County Regional Flood Control District's Hydrologic Criteria and Drainage Design Manual
- Las Vegas Valley Flood Control Master Plan Update (MPU), current edition
- Central Neighborhood Flood Control Master Plan, Volume I & II, March 2005
- Las Vegas Valley Water District (LVVWD) Rules and Regulations
- Uniform Design and Construction Standards for Water Distribution Systems, Clark County, Nevada
- Design and Construction Standards for Wastewater Collection Systems, Southern Nevada
- Freeway and Arterial System of Transportation (FAST) standards **NOT USED**
- National Association of City Transportation Officials – Urban Bikeway Design Guide & Urban Street Design Guide **NOT USED**

100.4.2 The design criteria for the following agencies will also be adhered to: City of Las Vegas Sanitary Sewer Planning, Traffic Engineering, and Flood Control; Clark County Regional Flood Control District ("CCRFCDD"); Regional Transportation Commission of Southern Nevada ("RTC") (**NOT USED**); Nevada Department of Transportation ("NDOT") (**NOT USED**); Las Vegas Valley Water District ("LVVWD"); and local utility providers.

100.5 Changes to Scope of Services

100.5.1 If increased scope or workload is encountered, the Consultant is to notify the City in writing and receive written confirmation to proceed prior to the performance of any work related to the increased scope or workload.

100.5.2 The City Engineer or their authorized representative may at any time, only by written order, make changes which may result in an increase or decrease in the services to be performed by the Consultant. If the changes requested by the City cause an increase or decrease in the cost or time required to perform any of the services required hereunder, an equitable adjustment shall be made in the compensation to be paid to the Consultant under Section Seven, or in the time of performance under Section Eight, or both, and this Contract shall be modified in writing accordingly. Any claim for adjustment under this Section must be asserted in writing within thirty days from the date of receipt by the Consultant of written notification of the changes to the services to be provided by the Consultant unless the City grants in writing a further period of time. Failure to assert such claim within the time limit provided herein shall constitute a waiver of any right to seek any equitable adjustment in compensation with respect to that change.

100.6 Responsibilities of the Consultant

100.6.1 The Consultant shall provide a 30 Percent level set of Plans and Basis of Design Report, for the project described in Section 100.1.1, that are whole and complete, technically accurate, , meeting the City's reasonable needs and expectations. All design, re-design, coordination, permitting, quality control review, meeting attendance, , travel, reproduction, computer use or similar items that could reasonably be anticipated which are not limited or excluded elsewhere in this contract or listed specially in additional services, shall be provided by the Consultant for the basic services fee agreed to herein whether they are specifically listed in this scope of services or not.

100.6.2 The Consultant agrees to include in all its subcontracts related to the Project, and require the same of all subconsultant contracts at all tiers, the provisions of this Contract related to the City's and Consultant's rights (including copyright), ownership and uses of the concepts, designs, documents, intellectual property, and tangible property.

100.6.3 The Consultant and his sub-consultants at all tiers agree to maintain copies of the latest version of each drawing, specification section, calculation, map, survey, report, and other project document prepared under this Agreement, in a secure off-site location and to restore these documents upon need and to provide them to the City upon request. This backup obligation shall begin upon notice to proceed and extend continuously until one year after final payment of this Agreement has been made.

100.6.4 Where the Consultant specifies materials and equipment by brand names, provide three or more brand names with model numbers for each item specified. Where only two suitable brand names/model numbers are commercially available state "or approved equal". If only one suitable brand name/model number is commercially available provide required documentation per NRS requirements to support single source selection.

100.6.5 Prior to each design submittal, check all documents for technical accuracy, compliance with applicable codes and ordinances, complete incorporation of all design review comments, and coordination within and between design disciplines. Each submittal shall be in accordance with the appropriate submittal requirements listed herein. Incomplete submittals shall be rejected. All costs associated with the re-submittal shall be borne by the Consultant.

100.6.6 The Consultant shall perform Quality Control/Quality Assurance (QC/QA) reviews for all design phase submittals and make all corrections and/or revisions on all reports, drawings, specifications, and any other documents prior to each design phase submittal. All design phase submittals shall include a letter from the Consultant verifying that all QC/QA reviews have been performed by the Consultant and corrections made prior to submitting to the City. Consultant shall furnish a copy of the QC/QA review set of plans and specifications.

100.6.7 The Consultant shall estimate the quantities of materials for the Project using care and skill employed by professionals engaged in similar tasks. The Consultant shall attest to the accuracy of the plan quantities provided by the Consultant for the bid schedule and that such quantities have been checked by two (2) independent calculations and any differences reconciled. Plan sets with approximate quantities broken out per plan sheet shall be furnished to the City upon request. The Consultant shall attend a special quantity review meeting if necessary and as directed by the City.

100.6.8 The Consultant shall without additional compensation correct or revise any error or deficiencies in the plans, drawings, specifications or other related documents prepared by the Consultant.

100.6.9 The Consultant shall ensure that the new design work contains no asbestos containing building materials of any kind without approval of the Engineer.

100.6.10 The Consultant shall be responsible for all coordination with its subconsultants. Each submittal to the City shall be organized by discipline and shall be thoroughly crosschecked to avoid conflicts between Consultant and subconsultant documents. Vague references to project requirements on other discipline's plans shall not be permitted. Where references to others' plans are necessary for direction, reference notes shall specifically state the drawing number or specification section, as appropriate. It shall be the Consultant's responsibility to advise each subconsultant of this requirement.

100.6.11 The professional services to be rendered by the Consultant under this Contract shall be in conformance with applicable federal, state and local statutes, acts, rules, codes, ordinances, laws and regulations. These include but are not limited to the Americans with Disabilities Act (ADA) guidelines and requirements including conformance to any ADA provisions and guidelines that have been issued in "final form" regardless of their adoption by the Department of Justice, municipal ordinances, and any other applicable Federal, state and local acts, rules, laws or regulations. Additionally, projects shall be in conformance with the "Proposed Guidelines for Pedestrian Facilities in the Public Right-of-Way", available at: <http://www.access-board.gov>. In the event the consultant is not able to comply with these standards a "PROWAG design exception memorandum shall be prepared as required in the project submittals.

100.6.12 All work, including but not limited to drawings, specifications, and calculations, shall be provided by the Consultant for each and every part of the Project. When complying with NRS 338.140 by listing multiple manufacturers in the specifications, the Consultant shall review options with the City and select the most available, standard, or economical manufacturer's model to fully engineer and include in the bid documents. Should the contractor propose one of the other manufacturers listed in the specifications after award, the cost of the other listed manufacturer's effect on the documents and the construction shall be borne by the contractor, except that the Consultant shall have the duty to cooperate with the contractor in reviewing the proposal for design compliance (including the contractor provided structural calculations) and providing revisions to the Consultant's documents as required to accommodate the proposed change. Such revisions to the Consultant's documents may be an Additional Service, which shall be approved in writing by the City prior to the Consultant making any revisions and charged to the contractor by change order.

100.6.13 The Consultant acknowledges the City's requirement to incorporate the City's "Instructions to Bidders", "General Conditions" and "Special Provisions", incorporated herein by reference, into the Contract Documents prepared for bidding for the Project covered by this Contract. The Consultant further agrees to perform in accordance with the obligations stated in these referenced documents and agrees to include this provision in all sub-consultant contracts. The Consultant acknowledges familiarity with the City's standard format, terms and conditions of these documents and that such document examples were made available to the Consultant upon request, prior to signing this Contract. **NOT USED**

100.6.14 The City's approval of any documents or services furnished by the Consultant shall not in any way relieve the Consultant of responsibility for the professional and technical accuracy of its documents or services. The City's review, approval, acceptance or payment for any of the Consultant's services shall not be construed to operate as a waiver of any rights enjoyed by the City under this Contract or of any cause of action arising out of the performance of this Contract. The Consultant shall remain liable in accordance with the terms of this Contract and applicable law for the damages to the City caused by the Consultant's negligent act or omission committed in the performance of this Contract.

100.6.15 CMAR Coordination. If the Project utilizes the Construction Manager at Risk (CMAR) delivery method, the Consultant shall coordinate and cooperate as necessary for the CMAR to provide their scope of preconstruction services for the Project.

100.6.16 Photos. The requirement for the Consultant to obtain a City issued Film Permit to photograph the Project is waived for the Term of this Contract. Photographs of the Project taken by the Consultant after final Consultant payment will again require a City issued Film Permit. Reference 10.04, E. Confidentiality for the allowed uses of Consultant photographs.

100.6.17 Plan and Special Provision Production and Submission

- All Drawings shall be prepared using Autodesk's AutoCAD Civil 3D version 2018 or newer in accordance with current city of Las Vegas CAD standards, which are found on the city's website.
- The design process used to generate the construction documents for the system will be three dimensional, which means that all finite elements will have an x, y, and z coordinate. The improvement plans for the project will be produced using AutoCAD Civil 3D objects:
- The aerial topography will be converted to a three-dimensional surface of the existing topography
- The system, including sewer, storm drain laterals, will be designed using Pipe Networks resulting in a fully three-dimensional (3-D) model of the proposed system
- Crossings of the sewer and storm drain system by existing utilities will be included in the 3-D model and based on pothole data
- Proposed relocations of water and sewer will be designed three-dimensionally using Pipe Networks
- Grading of any channel or roadway-type structures will be performed using Corridors to produce a 3-D model
- Three-dimensional grading where more site specific information is required will be accomplished using Feature Lines
- Surface elements of the design will be designed three-dimensionally
- All curb ramps shall have detailed grading information to show compliance with PROWAG
- Intersection grading shall be provided at a level of detail necessary to allow construction to applicable tolerance **NOT USED**
- Field survey of the existing utilities, structures, field shots, and supplemental survey (locations and elevations) will be incorporated into the 3-D surface of the existing topography
- Specifications shall be prepared in City standard format using the software program Microsoft Word 2016 or newer release. The use of any other software for plan or specifications production requires prior written approval from the City's Representative. **NOT USED**
- All drawing submittals, submitted by the Consultant will be printed on white bond paper. All full size reproducible copies will be on 24" x 36" sheets and all reduced size reproducible copies shall be on 11"x17" sheets. Consideration shall be given to legibility of hatching and shading for reproduction of all sizes of plans. Plans that do not meet these requirements will not be accepted. Submittals shall be accompanied by all associated electronic files.
- Special Provision format will follow the City standard provided to the Consultant. Special Provisions shall be stamped and signed by the appropriate design professional. Special Provisions that do not meet these requirements will not be accepted. **NOT USED**
- For each design submittal, the Consultant will submit electronic files of the AutoCAD files, including drawings and data files, and an Adobe Portable Document Format (PDF) file, 11"x17" print size, for each plan sheet submitted. For the 30% Submittal, Adobe PDF files will only be required for the Design Report and will not be required for the roll plot submittal.. All electronic files shall be submitted on either a CD-ROM, DVD disk, or other electronic media that can be read by any industry standard hardware. If electronic files are not submitted with the hard copy design

submittal, the City will consider the design submittal incomplete and may reject the submittal in its entirety. If rejected, all costs for the resubmittal shall be borne by the Consultant.

- Prior to any electronic submittal, the Consultant shall, using commercially available software with current virus definitions, certify that electronic submittals are free of electronic "viruses", "worms", "Trojan horses", and other programs or data stored on the host computer or the electronic submittal.
- Upon written agreement with both parties an intermediate design submittal may be changed in definition of percentage complete without change to the basic service fee amounts (for example changing the 60% submittal to a 50% submittal). The written agreement would detail any resulting change in billing schedule. Should an additional submittal be requested by the City (for example adding a 50% submittal in addition to a 30% and a 90% submittal) this work would be paid for in accordance with Section 3.1, 3.2 and 7.2 of this Contract.
 - o Section 101 – Preliminary and General Items
 - o Section 102 – 30% Design Phase
 - o Section 103 – 60% Design Phase **NOT USED**
 - o Section 104 – 90% Design Phase **NOT USED**
 - o Section 105 – 100% Design Phase **NOT USED**
 - o Section 106 – Bid Phase **NOT USED**
 - o Section 107 – Construction Phase **NOT USED**
 - o Section 108 – Post Construction Phase **NOT USED**

100.7 Cost Estimates

100.7.1 The Consultant shall prepare and provide a detailed Construction Cost Estimate for the 30% submittal. The cost estimate shall be prepared as directed by the City using the software program Microsoft Excel 2016 or newer release. The Consultant will provide unit costs, quantities and other estimating parameters for each component or work, reflecting current market conditions and costs. The Consultant will reconcile each successive estimate to the one provided at the preceding submittal. The Consultant shall incorporate appropriate contingencies based on the completed level of design. If the cost estimate is not included in the design submittal, the City will *consider* the design submittal incomplete and may reject the submittal in its entirety. If rejected all costs for the resubmittal shall be borne by the Consultant.

Any opinions of probable project cost or probable construction cost provided by Consultant are made on the basis of information available to Consultant and on the basis of Consultant's experience and qualifications, and represents its judgment as an experienced and qualified professional engineer. However, since Consultant has no control over the cost of labor, materials, equipment or services furnished by others, or over the contractor(s)' methods of determining prices, or over competitive bidding or market conditions, Consultant does not guarantee that proposals, bids or actual project or construction cost will not vary from opinions of probable cost Consultant prepares.

The CMAR will provide a cost estimate at the 60% Design Phase. The Consultant's Independent Cost Estimator (ICE) will provide a detailed cost estimate for the Early Release Package, and 90% Submittal for comparison to the CMAR's cost estimates for these design phases. **NOT USED**

100.8 Construction Change Orders

100.8.1 The City has a formal construction contract change order approval process. Proposed construction change orders are negotiated and reviewed by City Engineering and Construction Management staff (and the construction management consultant when one has been retained). Construction change orders are then reviewed for approval by the City Change Order Committee. Part of that approval process will be checking a box on the Change Order Tracking Form indicating the reason for the construction change order based on information available to the committee at that time. If the construction change order appears to relate to a consultant design deficiency then either the Reason Code box "E&O Value" or "E&O No Value" will be checked. "E&O" value will be checked if it appears the apparent design deficiency results in added cost to the project but all, or a substantial part, of that cost would have been incurred in the original bid if the deficiency did not exist. "E&O No Value" will be checked if it appears that little or no cost to the project would have occurred if the deficiency did not

exist. The City may use this data, as well as any other relevant data, in exercising its rights under this Contract to seek compensation for Consultant errors and omissions.

The City will make reasonable efforts to copy all approved construction change orders (with the tracking form included) and construction change directives to the consultant in order to provide the consultant an opportunity to prevent similar instances from occurring on future projects, to allow the consultant to review the potential for similar instances to occur during the progress of this project (and to work with City and Contractor to minimize the potential for future financial impacts when possible regardless of the reason code box checked) and to give advance notice to Consultant to prepare for potential financial impacts to the Consultant and/or for the Consultant to provide documentation to the City as whether the appropriate reason code box has been checked.

There may, at times, be a benefit for the consultant to review construction change orders or construction change directives prior to final negotiation and approval. This could provide the consultant with an opportunity, prior to finalization, to determine that a proposed construction change order or construction change directive may be excessively priced, not a legitimate change in the scope of the Contractor's work, outside of the Consultant's scope of work, detrimental to the Consultant's design, uncoordinated with the Construction Documents, potentially harmful to public safety, or a violation of codes, laws and regulations. Therefore the City will make reasonable efforts to notify the consultant of possible construction change orders or construction change directives prior to final negotiation and approval. And to, when appropriate, request the consultant to sign acknowledgement and concurrence on the final construction change order or construction change directive or to make formal revisions to the plans and/or specifications. However, given time constraints and the need to limit Contractor delay claims (that can often quickly exceed the cost of the construction change order), advance notice to the consultant is not always possible or practical. And, in fact, potential construction change order work, including force account work, is sometimes allowed to proceed prior to any construction change order being drafted or reason code applied by City.

NOT USED

100.9 Responsibilities of the City

100.9.1 Shall furnish a copy to, or make available for examination or use by, without a fee, the Consultant, any documents and data which the City has available including, reports, maps, plans, specifications, surveys, records, ordinances, codes, regulations, other documents related to the services required under this Contract. The City shall assist the Consultant in obtaining data and documents from public agencies and from private citizens and business firms whenever the City determines that such material is necessary for the completion of the services required by this Contract.

100.9.2 Access arrangements for the Consultant to enter upon City owned property as required to perform their services.

100.9.3 Acquire any property, authorizations to enter property, easements, or other project rights required to construct the Project

100.9.4 Provide and conduct bidding activities, including printing and distribution of bid and construction documents, except as specifically required to be provided by the Consultant in this Scope of Work

100.10 City's Review Process

100.10.1 Upon receipt of any documents or electronic files furnished by the Consultant, the City Representative shall conduct a preliminary review of such documents and determine whether the documents comply with the scope of the Project. After the preliminary review, if the City Representative determines that the documents are insufficient, inadequate, or incomplete, the City shall notify the Consultant and request documents which are professionally complete and appropriate for each service phase submitted. The decision by the City Representative in this matter shall be final.

100.10.2 If the City Representative determines, after requesting the Consultant to provide corrected and professionally complete Phase submittals, that the documents or files remain insufficient, inadequate, or incomplete, the City may: (i) declare the Consultant in default, or (ii) demand a letter of explanation from the Consultant as to the reason the furnished documents are insufficient, inadequate or incomplete. If the City elects the second option, the Consultant, at Consultant's own expense, shall furnish additional sets of all documents that are sufficient, adequate and complete in the discretion of the City Representative for review by the City. The Consultant, at Consultant's own expense, shall attend any meeting, whether formal or informal, including the City Council meeting when requested by City to explain the reason the Consultant presented

inadequate, insufficient, or incomplete documents to the City, and the delay, if any, that such submittal and re-submittal may cause in completion of the Project.

100.10.3 The City's review period in the Project Schedule shall not begin until the City Representative determines that the documents or files presented by Consultant fully comply with the requirements. After the City Representative determines that the documents or files comply with such requirements, the City shall begin a review of the documents.

100.10.4 After the City reviews the documents, one or several set(s) of the documents shall be returned to the Consultant with comments and corrections noted thereon. The Consultant shall make the changes necessitated by the corrections or other comments into the documents, and return the correction set(s) with the corrected documents, together with written responses to the City's correction(s), comments(s), and change(s), which state the action taken and reason for such action for each item presented by the City.

101 PRELIMINARY AND GENERAL ITEMS

101.1 Project Management

101.1.1 Project management will include work necessary for communication and completion of the project tasks on time and within budget. The Consultant's Project Manager or their primary duties will not be reassigned without the written consent of the City's Project Manager. The Consultant's staff will have the training and expertise necessary for the work tasks to which they are assigned.

101.1.2 The Consultant will provide invoices in the standard format provided by the City's Representative. Invoices will be accompanied by a cover letter explaining the general status of the project, including at a minimum the work completed to date, the anticipated remaining efforts and required schedule changes; progress report form; supporting data for direct expenses (when specified expenses are allowed per Exhibit D, herein); and an updated project status report and project schedule reflecting Scope of Work activities identified by the City Representative.

101.1.3 Invoices shall be in the same format and include the same information as specified in the example invoice provided in Exhibit G. The associated certified payrolls and/or time cards shall be included with each invoice. In addition, a copy of the current project schedule must be submitted with each invoice

On a weekly basis, or a time frame approved by the City's Representative, the Consultant's Project Manager will update the City Representative with regards to the status of the project schedule, budget and general status/progress. This task is in addition to Design Progress Meetings and may be performed in a phone, email or mailed correspondence as approved by the City Representative. The CMAR Contractor will be responsible for maintaining and updating the project schedule throughout the project. Consultant may periodically review the contractor's schedule and use it for planning of the design team resources and deliverables.

101.1.4 Project Management Software. Upon City request, Consultant shall utilize the City's online project management software for contract administration including, but not limited to: invoices, project submittals, schedules, and reports.

101.2 Kick-Off Meeting and Design Progress Meetings

Consultant shall prepare an agenda and schedule and attend a kick-off meeting with the City and other agencies as required within ten calendar days of the issuance of the Notice to Proceed. This meeting will be held to review the scope of work, discuss data and information provided by the City, review the project schedule (prepared by the Consultant using Microsoft Project in the City-provided format, introduce key personnel, establish lines of communications and clarify the City's and other government agency requirements for the Project, and identify any missing data and information necessary to proceed with the Project. Within five business days following the kick-off meeting, the Consultant will prepare and distribute draft meeting minutes to the City's Project Manager and meeting attendees (an e-mail to the City's Representative of the draft minutes is acceptable). The Consultant shall prepare and distribute final meeting minutes after the draft meeting minutes are approved by the City's Representative. It is assumed that Consultant will have weekly coordination meetings with the CMAR throughout the design period. This task also includes up to 20 miscellaneous meetings for issues that arise during design.

101.2.1

- **Deliverables:** Project Kick-Off Meeting Agenda and copies for distribution at Kick-Off Meeting; Project Kick-Off Meeting Minutes.

101.2.2 Consultant shall attend approximately 26 progress/coordination meetings to be held with the City, other relevant agencies and utility companies. Design Progress meetings shall be conducted on a bi-weekly basis, or a time frame approved by the City's Representative, at the City's offices and will be attended by the Consultant's Project Manager, Project Engineer and other key personnel as determined to be necessary. Consultant shall prepare an agenda for each of the progress meetings. Within five business days following the progress/coordination meeting, Consultant shall prepare and distribute draft meeting minutes to the City's Representative and meeting attendees (an email to the City's Project Manager and meeting attendees of the draft minutes is acceptable). The Consultant shall prepare and distribute final meeting minutes after the draft meeting minutes are approved by the City's Representative and after receipt of comments from all meeting attendees.

- **Deliverables:** Design Progress Meeting Agenda and copies for distribution at Design Progress Meetings; Design Progress Meeting Minutes.

