

FILED  
NO. 99-185

NF  
Comm Dev  
Lynda Teague

APPROVED 11/4/99 COMMISSIONERS MTNG.

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AMENDMENT NO. 1

BARBARA REED  
CLERK  
BY *[Signature]*  
DEPUTY

CONTRACT BETWEEN DOUGLAS COUNTY  
AND  
HDR ENGINEERING, INC.  
FOR

NORTH VALLEY WASTEWATER TREATMENT FACILITY MODIFICATIONS

WITNESSED

Whereas, on July 15, 1999, Douglas County, a political subdivision of the State of Nevada, and HDR Engineering, Inc., an independent contractor, entered into a contract for certain services; and

Whereas, the circumstances have changed requiring modifications to the engineering services by the Contractor; and

Whereas, on November 4, 1999, the Douglas County Board of Commissioners took action to approve Amendment No. 1 to the original agreement.

Now, therefore, in consideration of the agreements herein made, the parties mutually agree as follows:

- The Scope of Services is amended, as provided in Exhibit B1.
- The Contract Time is amended, as provided in Exhibit C1
- The Compensation Schedule is amended, as provided in Exhibit D1.
- All other sections of the original agreement remain in effect.

*[Signature]*  
\_\_\_\_\_  
HDR Engineering, Inc.

*[Signature]*  
\_\_\_\_\_  
Board of County Commissioners

Attest:  
*[Signature]*  
\_\_\_\_\_  
County Clerk  
*[Signature]*  
\_\_\_\_\_  
Chief Deputy Clerk

*[Signature]*  
\_\_\_\_\_  
District Attorney

*10/22/99*  
\_\_\_\_\_  
Date

*11-4-99*  
\_\_\_\_\_  
Date

*11-4-99*  
\_\_\_\_\_  
Date

*11/5/99*  
\_\_\_\_\_  
Date

RECEIVED

OCT 25 1999

DOUGLAS COUNTY  
COMMUNITY DEVELOPMENT

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**EXHIBIT B-1  
SCOPE OF SERVICES**

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**Douglas County  
North Valley Wastewater Treatment Facility Modifications**

**TASK 1 - PRELIMINARY DESIGN**

**Subtask 1-1. Review Background Data**

CONSULTANT will collect and review previous reports, data, and available information regarding recent plant operations, and plant performance, including geotechnical information.

**Subtask 1-2. Conduct Initial Project Meeting and Workshop No. 1**

CONSULTANT will conduct an initial project meeting in a workshop setting. This meeting will provide an opportunity to obtain County staff input and guidance regarding the scope of work and approach to the product. The meeting will be used to finalize the schedule, determine task priorities, and work out unresolved details. During this time, CONSULTANT will also discuss the approach to conducting future meetings and the mechanism for County operations, maintenance, and engineering staff to provide input on all phases of design. The kick-off meeting will also serve as Workshop No. 1 where the project team will brainstorm design and operational issues with County staff. This meeting will serve as the basis for development of Subtask 1-3 technical memoranda (TM).

➤ *Deliverables:* Workshop agenda and minutes.

**Subtask 1-3. Preparation of Draft Technical Memorandum**

Following the workshop, CONSULTANT will provide a draft TM with the following components: headworks (including review/analysis of influent pumping station, including potential need for VFDs for flow matching); septage facilities, and primary screenings (including review/analysis of potential replacement of Parshall flume with magnetic type flow meter); secondary treatment (including review/analysis of pond size and potential modifications to address detention time/algae growth); effluent filters; biosolids disposal; and electrical, instrumentation, and control. The TM will be submitted to the County for review.

➤ *Deliverable:* Draft TM (Five copies).

**Subtask 1-4. TM Review Meeting**

The County's review comments on the recommendations made in the TM will be discussed in a follow-up meeting. As with all project meetings, CONSULTANT's project management team will attend as will key CONSULTANT personnel and County staff. CONSULTANT will prepare and distribute minutes of meetings. The minutes will include a feature that has been very successful on other projects, a list of action items that people in the meeting promised or were assigned to perform.

➤ *Deliverables:* Meeting minutes.

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**EXHIBIT B-1**  
**SCOPE OF SERVICES**

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**Douglas County**  
**North Valley Wastewater Treatment Facility Modifications**

**Subtask 1-5. Prepare 10 Percent Design Report**

Following the TM review meeting, CONSULTANT will finalize the TM document. This finalized TM will function as a 10 percent design document. It will be used to guide the design work. It will be updated as needed as the design progressed. Design criteria will be summarized. It will show the site layout, and schematics for existing and proposed facilities. Costs for each phase will be reviewed.

➤ *Deliverables:* Finalized TM/10 percent design (One master and five copies).

**Subtask 1-6. Prepare Detailed System Analysis and Preliminary Design Layouts**

CONSULTANT will prepare detailed system analysis and preliminary design layouts for the five-phase expansion to 1.6 mgd as outlined in the TM prepared by George Tchobanoglous. Updated costs for each phase will be included. This work will proceed simultaneously with subtasks 1-1 through 1-5 and will result in a TM describing phasing of future improvements and recommended sequencing.

➤ *Deliverables:* TM (One master and five copies).

**TASK 2 - FINAL DESIGN**

**Subtask 2-1. Perform Topographic and Geotechnical Investigation/ Survey**

CONSULTANT will review existing information and make recommendations to the County on the need for geotechnical and topographic investigations/surveys. If needed, geotechnical investigation will be performed as well as topographic surveys. These reports will summarize necessary information for design and for selection of construction methods. Surveying will utilize aerial mapping with 1' contour interval and 1" = 40' horizontal scale. Final mapping will be in AutoCAD version 14 format.

➤ *Deliverables:* Geotechnical and topographic survey report