101.3 Utility and Agency Coordination

101.3.1 Consultant shall coordinate with all utilities and agencies having facilities within the limits of or adjacent to the Project throughout the duration of the project, this includes attendance to all related meetings. The Consultant will contact the utility companies and other governmental agencies early in the project to obtain information relating to the location, size and type of facilities owned by that Utility. The Consultant shall perform Subsurface Utility Engineering (SUE) as identified herein, identify potential utility conflicts and meet with the affected utilities to ensure timely resolutions for the utilities conflicts. Utility companies and agencies to be contacted by the Consultant shall include, but are not limited to, the following:

- Clark County Regional Flood Control District ("CCRFCD")
- Clark County Department of Public Works
- City of Las Vegas work groups, including but not limited to, Flood Control, Parks, Collection System Planning, Traffic Engineering, Operations and Maintenance, and Land Development
- Las Vegas Valley Water District ("LVVWD") and Southern Nevada Water Authority ("SNWA")
- Freeway and Arterial System of Transportation ("FAST") **NOT USED**
- Utility providers, including but not limited to, NV Energy Transmission and Distribution, Century Link, Cox Communications, Southwest Gas Corporation, AT&T Fiber Optic Cable, small cell providers, and other fiber optic and communication carriers
- Nevada Department of Transportation ("NDOT") **NOT USED** and
- Other local and state agencies as required.

101.3.2 The Consultant shall prepare a utility conflict schedule and pothole plan to advise the City's Representative of any utility conflicts, coordinate utility requests for information, monitor status of proposed utility projects within the projects limits and meet as required with utility companies to resolve conflicts. Utility base drawing will be developed within the SUE Task. Preparation of minor utility relocation plans will be incidental to each Design Phase Tasks. Major utility relocation design plans are anticipated, as mentioned in this scope of services, and will be paid for separately under Additional Services Tasks upon separate authorization by the City.

101.3.3 Coordination with utilities including but not limited to, coordinate utility requests for information, coordinate with utility companies to develop utility company relocation plans, coordinate and assist City's Representative with utility company agreements, preparation, by the Consultant, of information needed for new services, coordination for new services for City facilities (such as power service for street lights and traffic signals and water hookups for City irrigation lines), meet as required with utility companies to resolve conflicts and project coordination, and exhibits. Submittal of Design Phase Plans are not a part of the Task, they will be part of each Design Phase Plan submittal. Utility signatures are not part of this Task, they will be part of the 100% Design Phase Task.

101.3.4 Nothing in this section shall be construed as preventing this Exhibit "A" from specifically detailing the Consultant's scope for anticipated minor utility relocations and/or new service connections with individual tasks identified and associated man hours and costs shown in Exhibit "D" when warranted.

101.3.5 The Consultant shall coordinate with the City of Las Vegas' Land Development Services Section for current projects, encroachment agreements, covenants running with the land and any other mapping that may have an impact on the project.

101.3.6 The Consultant shall submit design plans for review from the various utility companies for the 30%, submittal.

101.3.7 The Consultant shall submit design plans for review and obtain approval signatures from the various utility companies on final bond prints prior to submitting to the City of Las Vegas. **NOT USED**

101.3.8 Consultant shall notify the City of any required utility agreements, applications, permit and review fees, which will be paid for by the City. **NOT USED**

101.3.9 The City's Representative shall give approval of documents prior to being submitted to any regulatory agency for permit review and approval.

101.3.10 City Engineer's Office is NOT A REGULATORY AUTHORITY. The Consultant does hereby acknowledge, understand and agree that the City Engineer's Office, acting as the City's representative for purposes of the Project, does not have any control, authority or influence over the decisions or requirements of other departments of the City acting in a regulatory capacity including, but not limited to, the Building Department, Fire Department, and Planning Department of the City of Las Vegas. The City's representative acts in a capacity similar to that of a representative working for a private property owner which is to ensure that the City receives a quality product, delivered on schedule, for a fair price. Furthermore, the City Engineer's Office does not speak or act for any regulatory authority, nor does any regulatory authority speak or act for the City Engineer's Office. The Consultant agrees that its relationship with the regulatory authorities having jurisdiction over the Project is separate from its relationship with the City, and that the Consultant's interaction with each regulatory authority is to be conducted without assistance from the City.

101.3.11 Deliverables: Project Plans to be sent to the Utility Companies at the 30% design level.

101.4 Project Permits

101.4.1 Consultant shall identify all permits needed for the Project. Consultant shall prepare all correspondences and permit applications for the regulating agencies and assist the City in obtaining required permits.

101.4.2 The following permits are anticipated for this project:

- NDOT Encroachment Permit **NOT USED**
- Clark County Offsite Permit
- Clark County Grading Permit
- Clark County Building Department Building Permits **NOT USED**
- Clark County Regional Flood Control and City Flood Control Technical Drainage Study Concurrence Letters **NOT USED**
- Clark County Fire Department permits
- Nevada Division of Environmental Protection (NDEP), plan reviews

101.4.3 During the design process, the Consultant shall provide a permit matrix which will determine the permits needed for the Project. A summary matrix of required permits shall be prepared by the Consultant and included in the Design Report. Any required permits not contemplated in this scope of work will be paid for separately under Additional Services upon separate authorization by the City.

- **Deliverables:** Matrix of required permits; correspondence; preparation of initial permit applications for preliminary design review.

101.5 Public Outreach **NOT USED**

101.5.1 The Consultant will be responsible to coordinate project information and assist City of Las Vegas (City) staff and any other public outreach consultant (if applicable) in conducting public informational meetings and hearings, preparing displays, attendance by staff members who are knowledgeable of the project, and shall be responsible for:

- Preparing exhibits for the project
- Assist City staff and any other public outreach consultant (if applicable) in preparing handouts for public information meeting
- Responding to public comments as part of the record of the meeting
- Participating in the meeting to explain the project and answer questions
- Prepare PowerPoint presentations

101.5.2 The Consultant shall assist City staff and any other public outreach consultant (if applicable) with creating, preparing and releasing relevant and timely information regarding project status during design and construction to the following:

- Elected Officials
- Media outlets
- Property owners and tenants
- Businesses
- Other stakeholders
- **Deliverables:** coordinating, facilitating, attending, preparing exhibits, letters, notices, flyers, meeting minutes and specialty signing (e.g., business information, traffic control, etc.).

101.5.3 Stakeholder Meetings NOT USED

- The Consultant will be responsible to coordinate project information and assist City staff and any other public outreach consultant (if applicable) for two (2) meetings required with project stakeholders prior to construction and shall be performed to determine the landscape aesthetic treatments on the project. The purposes of the meetings shall be, but not limited to, identifying potential project aesthetic treatment alternatives, locations, determining long term maintenance participation, building consensus among aesthetic stakeholders and choosing a preferred alternative from the xxx (Insert number of meetings) proposed conceptual plans. If this task is required, it will be paid under additional services.
- The Consultant will be responsible to coordinate project information and assist City staff and any other public outreach consultant (if applicable) for xxx (Insert number of meetings) Public Meeting during the project.
- **Deliverables:** coordinating, facilitating, attending, preparing exhibits, letters, notices, flyers and meeting minutes meetings.

101.6 Other Tasks

101.6.1 Workshops

Workshops include Technical workshops and a Deliverable Review workshop as outlined below. The Consultant will prepare an agenda, minutes and summary notes with assigned action items for each workshop.

Technical Workshops

Table 1 lists the nine planned technical workshops and the topics to be discussed. Each workshop is expected to be up to four hours in duration.

Table 1: Technical Workshops

Technical Workshop	Discussion Topics
Field Condition Assessments	Condition assessment results for the various facilities
Influent Structure, flow bypass, and metering	Rock box, influent bypass flow, influent flow metering
Bar Screens and Washer/Compactors	Coarse and fine screening and washer compactor equipment and ancillary process units, operation, and maintenance requirements.
Grit Removal	Grit removal equipment and ancillary process units, operation, and maintenance requirements.
Primary Clarifiers 3-6	Primary clarifier equipment and ancillary process units, operation, and maintenance requirements.
Ferric Chloride & Sodium Bisulfite Facilities	Ferric storage and delivery equipment, operation and maintenance requirements. Sodium bisulfite performance.
Electrical & Instrumentation	Electrical and instrumentation upgrades for each process area
Scum & Grease Handling	Scum/grease pumping & handling equipment and ancillary process units, structures, operation, and maintenance requirements from plant and offsite pump station sources for intermediate and full buildout expansions.
Construction Sequencing & Phasing	Construction sequencing, staging and phasing requirements, including potential Early Out packaging.

Deliverable Review Workshops

The Consultant will adhere to the established City procedures and timelines for submittal and review of deliverables. In association with those deliverables the Consultant will conduct the workshops identified below:

Deliverable Review Workshop	Discussion Topic
Basis of Design Report	Submittal overview, responses to questions and comments.

Workshop Assumptions

Workshop assumptions, unless otherwise noted, include the following:

- Workshops are assumed to be an average of four hours in length, with some workshops being shorter and others extending longer.
- Level of effort includes preparation of agenda, meeting minutes, and the production of meeting materials.
- Key decisions made at each workshop will be recorded using a Decision Log format.
- Up to five Consultant team staff will attend each workshop. Travel costs are included for attendance.
- The focus of the workshops will be to identify and address new comments concerning the final design effort. Addressing additional new comments after responses to Workshop comments are accepted by City staff may be considered as additional services depending on the scope of the comments. Consultant will use BIM software for visualization of the proposed facilities and modifications.

Workshop Deliverables

Workshop deliverables include the following:

- Workshop agendas, presentation materials, and handouts will be prepared for each workshop.
- The Consultant will submit reports, technical memoranda, or other deliverables as applicable to the City before conducting the related review workshop.
- Key topics of the deliverables, as indicated, will be discussed in the workshops.
- Key decisions needed to be made at each workshop will be identified in the agenda.
- Workshop summaries will be provided one week after each workshop, or at a time agreed upon by both parties. The summaries will include documentation of key decisions made.
- Revised summaries, as applicable, will be provided at the subsequent workshop or at a time agreed upon by both parties.
- Responses to comments and questions using City's spreadsheet template.

For the purposes of scoping and budgeting, it is assumed that up to eight hard copies, and a digital copy in .pdf format will be provided for each deliverable

101.6.2 CONDITION ASSESSMENTS & EVALUATIONS

Consultant **will** evaluate options to increase Headworks' capacity to 91 MGD (111 MGD preferred). Improve space availability and equipment layout for access and maintenance. Provide N+1 Redundancy for equipment.

Based on previous City project scoping and discussions with City staff, the following facilities have been identified as requiring evaluations or condition assessments prior to proceeding to pre-design. Each evaluation/assessment will have a corresponding TM and Workshop with the City.

101.6.2.1 Background Information and Data Collection

Prior to the Kick-Off meeting, the Consultant will submit a data request to the City which may include the following information:

- Plant Record Drawings and equipment shop drawings as required
- Plant flow, load, and chemical usage data as requested
- Current plant CAD drawing files
- Previous inspection or condition assessment reports for the affected areas
- Previous Geotechnical Reports
- Plant aerial photography (if available)

The City will provide this information to the Consultant at or shortly after the Kick-Off meeting.

The Consultant will review and use this information as part of the initial assessments and project detailed design.

101.6.2.2 Field Conditions Assessments

In order to determine if existing facilities can be rehabilitated or require replacement, Consultant will perform condition assessment of the following facilities:

- Primary Clarifiers 3-6 Aluminum Odor Control Covers
- Primary Clarifiers 3-6 Tank Concrete
- Primary Clarifier 3-6 slide gates
- All preliminary treatment slide gates
- Grit Basins 1-4 concrete and steel
- Ferric Storage Tanks

Field activities to be completed during the condition assessment will include:

- Field measurement of primary clarifier cover trusses and cover plates
- Ultrasonic thickness testing of truss beams and cover plate (ASTM E164-08)
- Weld inspections (NACE SP-0178) of structural steel and aluminum
- Pit depth measurements of corroded steel elements
- Steel and concrete coating dry film thickness
- Qualitative structure and equipment condition rating

To verify the condition of the existing concrete clarifier and grit tanks, one tank (at a time) shall be temporarily taken out of service and drained for condition assessment. It is assumed that the following will be provided by the City to facilitate inspection of the tanks:

- Tank will be drained and pressure washed.
- Tripod and lift, ventilation, lighting and ladders or scaffolding will be provided by the City to facilitate confined space entry.
- Tops of the walls will only be visually inspected

The condition assessment work is estimated to be completed within one day for each tank, a total of up to six (6) days. The information obtained will be used to determine the appropriate level of concrete remediation (if any), equipment remediation or replacement, and coating recommendations.

Deliverables: Technical memorandum summarizing the results of the field condition assessments, including all relevant field data, test results, and photos.

101.6.2.3 Influent Facilities Evaluation

This technical memorandum will evaluate the following components of the influent facilities:

- Addition of a passive overflow to the influent channel.
- Addition of a motor operator and high level float to the bypass gate for automation.
- The existing influent doppler flow meter does not report flows accurately; therefore, it should be replaced. Grit build-up and placement within the RCB with a chamfered bottom are suspected causes for inaccuracy. Recommend a replacement design solution.
- Addition of an appropriately sized Rock Box to collect large debris upstream of the new coarse screens.

Deliverables: Technical memorandum of influent facilities evaluation.

101.6.2.4 Screening and Washer/Compactor Evaluation

Existing Fines Screens do not provide adequate capacity. Evaluate system to determine cause and include a proposed solution, including alternative screen types. The existing fine screens have been damaged by large debris coming into Headworks. Evaluate the impact of adding coarse screen improvements upstream of Headworks.

Evaluate the following:

- New coarse screenings building for washer compactor equipment.
- Preferred screenings storage and loadout facilities.
- Potential needs for odor control, solids handling, and structural modifications.
- Consider using the bypass channel as another screen channel for redundancy.

Existing screenings washer/compactor equipment does not have enough capacity to meet current operations and flow needs (91 MGD). The existing headworks building does not provide adequate space for additional/larger washer compactors. Evaluate the screenings handling system, and recommend viable solutions including potentially adding hot water pressure washers.

Deliverables: Technical memorandum of screens and washer/compactor facilities evaluation.

101.6.2.5 Grit Removal Evaluation

Grit buildup and pass through has been an issue along the incoming interceptors and also downstream of the grit basins.

Grit Sampling & Characterization

Consultant will perform a grit characterization study to determine particle size and distribution for equipment evaluation. Black Dog Analytical will perform grit sampling of the influent and effluent from the grit basins over a 2-day period. Black Dog will provide the particle size distribution and samples to Consultant. Consultant will use the Tru-Grit® process to determine the grit settling velocity. Settling velocity is the key design parameter in selecting and sizing of grit removal equipment.

Consultant will perform the following:

- Develop grit removal design criteria
- Evaluate Pista Grit units for rehabilitation or replacement.
- Evaluate Grit pumping and piping improvements.
- Evaluate Preliminary Treatment configuration and recommend upgrades to minimize grit passage through to Primaries. Grit improvements may also consider adding a grit collection system upstream of the Fine Screens.

Deliverables: Technical memorandum of grit removal facilities evaluation.

101.6.2.6 Primary Clarifiers 3-6 Evaluation

This technical memorandum will evaluate the following primary clarifier facilities:

- Scum Pits including recommendations on how to efficiently remove scum.
- Sludge Collector system: evaluate replacing with a suction header for primaries 3-6.
- Evaluate Odor control covers for replacement.
- Evaluate primary influent gates for replacement.

Deliverables: Technical memorandum of Primary Clarifier 3-6 evaluation.

101.6.2.7 Ferric Chloride System Evaluation

This technical memorandum will evaluate the following components of the ferric chloride feed system:

- Evaluate the relocation or replacement of the existing ferric pumps within the building. The current system was located in a temporary area. Gear pumps are preferred for ferric dosing.
- Evaluate the modification or replacement of the existing manifold piping.
- Evaluate the benefit of adding a compressor at the bulk tanks to boost ferric delivery. It currently takes 1-1.5 hours to fill the tanks.

Deliverables: Technical memorandum of ferric chloride facilities evaluation.

101.6.2.8 Electrical and Instrumentation Evaluation

This technical memorandum will evaluate the following:

- An Electrical condition assessment of the headworks facility is needed; fuses blow often.
- Add cameras to fine screens, washer/compactors, and truck loadout area
- Replace headworks standby generator
- Replace cable with solid wiring
- Smart MCC with new power monitors
- New headworks PLC
- New primary clarifier 3-6 PLCs

- New odor control PLC
- Various MCC upgrades
- Various SCADA upgrades
- A design coordination meeting with CLV and Wunderlich-Malec Engineering (WME) will be required prior to development of the final scope and fee. Refer to PLC 59 for example of an updated PLC.

Deliverables: Technical memorandum of electrical and instrumentation systems evaluation.

101.6.2.9 Sodium Bisulfite System Performance Evaluation

Consultant will evaluate the dechlorination system chemical usage to determine if the new facility has reduced sodium bisulfite consumption relative to effluent flows. Evaluation will include a review of effluent flows, metering pump flows and/or tank levels provided by CLV.

Deliverables: Technical memorandum of sodium bisulfite system evaluation.

101.6.2.10 Scum & Grease Handling

This technical memorandum will evaluate scum/grease pumping & handling equipment and ancillary process units, structures, operation, and maintenance requirements from both plant and offsite pump station sources. The locations will include:

- 4 Primary Clarifier Scum Wells
- One collection system lift station

Deliverables: Technical memorandum of scum and grease handling evaluation.

101.6.2.11 Construction Sequencing & Phasing

Consultant will evaluate the construction sequencing and phasing required to maintain plant operations during construction of the new facilities. Identify potential early out packages to expedite the project schedule.

Deliverables: Technical memorandum of construction sequencing and phasing recommendations.

102 30% DESIGN PHASE

102.1 Survey

102.1.1 General

- Professional Land Surveyor. All survey work performed for the tasks listed in this section shall be performed under the direct supervision of a Professional Land Surveyor (PLS) currently registered in the State of Nevada, excluding any aerial mapping or LiDAR scanning performed by a third-party vendor.

102.1.2 Control Survey

- General. A control survey will be performed to establish adequate control for all boundary location and topographic mapping necessary for the limits and purpose of the project. This will include all control panels/targets set for the purpose of aerial mapping or LiDAR scanning.
- Horizontal Coordinate System. The control survey shall utilize the official City of Las Vegas horizontal coordinate system defined as follows. The geodetic datum and current reference frame is NAD 83 (2011) epoch 2010.0 as determined by the reference stations that comprise the Las Vegas Valley Water District GPS network. The use of any other geodetic datum and reference frame will require approval of the City Surveyor. The mapping projection is the Nevada Coordinate Reference System (NCRS). The appropriate NCRS zone is dependent on the geographic location of the project and should be determined prior to any surveying activities. For more detailed information on the datum, GPS network and NCRS please visit the following webpage: lasvegasnevada.gov/survey.
- Vertical Control. The control survey shall utilize the official City of Las Vegas Vertical Control Network defined as follows. The vertical datum is NAVD88 as adjusted by the City in 2008, referred to as the CLV 2008 Adjustment. The Control Network is comprised of City of Las Vegas benchmarks. Only benchmarks with a published CLV 2008 Adjustment elevation shall be used. For more detailed information on the benchmarks please visit the following webpage: lasvegasnevada.gov/survey. Large projects that extend more than one-half mile in any direction shall be tied to multiple benchmarks, with no portion of the project being more than one-half mile from a project benchmark.
- Accuracy. The control survey shall have an absolute horizontal accuracy of +/- 0.05 feet relative to the project coordinate system, which meets positional certainty requirements for High Urban Land Boundary Surveys per NAC 625.666. All points used to control aerial mapping, lidar scanning and traditional optical survey methods shall have an absolute vertical accuracy of +/- 0.05 feet (relative to the project benchmarks), as permitted by the positional certainty requirements for Control Surveys per NAC 625.666.
- Boundary Control. The control survey shall incorporate sufficient survey monumentation to establish the following cadastral linework: roadway alignments, right-of-way lines, property lines and easement lines necessary for the limits and purpose of the project. Complete research of existing recorded maps, surveys, land records, and any other pertinent records shall be performed.
- Monumentation. All roadway centerline and Public Lands Survey System (PLSS) monuments within the limits of the project's proposed construction activities (not already included as part of the boundary control survey) shall be incorporated within the control survey.
- Survey Control Map. A Survey Control Map shall be prepared showing all horizontal control, vertical control and boundary control monuments included in the control survey with the relevant horizontal coordinates and elevations annotated. It shall also show all roadway alignments, right-of-way lines, property lines and easement lines established for the project along with all necessary annotation to describe the geometry of this linework.
- Record-of-Survey. Unless waived by the City Surveyor the Survey Control Map shall be formatted as a Record-of-Survey. If the Record-of-Survey requirement was waived, the completed Survey Control Map shall be formatted as specific plan sheet(s) to be sealed by the PLS.
- **Deliverables: The control survey shall be submitted and approved before the 30% design submittal will be accepted.** The "Control Survey Submittal" shall include: (1) a preliminary PDF file of the completed Survey Control Map (record-of-survey or plan sheets); (2) a CAD file containing all cadastral linework; (3) a point file containing all survey control points if not contained in the CAD file; (4) all field raw data files and field notes pertaining to the control survey.

102.1.3 Topographic Survey

- General. Based on the project control survey a topographic survey of all surface features within the project limits will be performed to serve as the base model for all engineering design. The topographic survey will consist of two primary components, 2D planimetrics of existing features and a 3D digital terrain model (DTM).
- Standard Accuracy. Except when authorized by the City Surveyor to perform aerial mapping (using manned aircraft), the topographic survey shall conform to the following accuracy requirements. The survey shall have an absolute horizontal accuracy of ± 0.1 feet relative to the project coordinate system, as permitted by the positional certainty requirements for Engineering Design Topographic Surveys per NAC 625.666. The survey shall have an absolute vertical accuracy of ± 0.1 feet relative to the project benchmarks. The survey shall have a relative vertical accuracy of ± 0.05 feet between any two points within 100 feet of each other.
- Accuracy with Aerial Mapping. When authorized by the City Surveyor to perform aerial mapping (using manned aircraft), the topographic survey shall conform to the following accuracy requirements. The survey shall have an absolute horizontal accuracy of ± 0.3 feet relative to the project coordinate system, as permitted by the positional certainty requirements for Engineering Design Topographic Surveys per NAC 625.666. The survey shall have a relative horizontal accuracy of ± 0.1 feet between any two points within 100 feet of each other. The survey shall have an absolute vertical accuracy of ± 0.5 feet relative to the project benchmarks. The survey shall have a relative vertical accuracy of ± 0.1 feet between any two points within 100 feet of each other.
- Verification. Sufficient verification check measurements shall be performed to ensure the survey data meets required accuracies. This applies to aerial mapping and LiDAR scanning data obtained from a third party vendor, as well as all data obtained through field measurements.
- Limits of Survey. The design engineer shall provide detailed topographic survey limits including any areas outside the right-of-way and/or behind the back of walk. If survey is required within an enclosed area on private property, permission for access shall be obtained by the design engineer. The project may require multiple noncontiguous survey areas.
- Topographic Features. The following surface features are to be included (but not limited to): curbs, gutters, pavement edges, gradebreaks (improved and unimproved surfaces), traffic markings, signs, walls, fences, buildings, vegetation, manholes, vaults, pullboxes, pedestals, utility poles, drop inlets, and street and park furniture.
- Planimetrics Content and Level of Detail. The planimetrics data shall at a minimum indicate the following information about all topographic features within the requested survey limits: curb widths, wall and fence type, wall widths, gate locations, ground surface types (e.g., concrete, asphalt, concrete pavers, grass, decorative rock, etc.), identification of all utility features (if possible), defined boundaries of all surface utilities larger than 2.5 feet in either direction (vaults, cabinets, etc.), building footprints (not envelopes), and complete pavement markings. **These requirements also apply to any areas where aerial mapping has been authorized.**
- DTM Structure and Level of Detail. The survey for the existing ground DTM shall include all gradebreaks modeled as breaklines within the survey limits including the following: breaklines that define the wings and backs of sidewalk ramps and driveways, the top and bottom of curb faces, lip of gutters, pavement edges, steps, top and toe of slopes, and flowlines. All breaklines shall be measured at minimum 50 foot intervals. In areas with very little slope tighter intervals may be necessary. The DTM shall also include spot elevations to determine all high and low points, and sufficient spot elevations to define relatively flat areas measured at minimum 50 foot grid intervals. In areas with very little slope tighter intervals may be necessary. No data shall be visible outside the surveyed area, including "voids" within buildings or large structure where no survey measurements were obtained. This can be accomplished using interior and exterior surface boundaries within Civil 3D. The DTM shall be presented as a single Civil 3D surface object, even if there are separated survey areas, so only a single existing ground DTM has to be referenced by the design engineer. This can be accomplished using hide and show boundaries within Civil 3D. **These requirements also apply to any areas where aerial mapping has been authorized.**
- Remote Mapping. All data captured through LiDAR scanning, photogrammetric drone mapping, and when authorized, manned aerial mapping is to be completely combined with all field survey data. Separate files containing data from different collection methods will not be accepted.

- **Deliverables:** The topographic survey files shall be incorporated into the 30% Design submittal and include: (1) A CAD file containing the survey planimetrics (2D linework and symbology); (2) A CAD file containing the existing ground DTM represented as a single Civil 3D surface; (3) all field raw data files, field notes, field survey points, raw aerial mapping CAD files, LiDAR point clouds, photogrammetric drone image files, and all ground control data used for any remote (aerial, LiDAR, drone) mapping methods. These files are to be prepared under the supervision of the project's Professional Land Surveyor unless prepared by a third-party remote mapping vendor.

102.1.4 Utility Survey

- **General.** The project may require supplemental utility surveying requested by the design engineer. These surveys shall be based on the project control survey and shall meet the standard accuracy for topographic surveying per 102.1.3 of this document.
- **Sanitary Sewer and Storm Drain.** In addition to the surface features obtained for the topographic survey, measurements made through surface access points may be necessary to model the underground piping and structures for both sanitary sewer and storm drain systems (sometimes referred to as "dips" or "inverts"). All efforts shall be made to locate these facilities as accurately as possible both vertically and horizontally. This includes accounting for cover offsets on eccentric cylindrical manhole structures. Pipes should not be connected from center of cover to center of cover if the center of cover does not represent the center of the manhole. In the case of non-cylindrical (box-shaped) structures and very large pipes or RCB's where directly measuring the pipes are not possible, interior structure scanning will be provided by the City Surveyor whenever requested. **Failure to request this scanning does not excuse inaccurate data.**
- **Gas and Water.** The design engineer may request measurements to obtain the depths of the top of underground gas and water valve stems (nuts). This information is only valuable to ascertain the minimum depth of the associated piping at that one location. The City will leave the decision on whether to obtain these measurements to the design engineer.
- **Utility Potholing and Designating.** Any surveying required to locate reference marks placed for utility potholing or designating (AKA line locating or tracing) shall be performed by the primary project surveyor. Surveys performed directly by the potholing/designating contractor or a third-party survey firm will not be permitted.
- **Overhead Utility Lines.** The design engineer may request measurements to obtain the horizontal and vertical location of overhead utility lines. All efforts shall be made to locate these facilities as accurately as possible both horizontally and vertically. These measurements shall be obtained either using a total station equipped with a reflectorless EDM or by LiDAR scanning. Scanning for this purpose will be provided by the City Surveyor whenever requested.
- **Deliverables:** Prior to completion of the contract all survey data associated with these activities shall submitted to the City.

102.1.5 Legal Descriptions

- **General.** Any legal descriptions required for right-of-way and/or easement acquisitions (or any other property transactions) shall be prepared by the primary project surveyor.
- **Format.** All legal descriptions shall be formatted as recordable 8.5x11 documents. They shall be prepared as metes and bounds, strip, or other mathematical-type descriptions which allow for the calculation of an accurate and true area. Any existing roadway alignments, right-of-way lines, property lines or easement lines used within the legal description shall have been "surveyed" and incorporated within the project control survey. The legal descriptions shall not contain the purpose of the legal description (i.e., no mentions of right-of-way dedication, traffic signal easement, fire hydrant easement, etc.). They shall be sealed by a Professional Land Surveyor.
- **Deliverables:** All legal descriptions shall be submitted for review. PDF copies are acceptable as preliminary submittals, and hardcopies with original signatures will be requested upon approval. Include copies of any documents referenced in the legal description that predate what can be acquired through the County Assessor's webpage with the initial submittal of any legal description.

102.1.6 The Consultant will coordinate any required private property access with the City's Representative.

102.2 Right-of-Way **NOT USED**

102.2.1 Consultant's professional land surveyor (Surveyor) will thoroughly conduct research of all available public records necessary to identify and establish the right-of-way limits. This shall include an investigation of all applicable Bureau of Land Management (BLM) files located at their Las Vegas Field Office whenever any portion of the proposed project area occupies BLM property. When available the City shall provide right-of-way records, studies and other available information. Surveyor will establish existing property lines and label all lots with the current owners name and APN and encumbrances in areas where right-of-way is to be acquired. Consultant will identify any additional right-of-way to be acquired. Consultant will prepare right-of-way drawings showing existing rights-of-way and easements and proposed rights-of-way and easements. Consultant will prepare property maps showing topographic areas, easements and vesting. Consultant shall coordinate with the City's Survey & Right-of-Way Section in the preparation of a right-of-way property schedule (all rights to be obtained or vacated, easements, rights of entry, construction easements as well as current status of the City's acquisitions) and regularly review and redline this schedule as to current status in coordination with the City's Survey & Right-of-Way Section. Where existing property is to be disturbed by construction, Consultant shall prepare 8 1/2" X 11" exhibits to be sent to affected property owners showing the location of Authorization to Enter Property (AEP) and the nature of the construction.

102.2.2 Based on the 30% design, the Consultant will identify any additional right-of-way, including permanent right of way and easements and AEPs to be acquired. A summary of proposed right of way acquisition will be provided by the Consultant in Microsoft Excel 2016 format in the format provided by the City Representative. During the 30% design review, the City will work with the Consultant to finalize project right-of-way requirements.

102.2.3 30% Submittal. Consultant shall prepare exhibits with an appropriate scale that shall show the project and identify all existing right-of-way, existing easements, and license agreements. Areas identified (preliminarily) for proposed right-of-way acquisition shall be shown on the exhibit and differentiated from existing right-of-way by color coding. In addition, Consultant shall provide an example format of right-of-way legal descriptions and AEP exhibit format for review. These exhibits and example formats shall be included with the 30% design submittal.

102.2.4 70% Submittal. Consultant shall prepare exhibits with an appropriate scale that shall show all needed right-of-way, easements, AEP's, and license agreements, etc. at the 70% design level. The Consultant shall provide legal descriptions as needed for all right-of-way easements, etc. that are required. The Consultant shall update the right-of-way property schedule, outlined in 102.2.1, to create an acquisition status table showing parcel numbers, acquisition type, acquisition status, property owner and contact information.

102.2.5 90% Submittal. Consultant shall update the exhibits showing the acquired right-of-way, easements license agreements, and AEP's. The acquisition status table shall be updated and submitted to the City for review.

102.2.6 100% Submittal. Consultant shall update the exhibits to show the acquired right-of-way, easements and AEP's. The acquisition status table shall be updated and submitted to the City for review. Consultant shall clearly identify, in the acquisition table, any right-of-way, license agreements, easements or AEP's that have not been acquired and an explanation for not having acquired the right-of-way, easement or AEP.

102.2.7 Prior to Bid. Prior to bid the Consultant shall cross check the right-of-way map verses the acquisition table, verify existing property owner information and provide a letter summarizing the result of the check and identifying any right-of-way, easements or AEP's not yet acquired.

102.2.8 Deliverables: Exhibits at the 30%, 70%, 90% and 100% submittals as outlined in 102.2.3 through 102.2.6; Letter summarizing Right-of-Way, Easements and AEP status as outlined in 102.2.7.

102.3 Records Review, Information Research and Analysis of Data

102.3.1 Consultant shall review data and information from the City including assessor's maps, parcel maps, improvement plans, drainage studies, utility plans, geotechnical studies, aerial topographic mapping and land development mapping currently being processed by the City which will likely affect the Project. Consultant shall provide ongoing supplemental research of public records during Project development.

102.3.2 The Consultant will review all data collected to determine impact/significance with regard to the Project and incorporate useful information into the Project documents. The Consultant will also identify deficiencies in the data collected and make recommendations for additional information needed for the successful completion of the project.

102.3.3 The Consultant will conduct field investigations, as necessary during the length of the project, to determine the location of collection facilities, establishment of problem flooding areas, existing drainage facilities, utilities, street improvements and other appurtenant items that may help in the development of the Project design. The Consultant will take pictures during the field investigation to document field conditions throughout the Project.

102.3.4 The Consultant will locate and map existing traffic signal equipment including traffic signal controller, service pedestal, poles, pull boxes, conduit, conductors, and detector loops. Prepare traffic signal plan for each intersection showing existing traffic signal equipment and showing replacement loop detectors if disturbed. Coordination with city Las Vegas TEFO is required for this task. **NOT USED**

102.4 Subsurface Utility Engineering (SUE) Services

102.4.1 Work Standards

- Except as may be modified or specified herein, or otherwise approved by the City, the collection and depiction of information, and any required submittals, shall conform to the applicable provisions of CI/ASCE 38-02, "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data" (Current Version). A copy of CI/ASCE 38-02 may be ordered from the American Society of Civil Engineers at www.asce.org.
- It is intended that this Scope of Work be construed harmoniously with CI/ASCE 38-02; however, in the event of conflict, the provisions of this Scope of Work shall take precedence.
- All surveying activities associated with SUE services as defined herein shall be conducted only by a Nevada Professional Land Surveyor. Surveying activities associated with SUE services shall only be conducted by the surveyor providing control for the project.

102.4.2 Quality Level D Tasks

- Conduct appropriate investigations (e.g. owner records, DOT records, UNCL records, County records, personal interviews, visual inspections, etc.), to help identify utility owners that may have facilities within the project limits or that may be affected by the project.
- Collect applicable records (e.g., utility owner base maps, "as built" or record drawings, permit records, field notes, geographic information system data, oral histories, etc.) on the existence and approximate location of existing involved utilities.
- Review records for: evidence or indication of additional available records; duplicate or conflicting information; needed for clarification.

102.4.3 Quality Level C Tasks

- Identify surface features, from project topographic data (if available) and from field observations, which are surface appurtenances of subsurface utilities.
- Survey surface features of subsurface utility facility or systems, if such features have not already been surveyed by a registered professional.
- Survey shall also include determination of invert elevations of any manholes and vaults; sketches showing interior dimensions and line connections of such manholes and vaults; any surface markings denoting subsurface utilities, furnished by utility owners for design purposes.

102.4.4 Quality Level B Tasks

- Select and apply appropriate surface geophysical method(s) to search for and detect subsurface utilities within the specified project limits and/or to trace a particular utility line or system. QL B to be determined after 30% design; QL B task will be paid for by Additional Services.

102.4.5 Quality Level A Tasks

- City may require QL A data where the precise horizontal and vertical location of utilities, obtained by exposure and survey of the utility at specific points, is needed for conflict assessment/resolution purposes.
- When available, verifiable information on previously exposed and surveyed utilities (such as survey records during utility line construction) shall be furnished in lieu of new excavation, exposure, and survey at that same point, or at a suitable nearby point.

- Otherwise, when utility lines must be exposed and surveyed at specified locations, the Consultant shall use minimally intrusive excavation techniques, acceptable to City, that ensure the safety of the excavation, the integrity of the utility line to be measured, and that of other lines which may be encountered during excavation.
- Measure and/or record the following information on an appropriately formatted test hole data sheet::
 - For utilities that are concrete encased, identify the top of the encasement, the bottom of the encasement, and the width of the encasement.
 - Elevation of existing grade over utility at test hole.
 - Horizontal coordinates referenced to project coordinate datum, to a horizontal accuracy consistent with applicable City survey standards.
 - Field sketch showing horizontal location referenced to a minimum of three (3) swing ties to physical structures existing in the field and shown on the project plans.
 - Approximate centerline bearing of utility line.
 - Outside diameter of pipe, width of duct banks, and configuration of non-encased multi-conduit systems.
 - Utility structure material composition, when reasonably ascertainable.
 - Identity of benchmarks used to determine elevations.
 - Utility facility condition.
 - Pavement thickness and type when applicable.
 - Soil type and site conditions.
 - Identity of utility owner/operator.
 - Other pertinent information as is reasonably ascertainable from test hole.
- Patching of potholes will meet City of Las Vegas, NDOT, Clark County or other jurisdictional (if applicable) requirements, including hot patches, keyhole, polymer bag mix or concrete plug. No cold patches will be utilized. Final payment for potholing will be based on completed potholes and require proof of permit close out for said potholes.
- A total of twenty (20) are anticipated to be performed for this Project. Additional utility potholing services not contemplated in this scope of work will be paid for separately under Additional Services upon separate authorization by the City.
- Exercise professional judgment to correlate data from different sources, and to resolve conflicting information.
- Update "Existing Utility Location Plan", plan/profile sheets, electronic files, and/or other documents to reflect the integration of QL D, QL C, QL B, and QL A information. Consultant shall use the information to create the Utility Base drawing to be used in the design drawings.
- Recommend follow-up investigations (e.g., additional surveys, consultation with utility owners, etc.) as may be needed to further resolve discrepancies.
- As appropriate, amend the indicated quality level of depicted information

102.4.6 SUE Deliverables

- Consultant shall prepare a separate "Existing Utility Location Plan" that clearly depict applicable SUE levels as outlined in CI/ASCE 38-02: "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data," American Society of Civil Engineers, 2003. To show at a minimum:
 - Existing rights-of-way
 - Centerlines and control alignments
 - Easements
 - Existing topographical information
 - All utilities within the project limits
 - QL A test hole locations
- Appropriately formatted test hole data sheets as described in QL A tasks above to be included with the final plans.
- Electronic files of the updated "Existing Utility Location Plan" at each regular submittal.

102.5 Geotechnical Investigation - The Consultant shall provide a Geotechnical Report as detailed below, the drafts of these reports will be included with the 30% Design Phase Submittal:

102.5.1 The Geotechnical Report is a compilation of geotechnical information about the Project site discovered during investigations. This report may include boring logs, tests, interpretations and recommendations. The Geotechnical Report shall be made available to bidders for informational purposes only. Bidders and the Contractor are solely responsible for assumptions, deductions and conclusions they may make or obtain from any such information.

102.5.2 It is anticipated that the geotechnical report may include, but is not limited to the following:

- Review pertinent background data, including in-house geotechnical data, readily available geotechnical reports, stereoscopic aerial photographs, published geologic maps, soils data, and literature.
- Perform a site reconnaissance along the subject road alignments to evaluate the existing pavement conditions. Areas that exhibit significant pavement deterioration and cracking will be documented.
- Perform laboratory testing on samples.
- Identify the corrosive characteristics of the soil.
- Locate ground water elevations at each of the borings if the groundwater level is above the bottom of the boring;
- Identify caliche and cemented soil deposits depth and make recommendations for excavation methods.
- Provide geotechnical recommendations for use in design of foundations, including allowable bearing capacity, passive pressure, coefficient of friction and estimated settlements, lateral resistance of the soil, recommendations for lateral support, excavated slope stability and data on excavated materials encountered and groundwater levels.
- Provide recommendation and definition for suitable and unsuitable materials.
- Make recommendations for the treatment and/or removal of unsuitable bearing soils.
- Make recommendations for trench safety during excavation.
- Make recommendations for pavement section, excavation and backfill requirements for bedding, pipe zone, trench backfill, fill placement, suitability of existing soils for use as backfill materials and asphalt pavement.
- Provide boring logs to include if any, existing pavement and base course thicknesses and subsurface materials compositions. Borings to be marked in the field and to be surveyed, field identified, and included in the plans.
- Make recommendations for excavation and backfill requirements for bedding, pipe zone, trench backfill, asphalt pavement resurfacing and fill placement, suitability of existing soils for use as backfill materials. Make recommendation for cut/fill slopes and percent shrinkage for embankment.
- Make recommendations for type of cement for concrete in contact with onsite soils, structural recommendations, and other conditions applicable to the Project.
- Prepare a hydro-geological report in areas where shallow groundwater is discovered.
- Make recommendation for trench patching.
- If any hazardous materials are discovered or suspected at any time during the geotechnical investigation, notify the city in writing within one week.

102.5.3 Patching of borings will meet City of Las Vegas, NDOT, Clark County or other jurisdictional (if applicable) requirements, including hot patches, keyhole, polymer bag mix or concrete plug. No cold patches will be utilized. Final payment for the geotechnical report will be based on completed proof of permit close out for said borings.

102.5.4 The Consultant shall prepare a written report presenting the findings, conclusions, and geotechnical recommendations for the design and construction of the proposed improvements, including recommendations regarding pavement section thickness based on AASHTO design criteria, structural bearing capacity, earthwork and backfill requirements.

102.5.5 It is understood that the City may make and distribute copies of reports and boring logs as necessary in connection with the Project without incurring obligation for additional compensation.

102.5.6 Deliverables: The Consultant shall provide two (2) bound copies of the Geotechnical Report to the City's Representative with the 30% Design Submittal. Drafts of these reports are to be included in the Basis of Design Report, when applicable.

102.6 30% Design Phase Submittal**102.6.1 30% Design Phase Plans**

- The 30% plans are to be prepared for the preferred overall Project Alternative and limits as agreed on and directed by the City of Las Vegas and CCRFCD. The north arrow on all plan sheets shall point to the top or right side unless otherwise approved by the City. The plan and profile sheets shall be at 1" = 40' scale (or other scale as directed or approved by the Engineer) and appropriate vertical scale with stationing from left to right. All lettering shall be of sufficient size and clarity to permit easy reading when reduced to 11"x17" sheets.
- City Standard Cover Sheet identifying Project Participants
- Note sheet with plan index, vicinity map, benchmark, and basis of bearings
- Notes Sheet with General Notes, LVVWD Notes, and City of Las Vegas Sewer, Traffic, Grading, Fire Department, Street Lighting, and Encroachment Permit Notes
- Abbreviations and Symbols
- Horizontal Control Plan identifying Project limits, horizontal control for centerline and rights-of-way, monumentation and sheet index
- Recorded Record of Survey as part of Horizontal Control Plan (to be included in all submittals hereafter as well)
- Sheet Index with key map
- Typical Cross Section Sheets
- Removal Plans
- Roadway Plan and Profiles **NOT USED**
- Storm Drain Plan and Profiles
- Utility Plans
- Existing Utility Location Plan (SUE Plans)
- Traffic Striping and Signing Plans **NOT USED**
- Traffic Lighting Plans, including existing traffic lighting **NOT USED**
- Traffic Signal Plans, including existing traffic signal infrastructure **NOT USED**
- DTM Earthwork cross-sections plotted at 50 foot intervals and/or grade breaks with cut and fill quantities included (as a stand-alone exhibits to the submittal)
- **Deliverables:** Submit five (5) copies of 11"x17" plans and all associated electronic files to the City: Submit to NVE, Southwest Gas, LVVWD, AT&T, Century Link, and Cox Cable per agency requirements; Submit copies of 30% Plans to utilities (size determined by each individual Utility Company) as necessary for review by the utility companies.

102.6.2 Basis of Design Report

- The results and summaries of items identified in the preceding work above are to be included in a Basis of Design Report. The BODR will include pertinent aspects of the project explored to date, including all design criteria and assumptions used to develop the design and any alternatives. Probable construction costs will be estimated based upon recommendations made in the BODR and will be broken out by funding source. The BODR will include, but is not limited to, the following:
 - Cover page
 - Table of Contents
 - Executive Summary
 - Transmittal memo stamped and signed by the Consultant Project Manager
 - Inventory of existing conditions, including photo library
 - Adjacent completed projects summary
 - Design controls and assumptions
 - Flows and loads summary from last 5 years
 - Existing and proposed hydraulic grade lines from the plant influent to effluent of Primaries 3-6
 - Survey Summary (including Record of Survey and approval from City Surveyor)
 - Right of Way Summary (including a summary of proposed right of way acquisition will be provided by the Consultant in Microsoft Excel 2016 format in the format provided by the City Representative)
 - Utility Issues and Conflicts Summary
 - Summary of Permits (including a summary matrix of required permits)
 - Draft Geotechnical Report

- Draft Hydrogeologic Report
 - Preliminary Traffic Study **NOT USED**
 - Preliminary Drainage Study (including hydraulic analyses)
 - Bridge Type Selection Report **NOT USED**
 - The Evaluations and Condition Assessments listed.
 - Recommended improvements with preliminary design criteria
 - 30% Design Phase Plans for,
 - Hydraulic Profile
 - Process and Instrumentation Drawings (PIDs)
 - Influent metering, flow bypass, and coarse screens
 - Coarse screenings building
 - Fine screenings building improvements
 - Grit Removal Improvements
 - Ferric Improvements
 - Cutsheets of proposed equipment.
 - Electrical Load Study
 - General structural basis of foundation design
 - Maintenance of Operations during Construction
 - Preliminary List of Specifications
 - Construction Cost Estimate (Class 4)
- Comments received on the Basis of Design Report will be addressed in writing and included in the final Basis of Design Report. Adjustments will be made to the associated design and analysis as necessary. Documentation of the changes made such as physical copies of plans, models, and calculations will be submitted with the final Basis of Design Report.

102.6.3 Deliverables: Submit **two** (2) copies of the Basis of Design Report to the City and all associated electronic files; Submit the Basis of Design Report to NDEP per agency requirements.

102.6.4 Quality Control/Quality Assurance (QC/QA) Review to be performed as outlined in 100.6.6

- **Deliverables:** Submit QC/QA certification letter. Submit quality assurance review set of plans, quantities of materials as applicable.

102.7 Walk Through

After submittal of the 30% Design and the Basis of Design Report, the Consultant will schedule a project walk through with the City Representative and other relevant parties, including other public agencies and utility providers. The intent of the walk through is to identify field conflicts in order to minimize potential significant changes to the design after the 30% Submittal.

- **Deliverables:** The Consultant shall submit a walk through Memorandum to the City's Representative to document field observations.

102.8 Response to Comments – After the 30% design review meeting and walk through, Consultant shall address all comments received from City Staff, Utility Companies, and other Agencies.

- **Deliverables:** The Consultant shall submit comment matrix with response to comments in format provided by City. This shall also include any electronic reviews (e.g. Bluebeam sessions). This does not include incorporating the changes in the design drawings.

102.9 CMAR Solicitation and Selection Assistance

102.9.1 CMAR Request for Proposals

The Consultant will assist the City in preparing a CMAR contractor request for proposals (RFP). The RFP will be in compliance with Nevada Revised Statutes (NRS) 338.1692 and contain, but is not limited to, the following:

- Description of the work and BODR
- Cost estimate
- Key schedule milestones
- Contractor qualifications and experience
- Proposal selection criteria and weighting for ranking
- Safety programs and history
- Required licensure

Deliverables

CMAR RFP edits and comments.

102.9.2 CMAR Proposal Evaluation

Consultant will assist the City in evaluation of the contractor proposals and ranking. It is anticipated that the top 3 contractors will be short-listed for interviews. Consultant will sit on the interview panel and provide feedback to the City from the interview, including the interview scoring. It is anticipated that the City will select the top ranked contractor from the combined scoring of the proposal and interview to enter into an agreement for CMAR and construction services.

Deliverables

CMAR proposal review comments and scoring. CMAR interview comments and scoring.

103 70% DESIGN PHASE **NOT USED**

103.1 70% Design Phase Submittal

103.1.1 Draft Final Design Report and Detailed Hydraulic Analysis – The Consultant shall develop detailed hydraulic models for the conveyance facilities using HEC-RAS, WSPG or other appropriate computer programs. The hydraulic models will provide information on the hydraulic grade line, energy grade line, flow velocity and depth and other pertinent hydraulic parameters. The storm drain facilities and lateral pipes will be included in the hydraulic models. In addition, riprap rock and drop inlet sizing calculations will be performed. If required 10 year and 100 year hydraulic analysis facility sizing and cost estimates will be prepared to determine RTC versus RFCD costs.

Documentation of the hydraulic analyses will be compiled and submitted in a Draft Final Design Report. This report will also include any information, calculations or models that were revised since the Preliminary Design Report was submitted.

- **Deliverables:** Submit five bound and one unbound full size sets (24" X 36"); eight bound and one unbound half size sets (11" X 17") of the 70% Design Phase Plans to the City.

103.1.2 70% Design Phase Plans – This submittal will include further refinement of the 30% Design Phase Submittal and response to comments. Plans shall be identified with the level of design with Engineer's seal in accordance with NRS 625. The 70% plans shall include all items from the previous submittal, and the following:

- Roadway Plan and Profiles (Including centerline and top of curb profiles)
- Construction Details
- Storm Drain Plan and Profiles (including lateral plan and profiles)
- Storm Drain Details
- Existing Utility Location Plan (SUE Plans) (including pothole information)
- Structural Drawings
- Grading Details for all sidewalk ramps
- Special Details as required for the Project
- School Flashers

- FAST Interconnect Plans
- Detour Plans
- Traffic Control Plans
- Bridge Design Drawings and Details

- **Deliverables:** Submit five (5) copies of 11"x17" plans and all associated electronic files to the City.

103.1.3 70% Design Phase Construction Cost Estimate - a Project cost estimate broken out by funding source, bid item, and plan sheet shall be prepared by the Consultant.

- **Deliverables:** Submit the 70% cost estimate by funding source to the City in electronic format (excel spreadsheet, pdf format will not be accepted).

103.1.4 ADA/PROWAG Design Memorandum – Consultant shall design the project to conform to PROWAG. If there are limitations triggered by existing infrastructure and PROWAG cannot be implemented, a summary for each location with a written description of the situation, photos, plans, and any other pertinent back up shall be provided for city files explaining the details and rationale for the final design. This only applies when PROWAG cannot be met.

- **Deliverables:** Submit one (1) copy in both hard copy and electronic format of the ADA/PROWAG Design Memorandum to the City.

103.1.5 Quality Control/Quality Assurance (QC/QA) Review to be performed as outlined in 100.6.

- **Deliverables:** Submit QC/QA certification letters. Submit quality assurance review set of plans and quantities of materials.

103.2 70% Walk Through - At the direction of the City, Consultant shall schedule a walkthrough of the Project with City of Las Vegas personnel and other stakeholders (as determined by the City) during the 70% Design Phase period. The Consultant will note any changes or adjustments to the plans as needed to fit field conditions and incorporate these changes into the 90% submittal.

104 90% DESIGN PHASE **NOT USED**

104.1 90% Design Phase Submittal

104.1.1 Final Design Report - Consultant shall compile all comments and written responses to comments along with all final design information, calculations and models and include in a standalone Final Design Report to be used as a record for the basis of design for the project. The Final Design Report shall include all information included in the PDR and Draft Final Design Report and all associated revisions made as applicable.

- **Deliverables:** Submit two (2) copies of the Final Design Report to the City.

104.1.2 90% Design Phase Plans – This submittal will include further refinement of the 70% plans (including any necessary structural details) to reflect 90% completion and response to comments. The 90% plans shall include all the utility conflicts and the resolutions and shall be checked against the geotech report to verify compatibility of the design. The 90% plans shall include construction and right-of-way lines and all encroachments onto private property with proposed improvements.

- **Deliverables:** Submit five (5) copies of 11"x17" plans and all associated electronic files to the City.

104.1.3 90% Design Phase Construction Cost Estimate - a Project cost estimate broken out by funding source, bid item, and plan sheet shall be prepared by the Consultant.

- **Deliverables:** Submit the 90% cost estimate by funding source to the City in electronic format (excel spreadsheet, pdf format will not be accepted).

104.1.4 90% Design Phase Special Provisions - The Project Special Provisions shall be submitted utilizing the City's standard boilerplate set of Special Provisions provided. The Project Special Provisions shall use the same format as the Uniform Standard Specifications for Public Works' Construction Off-Site Improvements Clark County Area Nevada. All items of construction shown on the 90% Project Plans shall be represented in the Special Provisions as bid items utilizing the corresponding related specification section's nomenclature. The applicable items shall be described for the method of "Measurement" and "Payment" subsection for each section.

- **Deliverables:** Submit five (5) copies of the bound Special Provisions to the City.

104.1.5 ADA/PROWAG Design Memorandum – Consultant shall finalize the Design Memorandum prepared with the 70% plans and be responsible to keep this document current through construction completion with any changes that would impact the locations not designed to PROWAG.

104.1.6 Quality Control/Quality Assurance (QC/QA) Review to be performed as outlined in 100.6.

- **Deliverables:** Submit QC/QA certification letter. Submit quality assurance review set of plans, quantities of materials, and specifications.

104.2 BUY AMERICA(N) COMPLIANCE. NOT USED

104.3 90% Walk Through - At the direction of the City, Consultant shall schedule a walkthrough of the Project with City of Las Vegas personnel and other stakeholders (as determined by the City) during the 90% Design Phase period. An inventory of all items of work shown on the plans will be verified and compared to field conditions. The Consultant will note any changes or adjustments to the plans as needed to fit field conditions. The Consultant will note any changes or adjustments to the plans as needed to fit field conditions and incorporate these changes into the 100% Design Phase Submittal.

104.4 Bidability and Constructability (B&C) - Consultant shall coordinate with a City selected B&C consultant or City in-house B&C review team. The Consultant will provide the B&C consultant or in-house B&C review team with the 90% submittal and Final Design Report (and any other documents necessary to complete the B&C review). The City may also chose to provide the B&C consultant or in-house B&C review team with earlier submittals for review. Consultant shall attend meetings and respond to comments as required to resolve disagreements on B&C comments.

104.5 Project Presentations - Consultant shall prepare for and make Project presentations to any organization or board, including preparation of graphics and backup information. The following presentations are anticipated:

- **Regional Flood Control District Citizens Advisory Committee** - Consultant shall prepare graphic presentation materials and backup information required for agenda items in accordance with CCRFCD Policies and Procedures
- **Regional Flood Control District Technical Advisory Committee** - Consultant shall prepare graphic presentation materials and backup information required for agenda items in accordance with CCRFCD Policies and Procedures
- **Regional Flood Control District Board** - Consultant shall prepare graphic presentation materials and backup information required for agenda items in accordance with CCRFCD Policies and Procedures
- **Deliverables:** Board attendance; backup materials; presentation materials.

104.6 Finalize Permit Applications – The Consultant shall finalize all permit applications and submit all required permits to the appropriate agencies.

105 100% DESIGN PHASE NOT USED

105.1 The 100% submittal shall include all the elements of Section 104, which shall be advanced to a completed level of design and shall incorporate comments from the 90% submittal. The 100% submittal will consist of two steps: (1) a 100% pre-final (bond) submittal will be made for final comment by the City, and (2) the Consultant will incorporate all comments on the pre-final submittal into the 100% final (bond) submittal. Plan set bond and copies sealed in accordance with NRS 625, sealed Special Provisions, including Bid Proposal and Construction Cost Estimate shall be submitted to the City. The Engineer's estimate broken out by bid item, plan sheet and funding source will be submitted as a Microsoft Excel Work Sheet electronic file. The Consultant shall coordinate with utility companies and obtain all utility signatures on the Cover Sheet and elsewhere in the plans as required. Consultant shall submit a pre-final bond set of the final plans before preparing the final bond set for this project.

105.2 Deliverables for the 100% Pre-Final (Bond) Submittal: Submit two copies of the 11"x17" plans, all associated electronic files, two copies of the bound Special Provisions and 100% Pre-final Cost Estimate by funding source to the City. Submit two copies of structural calculations to the City; Submit

105.3 Deliverables for the 100% Final (bond) Submittal: One set of 24" X 36" bond plan sheets stamped and signed by a Nevada P.E. which includes the cover sheet containing all approval signatures; One set of original Special Provisions (unbound) stamped and signed by a Nevada P.E.; One copy of the Final Cost Estimate; and electronic copies of all project documents.

106 BID PHASE NOT USED

106.1 Pre-Bid Conference

106.1.1 The Consultant shall attend the pre-bid conference

106.2 Bid Requests and Responses

106.2.1 Consultant shall respond to questions raised by bidders during the bidding process. Decisions on issuing addenda will be conducted by the City. The Consultant will draft required specifications, plan changes and clarifications for the City to include in any addenda.

106.3 Bid Opening

106.3.1 At the City's request, the Consultant shall attend the bid opening and review the bid abstract and contractor qualifications.

106.3.2 The Consultant will comment on any bid discrepancies, evidence of unbalanced bid or contractor concerns uncovered during reviews.

106.4 Conformed Contract Documents

106.4.1 Subsequent to bid opening, the Consultant shall prepare and issue a conformed set of Contract Documents including specifications and drawings which incorporate any modifications and/or clarifications issued during the Bid Phase. Within 14 calendar-days after bid opening, the consultant shall submit two copies of the 11"x17" plans, two full-size plans, all associated electronic files, three copies of the bound Special Provisions to the City. Both the hard-copy and electronic versions shall be clearly marked as "Conformed" and include the date of issuance.

107 CONSTRUCTION PHASE NOT USED

107.1 Pre-Construction Meeting

107.1.1 The Consultant shall attend the pre-construction meeting.

107.2 Submittal Review

107.2.1 Consultant shall review Contractor's submittals for manufacture certifications, installation instructions, shop drawings and service connections; review Contractor's submittals (such as value engineering items, sample products, etc.).

107.3 Construction Support Services

107.3.1 The Consultant's support services during the construction phase of the project include but are not limited to:

- Project Site Visits to examine construction work
- Attend construction progress meetings, as necessary
- Respond to Contractor's Request for Information (RFI)
- Additional Design as needed to address RFIs
- Assist with the processing of construction change orders
- Third Party review of change order costs
- Attend final walk-through
- Assist with the punch list preparation

108 POST CONSTRUCTION PHASE NOT USED

108.1 Record Drawings

108.1.1 As an additional service to be authorized by the City, Based upon the Consultant's knowledge of the changes in the Project during the Construction Phase and review of the Contractor's final record documents, prepare Record Documents for the Project. The Consultant shall review and approve the Contractor's final record documents for clarity and completeness, coordinate needed corrections, and drafting all final corrections and coordination items submitted by the Contractor using the software package AutoCAD Civil 3D version 2018 or newer. The Consultant shall prepare and submit one (1) set of completed documents in electronic format and signed (but not sealed) reproducible format to the City. [NOTE TO SCOPE WRITER, in general, as-builts are prepared by the contractor and City construction management staff and scanned for submittal to the City Plans Library – include "Completion of Record Drawings" if the Consultant is expected to provide as-builts.]

- **Deliverables:** As-builts

END OF EXHIBIT "A"

EXHIBIT B

REQUIRED SUBMITTALS

200 SUBMITTALS

200.1 GENERAL

When requested by the City, electronic files shall accompany hard copies for all submittals referenced in this paragraph and unless otherwise directed by the City. All cost estimates shall be provided in Microsoft Excel format, all schedules in Microsoft Project format, all Special Provisions in Microsoft Word format, all Bid Schedules in Microsoft Excel format and all spreadsheets associated with additional service requests in Microsoft Excel format. Pdf submittals will not be accepted unless specifically requested by the City.

All submittal requirements are outlined in Exhibit A – Scope of Services. Consultant shall refer to deliverables or other submittal requirements outlined in Exhibit A.

END OF EXHIBIT “B”

EXHIBIT C

PERFORMANCE SCHEDULE

300 NOTICE TO PROCEED

300.1 The start date for the Consultant's scope of services shall be, without any further notice requirement, the date of this Contract signed by the parties. The Consultant shall perform the services required as expeditiously as is consistent with professional skill and care and the orderly progress of the Project. The Scope of Service set forth in this Contract and the compensation to the Consultant for said Scope of Services is based upon the Consultant and the City each performing its responsibilities in a timely manner.

300.2 Performance Schedule. The parties hereto have agreed to a general performance schedule (the "Performance Schedule") which is set forth herein. Subsequent to the execution of this Contract, the Consultant shall furnish to the City's Representative for approval a more detailed schedule of performance (herein the "Detailed Performance Schedule").

300.3 Revised Performance Schedule. If the Consultant's performance is delayed or the sequence of tasks changed, the Consultant shall notify the City's Representative in writing of the reasons for the delay or the change. The Consultant shall then prepare a revised General and Detailed Performance Schedule for submission to and approval by the City's Representative.

301 PERFORMANCE SCHEDULE

301.1 The maximum allowed time to complete each phase of the work is shown in the following table:

PHASE	CALENDAR DAYS TO COMPLETE	REMARKS
CONDITION ASSESSMENTS & EVALUATIONS	265	
BODR/30% DESIGN PHASE	344	It is assumed that all City review comments will be presented during Workshops.
TOTAL CALENDAR DAYS TO COMPLETE:	372	

302 DESIGN AND PERMITTING SCHEDULE DELAYS

302.1 The Consultant declares that they are experienced and knowledgeable with all governmental, agency, and utility company design approval processes, procedures, applications, fees, design standards, reviews, required corrective actions, and time schedules required for the Project, and that the schedule set forth for the Scope of Services is reasonable and achievable within these design approval parameters.

302.2 Although it is acknowledged that neither the City nor the Consultant have full control over these design approval processes, the Consultant shall be held accountable for any impacts to the City resulting from their actions or lack of actions, including but not limited to their failure to make timely submittals, their failure to routinely follow-up on submittals, their failure to notify the City of anticipated delays and required design changes, and their failure to process and re-submit comments and corrections received in a timely manner.

303 CONSTRUCTION

303.1 No adjustments shall be made to the Post Construction Phase fee due to extended schedules.

END OF EXHIBIT "C"

EXHIBIT D
FEE BREAKDOWN

400 TOTAL COMPENSATION

400.1 The total compensation to be paid to the Consultant for performance of this Contract including Basic Services and Additional Services Allowance shall not exceed \$ \$2,767,514. Increases to total compensation may only be authorized by written amendment to this Contract. This total compensation amount is comprised of the parts described in this Exhibit “D” (Fee Breakdown).

401 BASIC SERVICES PAYMENT BASED UPON COMPLETION OF TASKS

401.1 The City agrees to pay the Consultant on the basis of direct salary (Exhibit E – Section 500), times a multiplier of 3.1, plus approved non-salary expenses identified in Section 7.4 and Exhibit E based on the Consultant’s acceptable completion of the Scope of Services (Exhibit “A”). The Consultant agrees to perform the services necessary to complete each task and, if applicable, each subtask, not to exceed the fee set forth in this Exhibit “D” (Fee Breakdown). Payment shall be made for completed tasks pursuant to monthly invoices submitted in accordance with this Contract.

BASIC SERVICES		REMARKS
TOTAL NOT TO EXCEED COST	\$ 2,717,514	

401.2 Payments made under this contract will be in accordance with Section Seven - Compensation and Terms of Payment.

401.3 The scope of work for each of the tasks may be adjusted by the City Representative over the course of the Project, including establishing new tasks or the deletion of listed tasks. The cost of these adjustments shall be calculated utilizing direct salaries and subconsultant costs as detailed in Exhibit E. Work performed will be invoiced and paid in accordance with Section Seven.

401.4 The City Representative shall have the authority to make such work scope adjustments to the line item tasks contained within Basic Services without processing this Contract for an amendment or additional services authorization, if (1) the revisions are documented and agreed to by the Consultant and City in writing prior to performance, (2) the Total Not to Exceed Cost for Basic Services is not exceeded, and (3) the change(s) are within the scope of the Project.

EXHIBIT D-1: BASIC SERVICES FEE BREAKDOWN

Task No.	Task Description	Total Cost (\$)
101	Preliminary and General Items	
101.1	Project Management	\$664,600
101.2	Kick-Off, Design Progress, and CMAR Meetings	\$181,005
101.3	Utility and Agency Coordination	\$17,240
101.4	Project Permits	\$18,356
101.5	Public Outreach (Not Used)	\$0
101.6	Other Tasks	\$0
101.6.1	Workshops	\$275,326
101.6.2	Condition Assessments & Evaluations	\$668,511
	Subtotal Task 101	\$1,825,038
102	30% Design Phase	
102.1	Survey and Lidar Scanning	\$79,780
102.2	Right-of-Way (NOT USED)	\$0
102.3	Records Review, Information Research and Analysis of Data	\$19,144
102.4	Subsurface Utility Engineering (SUE) Services	\$61,426
102.5	Geotechnical Investigation	\$88,084
102.6	30% Design Phase Submittal	\$0
102.6.1	30% Design Phase Plans	\$196,652
102.6.2	Preliminary Design Report	\$336,380
102.7	Walk Through	\$14,006
102.8	Response to Comments	\$97,004
102.9	CMAR Solicitation and Selection Assistance (NOT USED)	\$0
102.9.1	CMAR Request for Proposals (NOT USED)	\$0
102.9.2	CMAR Proposal Evaluation (NOT USED)	\$0
	Subtotal Task 102	\$892,476
		\$0
	TOTAL	\$2,717,514

402 ADDITIONAL SERVICES ALLOWANCE

402.1 A Not-To-Exceed Allowance for Additional Services is hereby established as set forth below. The City shall pre-authorize in writing Additional Services up to the Total Not-To-Exceed Cost. Services performed prior to receiving the required written authorization from the City or in excess of the Total Not-To-Exceed Cost shall not be obligated for compensation.

402.2 Additional Services are services provided in the interests of the Project that are not set forth in Exhibit "A" (Scope of Services).

402.3 The Consultant shall be compensated for Additional Services in accordance with the Consultant Hourly Rates established in Exhibit "E" (Compensation). Additional Service compensation disputes shall be resolved in accordance with the claims and disputes provisions of this Contract and shall not be cause for the Consultant to delay providing requested services. Payment shall be made for each completed Additional Service pursuant to invoices submitted in accordance with this Contract.

402.4 Reimbursable Expenses may be compensated from this Allowance for Additional Services to the extent they are allowed by Exhibit "E" (Compensation). Payment shall be made for each completed Reimbursable Expense pursuant to invoices submitted in accordance with this Contract. Expenses not listed in Exhibit "E" (Compensation) as allowed Reimbursable Expenses shall not be compensated without amendment to this Contract to allow them as Reimbursable Expenses.

402.5 Increases to this Total Not-To-Exceed Cost for Additional Services may only be authorized by written amendment to this Contract.

ADDITIONAL SERVICES ALLOWANCE		ALLOWED SERVICES
TOTAL NOT-TO-EXCEED COST	\$ 50,000	See list below.

402.5.1 Additional Services may include, but are not limited to, the following:

- Additional Early Release Design Packages
- Addenda – As required by the City, the Consultant shall assist the City with the preparation of contract addenda during the bid process.
- Additional Design Services – As required by the City, Consultant shall perform additional design services required for the Project.
- Additional Topographic Survey – As required by the City, Consultant shall obtain additional field measurements to supplement the original topographic mapping as requested by the client.
- As-Built – As requested by the City, Consultant shall provide As-Built.
- Construction Assistance – As required by the City, Consultant shall attend progress meetings during construction of the Project.
- Dam Safety Permit – As required by the City, Consultant shall coordinate with the State Engineer's Office and update the existing dam safety permit, if one is required for the Project.
- Drainage Study – As required by the City, Consultant shall prepare a Drainage Study for the Project.
- Facility Specific Environmental Assessment – As required by the City, Consultant shall prepare a Facility Specific Environmental Assessment.
- Hydrology and Hydraulics – As required by the City, Consultant shall provide additional hydrology and hydraulics.
- Master Plan Amendment – As required by the City, Consultant shall revise and resubmit the Master Plan Amendment already performed by the City of Las Vegas.
- Public Meetings – As required by the City, Consultant shall attend and participate in public meetings.
- Removal of Inflow/Infiltration Sources to Sanitary Sewer System – As required by the City, Consultant shall provide design plans that redirect inflow/infiltration sources to the sanitary sewer to other authorized discharge systems.
- Right-of-Way – As required by the City, Consultant shall obtain title report and legal descriptions, prepare exhibits and write legal descriptions in locations where additional right-of-way or easements are required for the Project.
- Section 404 Permit Application – As required by the City, Consultant shall prepare the permit application and conduct environmental analysis in support of the Section 404 Permit.

- Sewer Design – As required by the City, Consultant shall provide plan and profile design of new, reconstructed, or relocated sewer pipelines.
- Slope/Embankment Design – As required by the City, Consultant shall provide additional design for treatment (soil cement, slope paving, etc.) to the detention basin embankments and slopes.
- Storm Drain Retrofit Design – As required by the City, Consultant shall provide in-situ retrofit design of existing storm drain pipes.
- Structural Design – As required by design should the alternatives selection require a retaining walls, drainage structure or other structural design on the project.
- Title Reports – As required by the City, Consultant shall prepare Title Reports as required for the Project.
- Traffic Control Plans – As required by the City, Consultant shall provide additional design and drawings for traffic control throughout the project limits.
- Utility Potholing – As required by the City, Consultant shall provide additional utility potholing, prepare pothole location map and obtain information for subsurface utilities
- Waterline Design – As required by the City, Consultant shall provide plan and profile design of new, reconstructed, or relocated water pipelines.

END OF EXHIBIT "D"

EXHIBIT E
COMPENSATION

500 CONSULTANT HOURLY RATES

500.1 The following hourly rates represent the maximum allowable direct salary rate billable for payment of basic and additional services, as well as the basis for negotiation of added and reduced services. These hourly rates are valid for the duration of the Project and are representative of maximum direct salary costs. The Multiplier included in Exhibit D (Fee Breakdown) shall include associated overhead, administration, direct costs except as detailed in Section 7.3 and Exhibit E, and profit. This includes, but is not limited to, all support personnel who normally work on non-specific project tasks including but not limited to receptionists, senior executives together with their assistants, financial accounting personnel, and personnel maintaining facilities, equipment and computers.

CLASSIFICATION	MAXIMUM RAW HOURLY RATE
Specialist	\$168
Technical Advisor	\$121
Quality Control	\$126
Principal	\$103
Project Manager	\$110
Design Manager	\$84
Technical Lead	\$98
Project Engineer	\$53
Staff Engineer	\$44
Cost Estimator	\$106
Senior Designer	\$87
Administrative	\$54
Project Controller	\$40

501 ADDITIONAL SERVICES RATES **NOT USED**

501.1 The cost of the following potential future Additional Services have been negotiated as of the date of this Contract.

ADDITIONAL SERVICE	SUBMITTALS	SCHEDULE IMPACT	FIXED FEE
Reference the following Exhibit E-1: Additional Services Fee Breakdown.			\$0
			\$0
			\$0

501.2 These Additional Services Rates are valid for the duration of the Project and include salary costs, equipment, overhead, administration and profit.


501.3 For Additional Services of sub-consultants, the City shall compensate the Consultant a multiple of one (1.0) times the amounts billed to the Consultant for such services. The Consultant may bill for their expenses in managing the Additional Service of sub-consultants, the amount of which is already included in the above Additional Service Rates or, if not listed in the above Additional Service Rates, shall be approved by the City in writing prior to the Consultant or sub-consultant providing the services.

501.4 The Consultant agrees to provide services in connection with the Project, which are in addition to those required by Exhibit "A" for Basic Services, as Additional Services if so requested by the City in writing. Such requests may include, but are not limited to, and are not necessarily indicated by this statement as being Additional Services rather than Basic Services: (i) significant changes in the Project's size, quality, complexity, budget, or time schedule, (ii) changes required due to conflicting instructions previously given by the City, (iii) changes required by the enactment or amendment to codes, laws or regulations subsequent to the preparation of such documents, (iv) services concerning the replacement of that portion of the Project damaged by fire or other cause, and (v) services made necessary by the default or failure of the Contractor including major defects or deficiencies in the construction.

EXAMPLE

Insert Project Worksheet D-1 Here

Format the table to show only the Task, Description, and Task Amount columns

 EXHIBIT E-1: ADDITIONAL SERVICES FEE BREAKDOWN

TASK	DESCRIPTION	Task Amounts
	ADDITIONAL SERVICES	
	Addenda	\$ -
	Additional Design Services	\$ -
	Additional Topographic Survey	\$ -
	As-Builts	\$ -
	Total Additional Services - Hours	
	Total Additional Services - Fee	\$ -

502 REIMBURSABLE EXPENSES

502.1 The following Reimbursable Expenses are allowed:

REIMBURSABLE EXPENSE
Travel expenses for the following HDR categories: Specialist, Technical Advisor, Design Manager, and Technical Leads for Workshops and meetings as required.

502.2 For Reimbursable Expenses of the Consultant, the City shall compensate the Consultant a multiple of one (1.0) times the actual direct costs incurred by the Consultant. The multiplier includes all compensation for overhead and profit.

502.3 Reimbursable Expenses are limited to specific pre-authorized items or services purchased from third parties to this Contract, dedicated to only this Project. Additions to the above allowed Reimbursable Expenses may only be granted as a written amendment to this Contract.

502.4 If Reimbursable Expenses are established in this Contract as a fixed sum or a not-to-exceed amount, the Consultant has determined that this Reimbursable Expense amount will not be exceeded for the allowed Reimbursable Expenses for performance of the Services set forth in Exhibit "A" (Scope of Services), and accordingly does hereby assume the risk to complete the performance of this Contract without further compensation for Reimbursable Expenses should the costs exceed this fixed sum or not-to-exceed amount for Reimbursable Expenses.

502.5 Estimated Travel and per diem expenses are included not-to-exceed the Basic Services Fees, Additional Travel expenses incurred prior to written authorization shall not be considered for reimbursement.

502.6 Should travel and per diem expenses be so authorized by the City:

502.6.1 Expenses shall be based on actual costs submitted for reimbursement with valid original receipts. If a receipt is not normally provided for the expense, a certification signed by the traveler shall be submitted. Submitted receipts for travel and per diem reimbursement shall name each traveler covered.

502.6.2 Rates for lodging and individual meals shall not exceed the published U.S. General Services Administration rates at Clark County, Nevada, including the 75% limitation on the day of departure and return.

502.6.3 Passenger vehicle mileage shall be reimbursed at the rate stipulated by the Internal Revenue Service.

502.6.4 Examples of expenses that will not be reimbursed include alcoholic beverages, entertainment, laundry, dry cleaning and pressing, parking fines, gratuities and tips excepting for taxicab and meals a 15% tip if shown on the receipt, costs related to making reservations or other accommodations for travel, phone calls, computer or Internet access costs, car rentals larger than mid-size and car rental insurance, air travel other than the lowest coach fair available and travel insurance, premature departure and extended stays for personal reasons, and indirect route for personal preference.

END OF EXHIBIT "E"

EXHIBIT F KEY PERSONNEL LIST

600 CITY PERSONNEL

600.1 CITY REPRESENTATIVE: Jennifer Shinn

600.2 CITY REPRESENTATIVE'S SUPERVISOR: John Bettencourt

601 CONSULTANT'S PROJECT STAFF

601.1 The following personnel will be assigned by to work on the Project. Any changes or additions require City approval.

601.2 CONSULTANT REPRESENTATIVE (who may also be one of the following staff): David Ogden

601.3 CONSULTANT REPRESENTATIVE'S SUPERVISOR: Donald Pelissier

601.4 PROJECT MANAGER: David Ogden

601.4.1 RESPONSIBLE IN CHARGE PERSON:

List name of individual Engineer as licensed: David Ogden

601.4.2 IN CHARGE PERSON'S STATE OF NEVADA LICENSE NUMBER

List Engineer license number: 17379

602 CONSULTANT'S SUBCONSULTANTS

602.1 The following subconsultants will be contracted with and utilized by the Consultant to work on the Project. Any changes or additions require City approval.

602.2 AERIAL MAPPING:

602.3 ENVIRONMENTAL:

602.4 CIVIL ENGINEER:

602.5 STRUCTURAL ENGINEER:

602.6 MECHANICAL ENGINEER:

602.7 ELECTRICAL ENGINEER:

602.8 LANDSCAPE DESIGN:

602.9 INDEPENDENT COST ESTIMATOR (NOT the Consultant):

602.10 GEOTECHNICAL ENGINEER: Ninyo & Moore

602.11 LAND SURVEYOR: GCW

602.12 POTHOLING: KCI

END OF EXHIBIT "F"

EXHIBIT G
EXAMPLE INVOICEProject Name:
Contract No.:
Purchase Order No.:
CLV Project #:
Invoice Number
Period
Invoice Date:Consultant:
Project Number:
Consultant Rep:
Consultant Phone:
CLV Project Manager:
CLV Program Manager:

Task	Description	Amount of Task	Amount Billed this Period	Amount Previously Billed	Amount Billed to Date	Amount Remaining	Percent Billed this Period	Percent Billed to Date	Percent Funds Remaining
101	PRELIMINARY AND GENERAL ITEMS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
101.1	Project Management				\$0.00	\$0.00			
101.2	Kick-Off Meeting and Progress Meetings				\$0.00	\$0.00			
101.3	Utility and Agency Coordination				\$0.00	\$0.00			
101.4	Project Permits				\$0.00	\$0.00			
102	PRELIMINARY DESIGN PHASE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
102.1	Survey				\$0.00	\$0.00			
102.2	Right-of-Way				\$0.00	\$0.00			
102.3	Records Review, Information Research and Analysis of Data				\$0.00	\$0.00			
102.3.4	Existing Traffic Signal & Equipment Mapping				\$0.00	\$0.00			
102.4	Subsurface Utility Engineering (SUE) Services				\$0.00	\$0.00			
102.5	Geotechnical Investigation				\$0.00	\$0.00			
102.5.1	Conceptual Alternatives				\$0.00	\$0.00			
102.5.1.2	Bridge Conceptual Design and Front Sheet				\$0.00	\$0.00			
102.5.2	Hydraulic Analysis				\$0.00	\$0.00			
102.7	Walk Through				\$0.00	\$0.00			
102.8	Overall Project Scope, Schedule and Budget Review				\$0.00	\$0.00			
103	70% DESIGN PHASE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
103.1.1	Design Report and Detailed Hydraulic Analysis NOT USED				\$0.00	\$0.00			
103.1.2	70% Design Phase Plans				\$0.00	\$0.00			
103.1.2a	70% Structural Design				\$0.00	\$0.00			
103.1.3	70% Design Phase Construction Cost Estimate				\$0.00	\$0.00			
103.1.4	70% Special Provisions-NOT USED				\$0.00	\$0.00			
103.1.5	ADA/PROWAG Design Memorandum				\$0.00	\$0.00			
103.2	70% Walk Through				\$0.00	\$0.00			
103.3	Structures				\$0.00	\$0.00			
104	90% DESIGN PHASE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
104.1.1	Final Design Report				\$0.00	\$0.00			
104.1.2	90% Design Phase Plans				\$0.00	\$0.00			
104.1.2a	90% Structural Design				\$0.00	\$0.00			
104.1.3	90% Design Phase Construction Cost Estimate				\$0.00	\$0.00			
104.1.4	90% Design Phase Special Provisions				\$0.00	\$0.00			
104.2	Final ADA/PROWAG Design Memorandum				\$0.00	\$0.00			
104.3	90% Walk Through				\$0.00	\$0.00			
104.4	Bidability and Constructability (B&C)				\$0.00	\$0.00			
104.5	Finalize Permit Applications				\$0.00	\$0.00			
105	100% DESIGN PHASE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
105.1.2	100% Pre-Final (Bond) Submittal				\$0.00	\$0.00			
105.1.3	100% Final (Mylar) Submittal				\$0.00	\$0.00			
105.1.3a	Final Structural Design				\$0.00	\$0.00			
106	BID PHASE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
107	CONSTRUCTION PHASE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
108	POST CONSTRUCTION PHASE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
	Not-to-Exceed Total Basic Services Fee	\$0.00	\$0.00						

Additional Services Allowance:		\$0.00							
ASR#	Total Additional Services Authorized	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
1	0				\$0.00	\$0.00			
2	0				\$0.00	\$0.00			

	Total Billed to Date	Total Remaining	Percent Remaining
Basic Services:	\$0.00	\$0.00	
Authorized Additional Services:	\$0.00	\$0.00	
Unauthorized Additional Services Remaining:		\$0.00	

Total PO Amount:	\$0.00
Total Contracted Amount:	\$0.00
Total Billed to Date:	\$0.00
PO Balance:	\$0.00
Contract Balance:	\$0.00

Project Name:
Project Number:
Consultant
Invoice Number:
Invoice Date:

EXHIBIT H
CERTIFICATE – DISCLOSURE OF OWNERSHIP/PRINCIPALS

CERTIFICATE - DISCLOSURE OF OWNERSHIP/PRINCIPALS

“City” means the City of Las Vegas.

“City Council” means the governing body of the City of Las Vegas.

“Contracting Entity,” means the individual, partnership, or corporation seeking to enter into a contract with the City of Las Vegas.

“Principal” means, for each type of business organization, the following: (a) sole proprietorship – the owner of the business; (b) corporation – the directors and officers of the corporation; but not any branch managers of offices which are a part of the corporation; (c) partnership – the general partner and limited partners; (d) limited liability company – the managing member as well as all the other members; (e) trust – the trustee and beneficiaries.

1. Policy

In accordance with Resolutions 79-99, 105-99 and RA-4-99, adopted by the City Council, Contracting Entities seeking to enter into certain contracts with the City of Las Vegas must disclose information regarding ownership interests and principals. Such disclosure generally is required in conjunction with a Request for Proposals (RFP). In other cases, such disclosure must be made prior to the execution of a contract.

2. Instructions

The disclosure required by the Resolutions referenced above shall be made through the completion of this Certificate. The Contracting Entity shall complete Block 1, Block 2, and Block 3. The Contracting Entity shall complete either Block 4 or its alternate in Block 5. Specific information, which must be provided, is highlighted.

3. Incorporation

An updated and notarized Certificate shall be incorporated into the resulting contract, if any, between the City and the Contracting entity. Upon execution of such contract, the Contracting Entity is under a continuing obligation to notify the City in writing of any material changes to the information in this Certificate. This notification shall be made within fifteen

(15) days of the change. Failure to notify the City of any material change may result, at the option of the City, in a default termination (in whole or in part) of the contract, and/or a withholding of payments due the Contracting Entity.

Block 1: Contracting Entity	
Name: HDR Engineering, Inc.	
Address: 6750 Via Austi Parkway, Suite 350	City / ST / Zip: Las Vegas, NV 89119
Telephone: 702-938-6000	EIN or DUNS : 47-0680568
Block 2: Description / Subject Matter of Contract	
Services for: WPCF Headworks and Primary Treatment Rehabilitation Project	Project Number: TBD

<input type="checkbox"/> Bloc	<input type="checkbox"/> Type of	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Indivi	Partner	Limited Liability	Corpor	T	Ot

CERTIFICATE – DISCLOSURE OF OWNERSHIP/PRINCIPALS (CONTINUED)**Block 4: Disclosure of Ownership and Principals**

In the space below, the Contracting Entity must disclose all principals (including partners) of the Contracting Entity, as well as persons or entities holding more than one-percent (1%) ownership interest in the Contracting Entity.

	FULL NAME/TITLE	BUSINESS ADDRESS	BUSINESS PHONE
1	See attached		
2			
3			
4			
5			
6			
7			
8			
9			
10			

The Contracting Entity shall continue the above list on a sheet of paper entitled "Disclosure of Ownership/Principals – Continuation" until full and complete disclosure is made. If continuation sheets are attached, please indicate the number of sheets: _____

Block 5: Disclosure of Ownership and Principals – Alternate

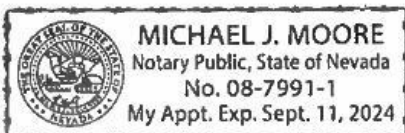
If the Contracting Entity, or its principals or partners, are required to provide disclosure (of persons or entities holding an ownership interest) under federal law (such as disclosure required by the Securities and Exchange Commission or the Employee Retirement Income Act), a copy of such disclosure may be attached to this Certificate in lieu of providing the information set forth in Block 4 above. A description of such disclosure documents must be included below.

Name of Attached Document: All Officers/Principals HDR Engineering, Inc.

Date of Attached Document: June 18, 2022 Number of Pages: 12

Contracting Party Certification (Notarized signature required in event of contract award per section 4, "Incorporation")

I certify under penalty of perjury, that all the information provided in this Certificate is current, complete and accurate. I further certify that I am an individual authorized to contractually bind the above named Contracting Entity.



Craig W. Smart
Signature
7/20/22
Date

State: Nevada County: Clark day of July 2022 by Craig W. Smart

[Signature]
Notary Signature

All Officers/Principals HDR Engineering, Inc.

Display Name	Officer Title	Location	Business Title
HDR Engineering, Inc.			
O'Reilly, Charles L.	President	Omaha	Chief Operating Officer
O'Reilly, Charles L.	Chief Operating Officer	Omaha	Chief Operating Officer
Ellmers, Glen E.	Executive Vice President	Raleigh	Water Business Group President
Graff, Neil A.	Executive Vice President	Austin	North America Director of Operations
LeCureux, David F.	Executive Vice President	Omaha	Chief Strategy Officer
McAneny, Douglas J.	Executive Vice President	Washington	Group President, Federal
McLaughlin, Thomas C.	Executive Vice President	White Plains	Transportation Business Group President
Meysenburg, Galen J.	Executive Vice President	Omaha	Chief Financial Officer
Shoemaker, Darryl J.	Executive Vice President	Vancouver	Group President, Resources
Wignall, Douglas S.	Executive Vice President	Omaha	President of Architecture
Alsina, Paul M.	Senior Vice President	Dallas	Central Region Program Management Services Lead
Arseneau, Bernard J.	Senior Vice President	Saint Louis Park	Highways Market Sector Director
Balchunas, Brian M.	Senior Vice President	Fulton	Principal Project Manager
Barnett, Elena R.	Senior Vice President	New York	NY/NJ Transportation Business Group Manager
Barnhart, William E.	Senior Vice President	Billings	Power Sector Director
Batenhorst, Ralph A.	Senior Vice President	Omaha	Senior Transportation Project Manager
Beduhn, Robert J.	Senior Vice President	Omaha	Dams, Levees & Civil Works Business Class Director
Bekka, Khalid	Senior Vice President	Omaha	Principal Strategic Advisor
Berman, Robert S.	Senior Vice President	Bellevue	Washington Area Operations Manager
Bland, Tommy T.	Senior Vice President	San Antonio	Domestic Operations Controller
Blank, Jeffrey C.	Senior Vice President	Portland	Tech, Media Telecom Sector Director
Boling, Robert M.	Senior Vice President	Folsom	Water Resources Market Sector Director
Brauer, Rod G.	Senior Vice President	Englewood	Central Region Water Business Group Director
Bruce, Dennis W.	Senior Vice President	Corner Brook	Principal Economist
Cadena, Carlos A.	Senior Vice President	Santa Ana	Senior Program Manager
Charalambous, Yiannoulla	Senior Vice President	New York	NY/NJ Area Manager
Chiglo, Jay L.	Senior Vice President	Dallas	Transportation BG Alternative Delivery Director
Clark, Angela M.	Senior Vice President	Madison	Federal Business Development Manager
Clark, David L.	Senior Vice President	Boise	Wastewater Market Sector Director
Coleman, James M.	Senior Vice President	Sioux Falls	Regional Water Client Development Lead
Cook, JaNell	Senior Vice President	Walnut Creek	West Region Water Business Group Director
Cowan, Timothy P.	Senior Vice President	Plymouth Meeting	Senior Federal Program Manager
Crall, Michael P.	Senior Vice President	Pittsburgh	Northeast Regional Director of Operations
Dalton, Mark R.	Senior Vice President	Anchorage	Program Manager
Dammarell, Amy S.	Senior Vice President	Portland	Cross Sector Professional Services Director
DeCesare, Douglas T.	Senior Vice President	Denver	Waste Sector Director
Delange, Kevin	Senior Vice President	Mahwah	Waste Client Development Leader
Donnelly, Thomas A.	Senior Vice President	Tallahassee	Senior Program Manager
Douglas, Jeffrey S.	Senior Vice President	Raleigh	Area Business Development Leader
Drahota, Steven M.	Senior Vice President	Portland	Senior Project Manager
Drimmel, Joseph E.	Senior Vice President	Kansas City	MO/KS Area Manager
Edelen, Benedict R.	Senior Vice President	Lexington	Area Manager
Eldridge, Katherine W.	Senior Vice President	Boise	Idaho Area Manager
English, Quint R.	Senior Vice President	Omaha	Engineering Company Controller
Estes, Michael A.	Senior Vice President	Glen Allen	Mid-Atlantic Transportation Business Group Manager
Fanselau, Jason R.	Senior Vice President	Folsom	Southwest Client Development Leader
Ferrell, Stephen J.	Senior Vice President	Orlando	Area Business Development Leader
Field, Kip D.	Senior Vice President	Riverside	Regional Director of Operations - Southwest
Frederiksen, Lee E.	Senior Vice President	Folsom	Senior Project Manager
Frissora, Joseph	Senior Vice President	Mahwah	Principal Program Manager
Frommer, Jennifer A.	Senior Vice President	Columbus	Strategic Pursuit Leader
Gadzinski, Norman	Senior Vice President	Cleveland	National Alternative Delivery Leader
Gilleran, Amy A.	Senior Vice President	San Francisco	Enterprise Risk Director
Gouveia, Anthony	Senior Vice President	Boston	New England Transportation Business Group Manager
Hales, Charlie A.	Senior Vice President	Vancouver	Urban Planning Cross Sector Director
Haley, Henry P.	Senior Vice President	Tucson	West Region Resources Business Group Director
Han, Jeffrey	Senior Vice President	New York	Principal Project Manager
Henderson, Jonathan R.	Senior Vice President	Raleigh	South Atlantic Area Manager
Hentz, Lawrence H.	Senior Vice President	Fulton	Project Principal
Hereim, Scott A.	Senior Vice President	Billings	Power Delivery Principal
Hickox, Patrick P.	Senior Vice President	Mobile	Transportation Director of Professional Services
Hill, Steven R.	Senior Vice President	Omaha	Nebraska Iowa Federal Section Manager
Hise, Wallace	Senior Vice President	Salt Lake City	Federal Marketing Lead
Hoppy, Brian K.	Senior Vice President	Wynnewood	Cross Sector Services Director
Horkan, Thomas E.	Senior Vice President	Seattle	Principal Project Manager
Hunt, Jennifer E.	Senior Vice President	Tampa	Florida, Alabama, Mississippi Area Manager
Hunter, Craig J.	Senior Vice President	Omaha	Nebraska Iowa Transportation Business Group Manager
Islam, Rashed T.	Senior Vice President	Austin	Central Region Transportation Business Group Dir
Jackson, Douglas P.	Senior Vice President	Saint Louis Park	Principal Project Manager
Jensen, Brent W.	Senior Vice President	Salt Lake City	Area Manager
Johnson, Andrew D.	Senior Vice President	Austin	OG&C Practice Lead and Mining Practice Lead
Johnson, Bradford L.	Senior Vice President	Salt Lake City	Professional Services Director
Johnson, Erik B.	Senior Vice President	Irvine	West Region Business Group Director
Johnson, Michael W.	Senior Vice President	Saint Louis Park	Water Professional Services Director
Joudrey, Cynthia L.	Senior Vice President	Boston	East Region Resources Business Group Director
Kaatz, Kelly J.	Senior Vice President	Austin	South Central Regional Operations Director
Kalisiak, Kip C.	Senior Vice President	Raleigh	East Region Water Business Group Director

All Officers/Principals HDR Engineering, Inc.

Display Name	Officer Title	Location	Business Title
HDR Engineering, Inc.			
Kennedy, Holly L.	Senior Vice President	Folsom	Northern California Area Operations Manager
Keyes, Steven A.	Senior Vice President	Austin	Resources Business Group Director
Khoury, Eli R.	Senior Vice President	New York	East Region Transportation Business Group Director
Kim, Thomas T.	Senior Vice President	Irvine	Transportation Business Group Area Manager
Kinard, David A.	Senior Vice President	Charleston	SE Transportation Business Group Manager
Knosby, Mary P.	Senior Vice President	Charlotte	South Atlantic Water Client Development Leader
Koo, Wei Koo W.	Senior Vice President	Santa Ana	Transportation Project Principal
Labonte, Julie L.	Senior Vice President	San Francisco	Global Water Director of Program Management
Laccinole, Matthew B.	Senior Vice President	Bellevue	Resources Program Development Director
LaTuso, Christopher	Senior Vice President	New York	Infrastructure Advisory Services Director
Lauderdale, Chance V.	Senior Vice President	Tampa	Drinking Water Market Sector Director
Lauzier, Andre E.	Senior Vice President	Sarasota	Transportation Planning and Design Director
Lewis, Harold E.	Senior Vice President	Jacksonville	Integration Director
Luttrell, Edwin C.	Senior Vice President	Charlotte	Hydropower Practice Principal
Lynch, James M.	Senior Vice President	Sacramento	Principal Consultant
Mariani, Joyce M.	Senior Vice President	White Plains	Water Business Group Manager
Martin, Brad B.	Senior Vice President	Denver	Area Manager
Massengill, Jeffrey B.	Senior Vice President	Corpus Christi	Maritime Global Director
McLaren, Mark	Senior Vice President	Phoenix	West Region Transit Market Sector Director
M'Coy, William S.	Senior Vice President	Virginia Beach	Principal Project Manager
McWaters, Kent L.	Senior Vice President	Tallahassee	Tallahassee Transportation Section Manager
Meilleur, Aaron M.	Senior Vice President	Phoenix	Arizona & New Mexico Area Manager
Miguez, Ramon F.	Senior Vice President	Dallas	Area Manager
Miller, Richard R.	Senior Vice President	Charlotte	Power Sector Principal Consultant
Minassian, Vatche R.	Senior Vice President	White Plains	Northeast Client Development Manager
Moses, Robert S.	Senior Vice President	Newark	Regional Business Group Director(AACE)
Mosteller, Kevin K.	Senior Vice President	Charlotte	Southeast Regional Director of Operations
Moyano, David Charles	Senior Vice President	Vancouver	Industrial Alternative Delivery Director
Muench, Brian P.	Senior Vice President	Saint Louis Park	Accounting Operations Director
Nagle, Jay C.	Senior Vice President	Orlando	FL-AL-MS Area Transportation Business Group Mgr
Neethling, Johannes B.	Senior Vice President	Folsom	WW Treatment Eff Mgmt Business Class Director
Neil, Jason E.	Senior Vice President	Folsom	WRM Client Development Director
Nero, Wendy L.	Senior Vice President	Fort Collins	Federal Water Market Sector Director
Nidam, Susan R.	Senior Vice President	Dallas	Regional Business Development Leader
Ohlsen, Ronald G.	Senior Vice President	Bellevue	West Region Highways and Local Roads Leader
Olsen, Kent A.	Senior Vice President	Sacramento	Senior Transportation Program Manager
Pannell, Richard R.	Senior Vice President	Vienna	Federal Sector Director
Peduzzi, Bill R.	Senior Vice President	Pittsburgh	Aviation Market Sector Director
Pembroke, James P.	Senior Vice President	Phoenix	Drinking Water Client Development Director
Pilgrim, Richard D.	Senior Vice President	Denver	Transportation Market Development Director
Piner, Angela G.	Senior Vice President	Saint Louis Park	Power Market Sector Business Development Director
Reiter, Jared C.	Senior Vice President	Charlotte	Professional Services Director - BES
Rella, Robert J.	Senior Vice President	Charlotte	Office Principal
Sanders, Thomas M.	Senior Vice President	Omaha	Corporate Programs & Policy Director
Scales, John C.	Senior Vice President	Arlington	Director of International Strategy
Scholl, Colleen M.	Senior Vice President	Madison	Resources Professional Services Director
Schwarz, Joseph H.	Senior Vice President	Colorado Springs	Managing Principal
Sharp, William H.	Senior Vice President	Omaha	Highway & Local Roadway Business Class Director
Sisco, Lee P.	Senior Vice President	Charlotte	East Region Federal Business Group Director
Skinner, Christine E.	Senior Vice President	Bellevue	Transportation BG Client Development Director
Skinner, David R.	Senior Vice President	Bellevue	Regional Director of Operations - Northwest
Soto-Daniels, Leticia	Senior Vice President	Springfield	Federal Sustainability & Asset Mgt Program Mgr
Sova, Ronald J.	Senior Vice President	Omaha	Nebraska Iowa Water Business Group Manager
Steinert, John P.	Senior Vice President	Ann Arbor	North Central Regional Operations Director
Stonehouse, Gregory J.	Senior Vice President	Saint Louis Park	Water Business Group Client Development Director
Suero, Guillermo J.	Senior Vice President	Fort Lauderdale	South Florida Business Development Leader
Swindell, Brian A.	Senior Vice President	Dallas	North Texas Transportation Business Group Manager
To, Linc H.	Senior Vice President	Walnut Creek	Water Client Development Leader
Tondl, Matthew B.	Senior Vice President	Omaha	Nebraska Iowa Area Manager
Tso, Sam W.	Senior Vice President	Las Vegas	West Region Transportation Business Group Director
Tuck, Lisa M.	Senior Vice President	Salt Lake City	Regional Business Development Leader
Tugman, Michael F.	Senior Vice President	Virginia Beach	Principal Project Manager
Van Ravenswaay, Brenda	Senior Vice President	Orlando	Wastewater Client Development Director
Waldron, Thomas R.	Senior Vice President	Newark	Transit Market Sector Director
Wenger, Jason S.	Senior Vice President	Denver	Transportation Business Group Operations Manager
White, Stephanie L.	Senior Vice President	Denver	Strategic Communications Cross Sector Director
Whitley, Stephen R.	Senior Vice President	Raleigh	President, CCC and Director of Field Services
Williams, Bradley C.	Senior Vice President	Mahwah	Remediation Business Class Leader
Williams, Stanley T.	Senior Vice President	Austin	Senior Wastewater Treatment Project Manager
Wittmann, Michaela W.	Senior Vice President	Omaha	Director/Sustainability
Wright, Kenneth J.	Senior Vice President	Pittsburgh	Northeast Bridge Engineering Principal
Yadlosky, John M.	Senior Vice President	Pittsburgh	Bridge and Structures Operations Director
Young, Patrick R.	Senior Vice President	Kansas City	MO/KS Area Water Operations Manager Asst
Young, Thomas W.	Senior Vice President	Houston	Industrial Sector Director
Earle, Marcia H.	Senior Vice President - PT	New York	Strategic Pursuits Manager
Ettlich, Bill F.	Senior Vice President - PT	Folsom	Senior Electrical Engineer
Hagood, William B.	Senior Vice President - PT	Dallas	Transportation Consultant

All Officers/Principals HDR Engineering, Inc.

Display Name	Officer Title	Location	Business Title
HDR Engineering, Inc.			
Low, Larry D.	Senior Vice President - PT	Tallahassee	Senior Project Manager
Placilla, Mel J.	Senior Vice President - PT	Glen Allen	Professional Services Director
Reardon, David J.	Senior Vice President - PT	Folsom	Senior Wastewater Project Manager
Williams, Robert B.	Senior Vice President - PT	Folsom	Senior Program Manager
Adams, Kelly L.	Vice President	Honolulu	Federal Business Group Manager
Adams-Weber, Jessica J.	Vice President	Kansas City	MO/KS Area Water Client Development Leader
Anderson, Robert L.	Vice President	Lexington	Senior Project Manager
Arce, Alfredo F.	Vice President	San Antonio	South Central Region Client Development Leader
Atoulikian, Richard G.	Vice President	Cleveland	Principal Project Manager
Aurit, Scott A.	Vice President	Omaha	Nebraska Iowa Wastewater Section Manager
Bacskin, Ronald S.	Vice President	Riverside	Transportation Program Manager
Bakke, Brian M.	Vice President	Des Moines	Water Marketing Manager
Barton, Michael J.	Vice President	Tucson	Office Principal, Tucson
Bathurst, Lucas A.	Vice President	Fort Worth	Office Principal
Bauman, Jim M.	Vice President	Ann Arbor	Michigan Resources Business Group Manager
Bennett, Timothy R.	Vice President	Omaha	Union Pacific Railroad Senior Client Manager
Berggren, Eric G.	Vice President	Omaha	Water Treatment Business Class Director
Bergschneider, Kevin H.	Vice President	Denver	Water Marketing Manager
Biglen, Douglas K.	Vice President	Dallas	North Texas Conveyance Program Lead
Billman, Daniel W.	Vice President	Anchorage	Senior Civil Engineer
Bintrim, James W.	Vice President	Pittsburgh	PA/WV Alternate Delivery Manager
Bird, Brian D.	Vice President	Ann Arbor	Michigan Power Generation Section Manager
Birkelbach, Ronald L.	Vice President	Pittsburgh	Advanced Train Control Systems Lead
Bisson, Doug J.	Vice President	Omaha	Community Planning & Urban Design Principal
Blanchard, Brian A.	Vice President	Tallahassee	FL/AL/MS Highways Market Sector Leader
Bloom-Crook, Donna R.	Vice President	Irvine	Water Client Development Manager
Borenstein, Mark D.	Vice President	Round Rock	Central Texas Area Manager
Bott, Paul R.	Vice President	Bellevue	Principal Bridge Engineer
Bogdanos, Gene L.	Vice President	Los Angeles	Transportation Program Manager
Brakenhoff, Peter J.	Vice President	Phoenix	Area Transportation BG Manager
Bratovich, Paul M.	Vice President	Folsom	Senior Technical Advisor
Brewer, Brianna L.	Vice President	Sacramento	Area Business Development Leader
Brigham, James W.	Vice President	Ann Arbor	Power Generation Business Class Leader
Bromley, Patrick G.	Vice President	Ann Arbor	Power Delivery Practice Leader
Brown, Christopher D.	Vice President	Portland	Industrial Manufacturing and Tech Practice Leader
Brown, Christopher H.	Vice President	Raleigh	South Atlantic Area Water Business Group Manager
Brown, Jerome W.	Vice President	Arlington	Quality Office Director
Buchanan, Brian D.	Vice President	San Antonio	Transit Business Class Lead
Bunner, Matthew A.	Vice President	Pittsburgh	Structures Section Manager
Buttenob, John M.	Vice President	Kansas City	MO/KS Highway and Roads Section Manager
Butterfield, Michael C.	Vice President	Cedar Rapids	Water/Wastewater Project Manager
Canjura, Nelson E.	Vice President	Tampa	FL/AL/MS Structures Quality Control Manager
Cantwell, Joel R.	Vice President	Dallas	North Texas Wastewater Program Lead
Caprara, Craig T.	Vice President	Missoula	Water Business Group Manager
Carnahan, James D.	Vice President	Pittsburgh	Area Manager PA/OH/WV
Chapman, Matt M.	Vice President	Honolulu	Water/Wastewater Program Manager
Chilingaryan, Vartan	Vice President	Los Angeles	Director of Structural Engineering
Chin, Allen E.	Vice President	Honolulu	Federal Principal Program Manager
Christensen, James J.	Vice President	Phoenix	Senior Transportation Project Manager
Christoffels, Mark A.	Vice President	Santa Ana	Principal Engineer Highway
Cobb, Samuel D.	Vice President	Pensacola	Civic Affairs Director
Colwell, Bud B.	Vice President	Corpus Christi	Senior Structural Engineer
Connors, Thomas M.	Vice President	Mahwah	Senior Project Manager
Conti, Arthur J.	Vice President	Irvine	Resources Business Group Area Manager
Cook, Matthew J.	Vice President	Denver	Water Resources Market Sector Lead
Correll, Mark A.	Vice President	Arlington	Strategy Director - Federal
Creamer, Karen M.	Vice President	Round Rock	Central Region Alternative Delivery Manager
Cross, Jeffrey M.	Vice President	Walnut Creek	Tech Sector Business Development Lead
Culbertson, George M.	Vice President	Olympia	Power Delivery Client Development Leader
Culligan, David W.	Vice President	Syracuse	Hydropower Practice Leader
Czarnecky, James T.	Vice President	Brentwood	Principal Program Manager
Dadamo, Peter C.	Vice President	Vienna	Water Treatment Business Class Director
Davis, Chad R.	Vice President	Pittsburgh	PA/OH/WV Water Operations Manager
Davis, Peter J.	Vice President	Newark	Movable Bridge Program Leader
Dehn, Bill W.	Vice President	Los Angeles	Principal Transportation Project Manager
Dickerson, Nathan P.	Vice President	Omaha	Senior Bridge Engineer/Project Manager
Dohrendorf, Jasper A.	Vice President	Missoula	Distribution Business Class Leader
Dolson, Gretchen L.	Vice President	Lincoln	Renewables Practice Leader
Domalik, Daniel E.	Vice President	Pittsburgh	Design Quality Control Manager
Dortch, Stephen W.	Vice President	Tampa	East Region Maritime Lead
Douglas, JD G.	Vice President	Irvine	Senior Transportation Planning Program Manager
Duben, Mark A.	Vice President	Des Moines	Senior Water/Wastewater Project Manager
Dunn, David D.	Vice President	Nashville	Senior Project Manager
Duschang, John H.	Vice President	Mahwah	Environmental Sciences and Planning Sector Dir
Duty, Katie E.	Vice President	Tampa	FL-AL-MS Water Business Group Manager
Dwyer, Blaine N.	Vice President	Denver	Water Supply Management Business Class Director
Eaton, Roger A.	Vice President	Pittsburgh	Structures Section Manager

All Officers/Principals HDR Engineering, Inc.

Display Name	Officer Title	Location	Business Title
HDR Engineering, Inc.			
Edwards, Allison M.	Vice President	Denver	Strategic Pursuits Manager
Eichlin, Norma L.	Vice President	Trenton	Program Manager
Ellwein, Tracy L.	Vice President	Portland	Oregon Area Manager
Engel, John J.	Vice President	Omaha	Senior Water Resources Engineer - Project Manager
Engelbert, Patrick J.	Vice President	Omaha	Nebraska Iowa Water Resources Section Manager
Enger, Leigh A.	Vice President	Salem	Real Estate and Right of Way Cross Sector Director
Enriquez, Jose L.	Vice President	Houston	Texas Aviation Market Sector Lead
Erickson, Bryan R.	Vice President	San Antonio	Central Region Federal Business Group Director
Erickson, Timothy D.	Vice President	Billings	Transportation Business Group Manager
Everson, Tony W.	Vice President	Denver	Colorado Resources Business Group Manager
Ferguson, Keith A.	Vice President	Denver	Dam Practice Leader
Ferguson, Matthew W.	Vice President	Omaha	Nebraska Iowa Power Client Development Leader
Ferland, Lance M.	Vice President	Dallas	North Texas Water Business Group Manager
Ferrier, Paul A.	Vice President	Bellevue	Washington Transportation Business Group Manager
Fish, Timothy J.	Vice President	Charlotte	East Region Aviation Market Sector Leader
Fleming, William F.	Vice President	Dallas	Design Section Manager
Forest, Mark E.	Vice President	Reno	Floodplain Practice Leader
Fowler, Melanie E.	Vice President	Tampa	Tampa Office Principal
Friedman, Steven A.	Vice President	Irvine	Water Market Sector Area Leader
Froscheiser, Keith A.	Vice President	Omaha	Nebraska and Iowa BES Business Group Manager
Fuhrmann, Mark W.	Vice President	Saint Louis Park	Senior Project Manager
Gaetz, Alan L.	Vice President	Billings	Senior Client Manager
Gallagher, Timothy J.	Vice President	Anchorage	Northwest Regional Regulatory Advisory Principal
Garcia, Fernando A.	Vice President	Irvine	Grid Modernization Practice Leader
Garrod, Justin S.	Vice President	Bellevue	WA Transit Market Sector Lead
Gesell, Greg H.	Vice President	Omaha	Senior Solid Waste Engineer - Project Manager
Gibson, James B.	Vice President	Syracuse	Hydropower Relicensing Business Class Leader
Glover, Jeffrey B.	Vice President	Denver	Colorado Area Water Business Group Chief Engineer
Gonzalez, Janet R.	Vice President	Madison	TBG Operation Resiliency Director
Gough, Matthew S.	Vice President	Fort Collins	Wastewater Business Class Lead
Gould, Thomas E.	Vice President	Bellevue	Water Economics and Finance Director
Graber, Daniel J.	Vice President	Sioux Falls	Senior Water/Wastewater Project Manager
Grady, David R.	Vice President	Charlotte	Southwest Region Managing Principal
Grauman, John A.	Vice President	Billings	Power Sector Alternative Delivery Director
Grenoble, Bruce A.	Vice President	Charlotte	Power Sector Manager
Grimstad, James E.	Vice President	Billings	Power Delivery Business Class Leader
Gros, Stephane	Vice President	Washington	Principal Economist
Gross, William	Vice President	Pittsburgh	Transportation Section Manager
Grubstein, Michael Y.	Vice President	San Diego	Transportation Program Manager
Gruver, Terry J.	Vice President	Phoenix	Area Strategic Communications Business Class Lead
Gruwell, Nancy A.	Vice President	Omaha	Director of Marketing Services
Gunderson, Adrian A.	Vice President	Walnut Creek	Senior Project Manager
Guthrie, Kyle R.	Vice President	Brentwood	Principal Project Manager
Habben, Craig E.	Vice President	Pierre	Senior Water Project Engineer
Hadler, Edith M.	Vice President	Bellevue	Market Sector Wastewater Delivery Program Manager
Hager, Mark S.	Vice President	Riverside	Senior Highway Project Manager
Haid, Thomas C.	Vice President	Fulton	WBG Construction Svcs Business Class Director
Hammer, Mark J.	Vice President	Philadelphia	Senior Engineering Project Manager
Hans, Jeffrey P.	Vice President	Pittsburgh	Area Business Development Leader
Hansen, John M.	Vice President	Orlando	Principal Project Manager
Hardgrove, Bob R.	Vice President	Boise	Area Water Business Group Manager
Harmon, Daniel J.	Vice President	Missoula	Senior Water Project Manager
Harris, Jared R.	Vice President	Billings	Area Manager
Harris, Nathan J.	Vice President	Phoenix	Regional Accounting Director
Hawley, William T.	Vice President	Anchorage	Senior Environmental Engineer
Hecht, James R.	Vice President	San Diego	Transit Engineering Business Class Director
Heffron, Tammy C.	Vice President	Denver	Central Region Bridge Leader
Hein, Thomas M.	Vice President	Rosemont	Area Operations Manager
Hernandez, Cynthia	Vice President	San Antonio	Area Business Development Leader
Herrington, Lew R.	Vice President	Tampa	GEC Program Manager
Hickey, Douglas D.	Vice President	St. Louis	STL Managing Principal
Hill, Bart B.	Vice President	Rosemont	Industrial Facilities Practice Lead
Hill, Jason L.	Vice President	Gig Harbor	Washington Fisheries Business Class Lead
Hino, Francis T.	Vice President	Honolulu	Principal
Hoff, Steven H.	Vice President	Sioux Falls	Area Business Development Leader
Hoffman, Robert W.	Vice President	Dallas	North Texas Client Development Leader
Holcomb, Donald R.	Vice President	Sarasota	Sarasota Office Manager
Housner, Lindsay A.	Vice President	Chicago	Resources Marketing Communications Director
Howie, Bruce J.	Vice President	White Plains	Resources Business Group Manager-NY/NJ
Hyland, Emily B.	Vice President	Saint Louis Park	Resources Strategic Communications Director
Hynes, Michael W.	Vice President	Santa Ana	Highway Section Lead
Hyre, John B.	Vice President	Tampa	East Region Transportation Commercial Manager
Imhoff, Cory M.	Vice President	Kansas City	MO/KS Area Transportation Operations Manager Asst
Ivester, Heather	Vice President	Boston	New England Area Manager
Izzo, Vincent J.	Vice President	Helena	Director Environmental Services & Transportation
Jackson, Suzanne	Vice President	Lawrenceville	Regional Accounting Director
Jeffcoat, Stuart B.	Vice President	Atlanta	Southeast Regional Client Development Leader

All Officers/Principals HDR Engineering, Inc.

Display Name	Officer Title	Location	Business Title
HDR Engineering, Inc.			
Johnson, Andrew S.	Vice President	Portland	Area Transportation Marketing Manager
Jong, Ken E.	Vice President	Walnut Creek	Principal Project Manager
Joy, Brandon M.	Vice President	Denver	Commercial Management Director
Kalis, Michael P.	Vice President	Kansas City	Project Principle Engineer
Keane, Kevin D.	Vice President	Mahwah	Program Manager
Keller, Kevin K.	Vice President	Topeka	Senior Railroad Program Manager
Kempf, Gregory A.	Vice President	Raleigh	East Region Alternative Delivery Manager
Kerr, Cadence C.	Vice President	Everett	Senior Real Estate Services Project Manager
Key, Dustin D.	Vice President	Dallas	Regional Accounting Director
Khalil, Hussein H.	Vice President	Omaha	Nebraska Iowa Construction Section Manager
Khosla, Karan	Vice President	Dallas	North Texas Traffic Lead
King, Stanley G.	Vice President	Brentwood	KY/TN/AR Transportation Business Group Manager
Kinsella, Clarice M.	Vice President	Bellevue	Director of Program Management - Resources
Kjenstad, Jason L.	Vice President	Sioux Falls	Area Manager
Klovsky, Robert	Vice President	Irvine	Transit Market Sector Area Leader
Koch, John E.	Vice President	Olympia	Senior Project Manager
Koch, Timothy E.	Vice President	Omaha	Electrical Engineering Principal
Koenig, Kurt M.	Vice President	Raleigh	Power Generation Practice Lead
Kolkman, Laycee L.	Vice President	Fort Collins	Traffic Business Class Director
Kravitz, Barry S.	Vice President	Rosemont	Senior Bridge Engineer
Kulpa, Sarah E.	Vice President	Charlotte	Area Resources Business Group Manager
Kurten, David E.	Vice President	Lawrenceville	East Region Business Group Director BES
Lamer, Stacey L.	Vice President	Boise	Idaho Resources Business Group Manager
Lantin, Anna Y.	Vice President	Irvine	Southern California Area Operations Manager
Larson, Lisa M.	Vice President	Seattle	RBG Infrastructure Advisory Services Director
Leahey, Bob E.	Vice President	Austin	Roadway Market Sector Leader
Leidy, Donald J.	Vice President	Denver	Managing Principal
Leonard, Kevin J.	Vice President	Colorado Springs	Navy Program Manager
Leshko, Brian J.	Vice President	Pittsburgh	Infrastructure Inspection & Management Pgm Leader
Lew, David B.	Vice President	Santa Ana	Senior Highway Project Manager
Liang, Han Bin	Vice President	Walnut Creek	Managing Principal
Liebsch, Edward J.	Vice President	Saint Louis Park	Senior Air Quality Specialist
Lim, Kuang Y.	Vice President	Walnut Creek	Bridge Section Manager
Long, Stephen N.	Vice President	Denver	Area Business Development Leader
Loo, Michael V.	Vice President	Bellevue	Construction Manager 2
Lopez-Paniagua, Carlos C.	Vice President	Tampa	FL/AL/MS Hydraulics Business Class Manager
Lowrey, Kenneth J.	Vice President	Denver	Water/Wastewater Business Group Operations Manager
Lykken, Jeffrey W.	Vice President	Bellevue	Senior Wastewater Project Manager
Maguire, Molly M.	Vice President	Omaha	Federal Proposal Director
Marrow, John F.	Vice President	Bellevue	Client Development Director
Marshall, Scott R.	Vice President	Spokane	Transportation Project Manager
Martello, Michael J.	Vice President	New York	NY Structures Section Lead
McCammon, Donald L.	Vice President	Missoula	Senior Project Manager
McClure, Theresa V.	Vice President	Charleston	Transportation Strategic Communications Director
McConnell, Edward C.	Vice President	Colorado Springs	Federal Planning Program Manager
McGlashan, Michael J.	Vice President	Denver	TBG Program Delivery Services Director
McGregor, George W.	Vice President	Jacksonville	Office Principal
McPherson, John L.	Vice President	Portland	Transportation Environmental Services Director
McPherson, Ronald L.	Vice President	Anchorage	Water Business Group Manager
Meehan, Paul A.	Vice President	Raleigh	South Atlantic Area Transportation BGM
Meroney, Michael P.	Vice President	Houston	Principal Project Manager
Meyer, Kelly R.	Vice President	Louisville	Office Principal
Milliken, Andrew C.	Vice President	Portland	Project Controls Business Class Leader
Mobley, Darrell B.	Vice President	Baltimore	Mid-Atlantic Trans. Business Development Lead
Modi, Vijay R.	Vice President	Virginia Beach	Mid-Atlantic Bridge Lead
Moore, David B.	Vice President	Corpus Christi	Port & Harbors Section Manager
Moore, Kerry A.	Vice President	Kansas City	Senior Bridge Project Manager
Moran, William H.	Vice President	Sioux Falls	Dakotas Wyoming Water Lead
Morgan, Teri J.	Vice President	Austin	Real Estate Services Section Manager
Morton, Ty W.	Vice President	Tucson	Arizona and New Mexico Water Client Development Le
Murphy, Michael M.	Vice President	Mahwah	Senior Project Manager
Murray, Jeffrey S.	Vice President	Raleigh	Senior Solid Waste Project Manager
Nesbitt, Kaia M.	Vice President	Denver	Business Class Director
Ngau, Guinevere	Vice President	New York	NY/NJ Alternative Delivery Operations Lead
Null, Roger D.	Vice President	Dallas	UMS National Practice Lead
Olson, Craig A.	Vice President	Folsom	Principal Project Manager
Olson, Luke	Vice President	Saint Louis Park	Central Region Transit Market Sector Director
Osier, Jon E.	Vice President	Billings	Montana Resources Business Group Manager
Overbay, Adam D.	Vice President	Charlotte	South Atlantic BES Business Group Manager
Paananen, Ronald J.	Vice President	Seattle	Senior Transportation Program/Project Manager
Palilla, Marco J.	Vice President	Folsom	Water Marketing Manager
Pallari, Kimberly L.	Vice President	Folsom	Public Involvement Director
Palmatier, Alexander M.	Vice President	Winston Salem	Southeast Region Utility Management Services Busin
Parvis, Patricia A.	Vice President	Mahwah	Senior Waste Project Manager
Paulino, Lara J.	Vice President	Los Angeles	Area Business Development Leader
Pearce, Samuel W.	Vice President	San Antonio	Central Texas BES Business Group Manager
Pecha, Dan L.	Vice President	Bellevue	Senior Project Manager

All Officers/Principals HDR Engineering, Inc.

Display Name	Officer Title	Location	Business Title
HDR Engineering, Inc.			
Perkins, Ronald R.	Vice President	Folsom	Construction Services Business Class Leader
Pietz, Kenny J.	Vice President	Columbia	Construction Oversight Manager
Planck, Samuel M.	Vice President	Folsom	Principal Hydraulic Structures Engineer
Pohlmann, Mark D.	Vice President	Council Bluffs	Senior Transportation Project Manager
Porto, Neil A.	Vice President	New York	Senior Transportation Program Manager-New York
Porzillo, Patrick	Vice President	Washington	Principal Project Manager
Pothast, Andrew J.	Vice President	St. Louis	STL Transportation Lead
Pothoff, Edward L.	Vice President	Albuquerque	Area Alternative Delivery Business Class Leader
Poussard, Terri A.	Vice President	Portland	Power Sector Client Development Leader - Northeast
Price, Kristina M.	Vice President	Jacksonville	Highway Section Manager
Prossick, James F.	Vice President	Bellevue	Real Estate Services Project Principal
Provance, James S.	Vice President	Paducah	Transportation Area CEI Service Leader
Quernemoen, Keith M.	Vice President	Saint Louis Park	Area Transportation Business Group Manager
Quinn, Michael P.	Vice President	White Plains	Senior Civil/Highway Engineer
Quinn, Thomas A.	Vice President	Tampa	Area Transportation Quality Control Manager
Raibley, Timothy J.	Vice President	Folsom	Senior Project Manager
Rand, Chris E.	Vice President	Kansas City	Railroad Facilities Program Manager
Ray, Brian G.	Vice President	Omaha	Area Business Development
Ray, David G.	Vice President	Englewood	Senior Federal Program Manager
Reece, Lisa M.	Vice President	Riverside	Client Development Leader
Reed, Scott M.	Vice President	Saint Louis Park	Senior Environmental Project Manager
Register II, Marlin A.	Vice President	Tampa	Area Highway Business Class Leader
Render, Rayanne	Vice President	Omaha	Assistant Regional Accounting Director
Rennoldson, David C.	Vice President	Seattle	Water Marketing Services Director
Richards, Neil R.	Vice President	Phoenix	CCC Professional Services Director
Richardson, Lisa M.	Vice President	Omaha	Nebraska Iowa Environmental Sciences Section Manag
Richardson, Robert D.	Vice President	Los Angeles	West Region Bridge Leader
Riley, Joe T.	Vice President	Philadelphia	Transportation Business Group Manager
Roberts, Mark G.	Vice President	Jacksonville	Senior Solid Waste Project Manager
Robinson, Bradford C.	Vice President	Concord	Director of Project Controls
Rodgers, Joshua M.	Vice President	Fulton	Mid-Atlantic Water Business Group Manager
Rolle, Barry O.	Vice President	Kansas City	Senior Project Manager
Rood, Beth P.	Vice President	Seattle	Water Resource Management Lead
Rossbach, Phil E.	Vice President	Omaha	Senior Bridge Project Manager
Roy, Santanu	Vice President	Orlando	Global Transportation Planning Director
Rustand, Scott A.	Vice President	Fort Worth	Real Estate Services Program Manager
Ryon, Andrea L.	Vice President	Vienna	Mid-Atlantic Area Operations Manager
Sachsenmaier, Zachary J.	Vice President	Omaha	Fire & Life Safety Director
Sanghai, Vikrant S.	Vice President	Walnut Creek	Transportation Business Group Manager
Saunders, David K.	Vice President	Winston Salem	Office Principal
Schmedes, Richard W.	Vice President	Charlotte	Rail and Transit Systems Business Class Director
Schneider, Nicholas L.	Vice President	Billings	Senior Client Manager
Schnell, Steven J.	Vice President	Jacksonville	Transportation Planning Business Class Manager
Scholz, Jenna G.	Vice President	Everett	Northwest Regional Client Development Leader
Schroeder, Jim K.	Vice President	Corpus Christi	Senior Program Manager
Schroeder, Suzana B.	Vice President	New York	NY/NJ Transit and Rail Department Lead
Schulze, Dennis W.	Vice President	Fort Worth	Freight Rail Business Class Director
Seits, Mark H.	Vice President	San Diego	Senior Water Resources Technical Advisor
Shafer, Mark W.	Vice President	Kansas City	BNSF Railroad Senior Client Manager
Shelton, Thomas G.	Vice President	Dallas	South Central Region Transit Lead
Sherk, John E.	Vice President	Nashville	Senior Project Manager
Sherwood, Michelle E.	Vice President	Saint Louis Park	North Central Regional Business Group Manager
Shingleton, Bethany R.	Vice President	Salt Lake City	Office Principal
Shockley, Adam C.	Vice President	Austin	Office Principal
Siebenaler, April S.	Vice President	Portland	Oregon Transportation Business Group Manager
Sigler, William B.	Vice President	Omaha	Senior Environmental Scientist
Sklavounakis, Christothea	Vice President	New York	Northeast Alternate Delivery Lead
Slayton, Erin N.	Vice President	Columbia	TBG Program Management Services Director
Smith, Robert W.	Vice President	Pooler	Office Principal
Snyder, Kevin P.	Vice President	Denver	Dams Practice Lead
Solis, Alejandro J.	Vice President	Washington	Economics Business Class Lead
Soronson, Marc K.	Vice President	Phoenix	Senior Project Principal
Soubra, Khaled S.	Vice President	Ann Arbor	Michigan Area Manager
Spain, Stephen D.	Vice President	Portland	Federal Hydropower Leader
Spargo, Ben W.	Vice President	Phoenix	Principal Project Manager
Srb-Vampola, Kandi K.	Vice President	Omaha	Nebraska Iowa Federal Client Development Leader
Stanley, David J.	Vice President	Phoenix	Mining Practice Leader
Staud, Amy M.	Vice President	Charleston	Traffic and Planning Section Manager
Stober, John T.	Vice President	Columbia	Utility Management Svcs Business Class Director
Stoddard, Angie M.	Vice President	Houston	Area Business Development Leader
Stone, Matt T.	Vice President	Anchorage	Alaska Area Operations Manager
Stratton, Richard G.	Vice President	Folsom	Senior Project Manager
Suarez, Erki	Vice President	Doral	South FL Transportation Business Group Manager
Tam, Helena L.	Vice President	New York	NY/NJ Transit, Aviation and Rail Alt. Del. Lead
Thomas, James A.	Vice President	Austin	Environmental Sciences Section Manager
Thomas, John C.	Vice President	Houston	West Region Alternative Delivery Manager
Thompson, Marcella I.	Vice President	Omaha	Nebraska Iowa Resources Business Group Manager

All Officers/Principals HDR Engineering, Inc.

Display Name	Officer Title	Location	Business Title
HDR Engineering, Inc.			
Thornton, Richard B.	Vice President	Fort Collins	Water Resources Project Manager
Thuman, Andrew J.	Vice President	Mahwah	Water Quality Client Development Leader
Tippey, Brent A.	Vice President	Lexington	Drinking Water Project Principal Lead
Todd, Thomas B.	Vice President	San Diego	Northern California Federal Business Group Manager
Tomlinson, Kevin J.	Vice President	New York	NY/NJ Business Development Lead
Trotter, Brian H.	Vice President	Brentwood	Office Principal
Ubbelohde, Kurt	Vice President	Omaha	Federal Professional Services Director
Vaugh, Samuel K.	Vice President	Austin	Senior Water Supply Management Project Manager
Venable, Eric E.	Vice President	Virginia Beach	Transportation Federal Market Sector Director
Verver, Elaine E.	Vice President	Austin	Transportation Real Estate & Right of Way Director
Wajda, James E.	Vice President	Omaha	ERP Project Management Office Lead
Walsh, Claudia A.	Vice President	Virginia Beach	Mid-Atlantic Highways Market Sector Lead
Walsh, Margaret E.	Vice President	Chicago	Vice President Strategic Pursuits
Weddell, Daniel S.	Vice President	Santa Ana	Senior Highway Project Manager
Werman, Roni	Vice President	New York	Senior Construction Manager
Wessels, Eric A.	Vice President	Austin	Utility Management Services Area Lead
West, Jonathan P.	Vice President	Louisville	KY Transportation Business Group Director
Weston, David C.	Vice President	Houston	Area Manager
Wiegert, Christine A.	Vice President	Saint Louis Park	Area Manager
Wiitanen, Mark A.	Vice President	Ann Arbor	Senior Project Manager
Williams, Ann E.	Vice President	Omaha	Nebraska Iowa Water Business Group Manager
Williamson, Sheri S.	Vice President	Rock Hill	SC Transportation Business Group Manager
Williges, Christopher R.	Vice President	San Francisco	Economics and Finance Business Class Leader
Wimberly, John E.	Vice President	Pensacola	Pensacola Office Principal
Witt, Paul T.	Vice President	Anchorage	Senior Project Manager
Wittberger, Alicia K.	Vice President	Kansas City	Strategic Pursuits Manager
Womack, Shane R.	Vice President	Chattanooga	Resources Business Group Manager
Wong, David W.	Vice President	Rosemont	IL/IN Transportation Business Development Lead
Wooten, John D.	Vice President	Dallas	North Texas Resources Business Group Manager
Word, Justin A.	Vice President	Round Rock	Area Transportation Business Group Manager
Yosten, Andrew J.	Vice President	Omaha	Central Region Business Group Director-BES
Ziegler, Tyrus K.	Vice President	Charlotte	Environmental Engineering Mgr
Zipf, Peter J.	Vice President	New York	Client Manager
Zuber, David D.	Vice President	Sacramento	Northern California Water Business Group Manager
Zuehls, Matthew G.	Vice President	Saint Louis Park	Area Resources Business Group Manager
Carothers, Garson C.	Vice President - PT	Portland	Senior Project Manager
Collinsworth, Suanne O.	Vice President - PT	Vienna	Marketing Manager
Englert, Thomas L.	Vice President - PT	Mahwah	Senior Technical Advisor
Grennan, Dennis E.	Vice President - PT	Omaha	North Central Power Client Development Leader
Sikora, Mark J.	Vice President - PT	Charleston	Senior Technical Advisor
Waldow, George M.	Vice President - PT	Saint Paul	Senior Water Resources Project Manager
Walker, Danny H.	Vice President - PT	Nashville	Regional Manager
Acay, Nicolas M.	Associate Vice President	Austin	Senior Project Manager
Adams, Bryan	Associate Vice President	Salt Lake City	Senior Program/Project Manager
Albrecht, Erica L.	Associate Vice President	Louisville	Client Management Leader
Alsop, James R.	Associate Vice President	Charlotte	Managing Principal
Anderson, Nicholas B.	Associate Vice President	Ann Arbor	Substation Section Manager
Anschell, Scott E.	Associate Vice President	Olympia	Asset Management Lead
Arms, Jeffrey B.	Associate Vice President	Orlando	Office Principal
Babcock, Chad E.	Associate Vice President	Kansas City	Regional Quality Director
Baldwin, W.D. D.	Associate Vice President	Seattle	NW Traffic Business Class Lead
Bamert, Urs B.	Associate Vice President	New York	Transit Architecture Section Manager
Barber, Andy A.	Associate Vice President	Louisville	Transportation Area Business Development Leader
Barstow, Brian R.	Associate Vice President	Virginia Beach	Federal Project Manager
Bartle, Brian D.	Associate Vice President	Bellevue	Washington Water Business Group Manager
Basrao, Pratibha	Associate Vice President	Folsom	Applied Technology Director
Bauman, Ryan P.	Associate Vice President	Saint Louis Park	Transit Section Manager
Beebe, Mark H.	Associate Vice President	Denver	Drinking Water Market Sector Lead
Bell, Lisa C.	Associate Vice President	Doral	Proposal Manager
Black, Daniel J.	Associate Vice President	Omaha	Nebraska Iowa Power Section Manager
Blascovich, Sara J.	Associate Vice President	Mechanicsburg	Resources Business Group Manager
Boley, Ryan P.	Associate Vice President	San Diego	Rail Transit Section Manager
Bott, James W.	Associate Vice President	Anchorage	Alaska Resources Business Development Leader
Bresette, Aaron J.	Associate Vice President	Kansas City	Municipal Section Manager
Brunner, Robert V.	Associate Vice President	White Plains	Bridges & Structures Department Lead
Buker, James E.	Associate Vice President	Boise	Project Manager - Power Delivery Lead
Burchfield, Jonathon D.	Associate Vice President	Pensacola	Highway Section Manager
Burdette, Nicholas J.	Associate Vice President	Pittsburgh	Northeast Region Bridge Lead
Burfeind, Scott C.	Associate Vice President	Saint Louis Park	Roadway Section Manager
Burles, Holly G.	Associate Vice President	Walnut Creek	Building Engineering Services BGM
Cadmus, Andrew E.	Associate Vice President	Vienna	Tolling Operations Program Manager
Caldwell, Jarvis A.	Associate Vice President	Sacramento	Resources Business Group Manager
Carlson, Jonathan D.	Associate Vice President	Billings	Section Manager
Celik, Jennie S.	Associate Vice President	Cleveland	PA/OH/WV Water Client Development Lead
Chandler, Jonathan R.	Associate Vice President	Englewood	Senior Environmental Project Manager
Ching, Troy K.	Associate Vice President	Wailuku	Water Business Group Manager
Cochran, Matthew D.	Associate Vice President	Springfield	Fisheries Business Class Director

All Officers/Principals HDR Engineering, Inc.

Display Name	Officer Title	Location	Business Title
HDR Engineering, Inc.			
Coleman, Brandon J.	Associate Vice President	Kansas City	Wastewater Treatment Section Manager
Collins, Amanda J.	Associate Vice President	Omaha	Operations Finance Manager
Collins, Brad B.	Associate Vice President	Pensacola	Project Manager
Connor, Nancy F.	Associate Vice President	Vienna	Deputy Transportation Business Group Manager
Costa, Raphael C.	Associate Vice President	Tampa	Moveable Bridge Program Leader
Crozier, Allen R.	Associate Vice President	San Marcos	Senior Transportation Project Manager
Cusick, Daniel V.	Associate Vice President	New York	Health Principal
Dalager, Nathan P.	Associate Vice President	Thief River Falls	Senior Water Resources Engineer
Darby, Michael M.	Associate Vice President	Charleston	Senior Project Manager
Davidson, Ted E.	Associate Vice President	Orlando	Area Structures Lead
DeMarco, Matthew J.	Associate Vice President	Harrisburg	Project Controls Manager
Dey, Mainak M.	Associate Vice President	Santa Ana	Highway Project Manager
Dierking, Paul B.	Associate Vice President	Saint Louis Park	Area Water Business Group Manager
DiVirgilio, Eric C.	Associate Vice President	Boston	New England Rail/Transit Department Manager
Donley, Meghann C.	Associate Vice President	Boise	Federal Project Manager
Dunham, Alison L.	Associate Vice President	Denver	Marketing Services Manager
Dupilka, Erik H.	Associate Vice President	Virginia Beach	Mid-Atlantic Federal Business Group Manager
Dwyer, James C.	Associate Vice President	Austin	Senior Groundwater Project Manager
Eichenberger, James	Associate Vice President	Denver	Utility Planning Project Manager
Eisele, Ryan L.	Associate Vice President	Kansas City	Program Manager
Estrada, Gregorio	Associate Vice President	Irvine	Wastewater Business Class Area Leader
Fallon, Theresa C.	Associate Vice President	Newark	NJ Highway and Roads Department Lead
Faria, Paulo G.	Associate Vice President	New York	Civic Principal
Fauteux, Ricky D.	Associate Vice President	Charleston	Atlantic Region Bridge Lead
Femmer, Carlos	Associate Vice President	Lafayette	Data Acquisition Cross Sector Director
Fisher, Gregory M.	Associate Vice President	White Plains	NY/NJ Transportation Proj Management Practice Lead
Foreman, Cory S.	Associate Vice President	Rapid City	Water Resources Section Manager
Fort, Jason R.	Associate Vice President	Phoenix	AZ/NM Water Business Group Manager
Fuller, Jason A.	Associate Vice President	Pittsburgh	Senior Project Manager
Garraffa, Ron C.	Associate Vice President	Baltimore	Principal Construction Program Manager
Geesey, Brett L.	Associate Vice President	Lafayette	Office Principal
Gershmel, Grant L.	Associate Vice President	Billings	Section Manager
Giesmann, Mark T.	Associate Vice President	Omaha	NE/IA Freight Rail Structures Section Manager
Gilley, Calvin D.	Associate Vice President	Richmond	Senior Project Manager
Gipson, Dean J.	Associate Vice President	San Diego	Utility Management Services Business Class Area Le
Gnibus, Timothy D.	Associate Vice President	Irvine	Private Development Market Sector Area Leader
Goepel, Christian J.	Associate Vice President	Walnut Creek	Freight Rail Market Sector Leader
Gonzalez, Jose M.	Associate Vice President	San Antonio	San Antonio Roadway Lead
Gorugantula, Srikanth	Associate Vice President	Fulton	Mid-Atlantic Water Client Development Leader
Gould, Daniel P.	Associate Vice President	White Plains	Senior Program Manager
Grams, Laura J.	Associate Vice President	Houston	Transit Planning Practice Leader
Grey, Mark M.	Associate Vice President	Memphis	Office Principal
Griego, Hannah R.	Associate Vice President	Anchorage	Environmental Science and Planning BCL
Hahn, Philip R.	Associate Vice President	Denver	Roadway Business Class Lead
Hall, Chad D.	Associate Vice President	Kansas City	Senior Project Manager
Hall, Mark E.	Associate Vice President	Tampa	Regional Accounting Director
Halsted, Patrick A.	Associate Vice President	Omaha	Freight Rail Construction Services Lead/Senior PM
Hamilton, Dustin L.	Associate Vice President	Rapid City	Transportation Business Group Manager
Hansen, Michael A.	Associate Vice President	Brentwood	KY/TN/AR Area Water Business Group Manager
Hanson, Rhonda S.	Associate Vice President	Charlotte	Southeast Region Power Delivery Practice Leader
Haraguchi, Gail Y.	Associate Vice President	Honolulu	Area Client Development Leader
Harris, Christine M.	Associate Vice President	Virginia Beach	Power Gen Regulatory Compliance Practice Leader
Harrison, Peter J.	Associate Vice President	Round Rock	Bridge Inspection Section Lead
Harrison, Todd L.	Associate Vice President	Seattle	Managing Principal/Program Manager
Heavin, SCOTT S.	Associate Vice President	Kansas City	Transportation Business Development Leader
Hemingson, Todd K.	Associate Vice President	Austin	Senior Transit Consultant
Heyman, John G.	Associate Vice President	Charlotte	Industrial Business Development Director
Hiebert, Kimberly A.	Associate Vice President	Fort Worth	Real Estate Services Program Manager
Higgins, Michael S.	Associate Vice President	Sacramento	Senior Project Manager
Honsberger, Heather L.	Associate Vice President	Phoenix	Area Business Development Leader
Howard, Keith A.	Associate Vice President	Doral	Southeast Region Waste Services Program Leader
Hoyle, Laurissa E.	Associate Vice President	Glen Allen	Glen Allen Water Section Manager
Hughes, Chris M.	Associate Vice President	Anchorage	Alaska Transportation Business Group Manager
Jackson, James E.	Associate Vice President	Boston	Area Business Development Leader
Jacobs, Michael C.	Associate Vice President	Pittsburgh	Northeast Oil and Gas Market Sector Leader
Jeanson, Tim H.	Associate Vice President	Rosemont	Senior Manager Government Accounting & Compliance
Jenik, Warren F.	Associate Vice President	Tampa	Assistant Regional Accounting Director
Jensen, James R.	Associate Vice President	White Plains	Area Drinking Water Client Development Lead
Jensen, Todd R.	Associate Vice President	Spokane	WA Water Construction Management Lead
Kaffar, Lee W.	Associate Vice President	Sioux Falls	Real Estate Services Section Manager
Kannan, Shyam	Associate Vice President	Washington	Mid-Atlantic Transit Lead
Keller, Michael J.	Associate Vice President	Missoula	Rail Section Manager
Kerns, Jason R.	Associate Vice President	Newport News	Mid-Atlantic Wastewater Market Sector Leader
Khalique, Imran A.	Associate Vice President	Rosemont	Industrial Project Manager
Khou, Try V.	Associate Vice President	Long Beach	Senior Maritime Project Manager
Kinder, Richard C.	Associate Vice President	Boise	Idaho Construction Services Lead
King, Jonathan M.	Associate Vice President	Austin	Assistant Regional Accounting Director

All Officers/Principals HDR Engineering, Inc.

Display Name	Officer Title	Location	Business Title
HDR Engineering, Inc.			
Klaumann, Anthony D.	Associate Vice President	Omaha	NE/IA Freight Rail Track Section Manager
Kochersperger, Gregory M.	Associate Vice President	Dallas	Central Region Principal Bridge Engineer
Kohl, Anna J.	Associate Vice President	Anchorage	Environmental Project Manager
Konda, Teresa C.	Associate Vice President	Omaha	Nebraska Iowa Water Section Manager
Koorn, Shawn W.	Associate Vice President	Bellevue	Utility Rates Business Class Lead
Kotchian, Girair A.	Associate Vice President	Irvine	Senior Highway Project Manager
Krieger, Ruth L.	Associate Vice President	New York	Transport Architecture Business Class Director
Krivanec, Christopher E.	Associate Vice President	Folsom	Federal Water Market Sector Lead
Kyei-Mensah, Kennedy	Associate Vice President	Vienna	Freight Railroad Section Manager
LaFata, Catherine P.	Associate Vice President	Walnut Creek	Transportation Equity Director
Lake, Channe M.	Associate Vice President	Honolulu	Accounting Business Manager
Lanser, Jillian L.	Associate Vice President	Austin	Deputy Quality Office Director
Lewis, Michael P.	Associate Vice President	New York	Principal Program Manager
Lloyd, Kevin J.	Associate Vice President	Mahwah	Senior Project Manager
Longsdorf, Jason M.	Associate Vice President	Denver	Transportation Planning Business Class Lead
Low, Garrett S.	Associate Vice President	Oakland	Supervising Engineer
Lutz, Lisa M.	Associate Vice President	Sacramento	Mechanical Engineering Section Manager
Macek, Nathan M.	Associate Vice President	Washington	Infrastructure Finance Director
MacNeil, Mike S.	Associate Vice President	White Plains	Senior Project Manager
Macneil, Steven D.	Associate Vice President	Concord	Resources Business Group Controller
Mah, Moshik S.	Associate Vice President	Los Angeles	Design Principal
Malik, Raheel	Associate Vice President	New York	NY/NJ Major Bridges Practice Lead
Manso, Javier	Associate Vice President	Doral	Roadway Engineering Section Manager
Martin, Montserrat	Associate Vice President	Santa Ana	Bridge Section Leader
Martin, Nate H.	Associate Vice President	Fargo	Client Development Leader - Department of Energy
Matthews, Jessica L.	Associate Vice President	Bellevue	WA Area Transpo Bus Grp Bus Development Leader
Mayer, Mona R.	Associate Vice President	Austin	South Central Utility Business Class Lead
McCabe, Tom O.	Associate Vice President	Honolulu	Hawaii & Pacific Area Operations Manager
McConville, Matthew T.	Associate Vice President	Omaha	Senior Water Resources Engineer - Project Manager
McKinsey, Benjamin C.	Associate Vice President	Billings	Team Leader/Project Manager
McVicker, LuAnn C.	Associate Vice President	San Francisco	Water/Wastewater Construction Management Lead
Mesbah, Elizabeth K.	Associate Vice President	Folsom	Water Resource Management Market Sector Leader
Michnovetz, Eric J.	Associate Vice President	Boston	Master Specification System Lead
Miller, Mike D.	Associate Vice President	San Antonio	Area Federal Business Group Manager
Miller, Scott R.	Associate Vice President	Phoenix	Area Transit Planning Business Class Leader
Mims, Aimie L.	Associate Vice President	Saint Paul	Resources Right of Way Director
Mitchell, Jeffrey J.	Associate Vice President	Houston	Senior Project Manager
Mizera, Craig M.	Associate Vice President	Bismarck	Transportation Section Manager
Moody, Will W.	Associate Vice President	Raleigh	South Atlantic Area Highways Section Lead
Moore, Travis T.	Associate Vice President	Denver	Colorado BES Business Group Manager
Morris, Victoria	Associate Vice President	Seattle	Senior Bridge Project Manager
Morrison, Doug W.	Associate Vice President	Kansas City	Geospatial and Information Management Cross Sector
Morrison, Matthew J.	Associate Vice President	Bismarck	Distribution Section Manager
Moughamer, Kirk W.	Associate Vice President	Seattle	WA Power Market Sector Leader
Mowat, Robert E.	Associate Vice President	Austin	Transportation Electrified Mobility Practice Lead
Mudd Lemonds, Paula J.	Associate Vice President	Austin	Water Supply Management Project Manager
Mull, Andrew D.	Associate Vice President	Irvine	Rail Transit Section Manager
Munoz, Kristin M.	Associate Vice President	Mahwah	Area Drinking Water Sector Leader
Mustar, Jennifer G.	Associate Vice President	Greenville	Senior Project Manager
Naughton, Michael J.	Associate Vice President	Newark	Transit Principal Project Manager
Neshyba, Keith A.	Associate Vice President	Houston	Transportation Business Group Director
Nguyen, Chau-Ha T.	Associate Vice President	Denver	Senior Transportation Project Manager
Nguyen, Hank T.	Associate Vice President	Santa Ana	Senior Highway Project Manager
Nye, Joe J.	Associate Vice President	Los Angeles	Water Business Group Area Manager
O'Brien, Kathryn L.	Associate Vice President	Seattle	Senior Transit Project Manager
Ochoa, Analette A.	Associate Vice President	Walnut Creek	Supervising Engineer
Omae, Amy L.	Associate Vice President	Irvine	Wastewater Market Sector Leader
O'Neill, Patrick W.	Associate Vice President	San Diego	Environmental Services Business Class Area Leader
Osvalds, Andy J.	Associate Vice President	Irvine	Freight Rail Market Sector Area Leader
Owens, Todd D.	Associate Vice President	Kansas City	Commercial Manager/Contract Manager
Ozuna, Kenneth L.	Associate Vice President	Houston	Bridge Program Manager
Pantelides, John	Associate Vice President	New York	NY/NJ Project Controls Section Manager
Pappas, Karen R.	Associate Vice President	Santa Clara	Drinking Water Market Sector Leader
Pargas, Ricardo A.	Associate Vice President	Tucson	Roadway Section Manager
Parker, Cristopher L.	Associate Vice President	Austin	Dams, Levees, Civil Works Market Sector Lead
Patel, Sameer N.	Associate Vice President	Ann Arbor	Substation Business Class Leader
Patel, Sheena C.	Associate Vice President	Walnut Creek	DOT Market Sector Lead
Peik, Steven C.	Associate Vice President	Houston	Texas Gulf Coast Transportation Construction Servi
Perlberg, Brian R.	Associate Vice President	San Antonio	Mechanical Section Leader
Perry, Thomas R.	Associate Vice President	Washington	Senior Program Manager/Office Principal
Plummer, Mike D.	Associate Vice President	Charlotte	South Atlantic Area Solid Waste Section Manager
Pollack, Leslie D.	Associate Vice President	Austin	Traffic Business Class Lead/Office Principal
Popenhagen, Brandi M.	Associate Vice President	Madison	Senior Transportation Planner
Powell, James E.	Associate Vice President	Charlotte	Industrial Program Manager
Proctor, Frank D.	Associate Vice President	Vancouver	Ports & Maritime Business Class Leader
Pucci, Michael W.	Associate Vice President	White Plains	Federal Program Manager
Putnam, Mary S.	Associate Vice President	Omaha	Transportation Communications Director

All

Display Name	Officer Title	Location	Business Title
HDR Engineering, Inc.			
Quiggle, Robert J.	Associate Vice President	Syracuse	Deputy Resources Business Group Manager
Quiroz, Christina M.	Associate Vice President	Mahwah	Civil Engineering Section Leader (ASMEC)
Reinicker, Brian R.	Associate Vice President	Charlotte	Geotechnical Eng Team Leader
Renner, Paula S.	Associate Vice President	Omaha	Strategic Pursuits Section Manager
Rhoda, Jeff C.	Associate Vice President	Saint Louis Park	Area Transportation Business Development Leader
Rice, James R.	Associate Vice President	Raleigh	South Atlantic Area Hydraulics Section Lead
Roach, Tom F.	Associate Vice President	Boston	Deputy Transportation Business Group Manager
Rodgers McGraw, Kendra R.	Associate Vice President	Colorado Springs	Federal Geospatial Director
Rodriguez, Albert	Associate Vice President	Austin	Pump Stations and Pipelines Business Class Dir
Rodriguez, Christopher B.	Associate Vice President	Albuquerque	Office Principal, Albuquerque
Rodriguez, Jose L.	Associate Vice President	Dallas	North Texas Construction Services Section Manager
Rohan, David P.	Associate Vice President	Omaha	Project Management Office Director
Rosca, Gheorghe	Associate Vice President	Irvine	Transportation Professional Services Area Leader
Rouse, Eric C.	Associate Vice President	Englewood	Senior Finance Project Manager
Saffels, Ryan D.	Associate Vice President	Kansas City	Water Treatment Section Manager
Salazar, Joshua A.	Associate Vice President	Ann Arbor	Transportation Business Group Manager
Scangas, Angie S.	Associate Vice President	Portland	Resources Engineering Services Manager New England
Semenick, Richard C.	Associate Vice President	New York	Rail Section Manager
Serpico, Stephanie L.	Associate Vice President	Bend	Senior Project Manager
Sewell, Christopher J.	Associate Vice President	Walnut Creek	Supervising Engineer
Shaner, Joanne M.	Associate Vice President	Cleveland	Bridge Section Manager
Sheppard, Alan A.	Associate Vice President	Pooler	LNG Service Line Lead
Shrivastava, Amit	Associate Vice President	Omaha	Wastewater Treatment Section Manager
Sievert, Charlie E.	Associate Vice President	Kansas City	MO/KS Water Resources Section Manager
Smart, Craig W.	Associate Vice President	Las Vegas	Managing Principal
Smith, Anna Lynn	Associate Vice President	Philadelphia	PA Transit Planning Business Class Lead
Smith, Kathleen G.	Associate Vice President	Austin	Senior Transportation Project Manager
Snead, Jerry W.	Associate Vice President	Dallas	South Central Conveyance Leader
Sommer, Daniel L.	Associate Vice President	Omaha	Nebraska Iowa Federal Coordinator
Stahulak, Jamie J.	Associate Vice President	Madison	Power Delivery Program Manager
Steinhart, Pamela J.	Associate Vice President	Irvine	Transportation Business Manager
Storgaard, Tena M.	Associate Vice President	Bellevue	Assistant Regional Accounting Director
Stremmel, Jacob A.	Associate Vice President	Blue Ash	Senior PM / OH Innovative Delivery Manager
Suarez, Daniel S.	Associate Vice President	Fort Lauderdale	Office Principal
Sudame, Mandira	Associate Vice President	San Diego	Senior Wastewater Project Manager
Sullivan, Allen R.	Associate Vice President	Colorado Springs	Marines Program Operations Manager
Sun, Simon	Associate Vice President	Kansas City	Senior Highway Project Manager
Sutherland, Andrew W.	Associate Vice President	Ann Arbor	Senior Project Manager
Tannehill, Shelly M.	Associate Vice President	Folsom	Regional Controller
Terry, Melissa J.	Associate Vice President	Corpus Christi	Regional Accounting Director
Todd, Scott R.	Associate Vice President	Mobile	FL/AL/MS Water Client Development Lead
Tonilas, Bruce J.	Associate Vice President	Denver	Denver CCC Construction Manager
Trinh, Vinh D.	Associate Vice President	Santa Ana	Senior Bridge Project Manager
Turbiville, Heath E.	Associate Vice President	Gillette	Wyoming Office Principal
Unger, Audrey C.	Associate Vice President	Phoenix	Area Environmental Sciences Business Class Leader
Vaccaro, Alicia M.	Associate Vice President	Mahwah	Area Wastewater Market Sector Lead
Van Dien, James P.	Associate Vice President	Bethlehem	Branch Office Manager
Van Santen, Victor E.	Associate Vice President	Rosemont	Rail Section Manager
Vasiljevic, Milos P.	Associate Vice President	Columbia	Principal Project Manager
Villarreal, Gabriel J.	Associate Vice President	Austin	Central Texas Roadway Business Class Lead
Volk, Daniel G.	Associate Vice President	Omaha	Nebraska Iowa Aviation Section Manager
von Thaden, Bradford H.	Associate Vice President	Boston	Resources Business Group Manager
Voss, Guy A.	Associate Vice President	Phoenix	West Region Alternative Project Delivery Leader
Waite, Cameron C.	Associate Vice President	Boise	Transportation Business Group Manager
Ward, Timothy F.	Associate Vice President	Pittsburgh	Pennsylvania Aviation Lead
Warner, Terry R.	Associate Vice President	Salt Lake City	Senior Project Manager
Warrix, Todd C.	Associate Vice President	San Antonio	Area Water Business Group Manager
Williams, Jonathan D.	Associate Vice President	Winston Salem	Deputy Water Business Group Operations Manager
Williams, Olivia L.	Associate Vice President	Seattle	Washington Resources Business Group Manager
Wood, Katherine M.	Associate Vice President	Anchorage	Area Business Development Leader
Yescas, Javier A.	Associate Vice President	San Diego	Water Resources Market Sector Area Leader
Young, Christina R.	Associate Vice President	Omaha	Assistant Regional Accounting Director
Zapata, Leonel A.	Associate Vice President	Doral	Federal Program Manager
Davies, Elisa B.	Secretary	Omaha	General Counsel
Buell, Elizabeth C.	Assistant Secretary	Omaha	Legal Administrative Assistant
Vik, Laurie S.	Assistant Secretary	Omaha	Paralegal
Heaney, Kathy M.	Treasurer	Omaha	Treasurer
Cox, Joseph R.	Assistant Treasurer	Omaha	Regulatory Reporting & Compliance Manager
White, Troy L.	Assistant Treasurer	Omaha	Assistant Treasurer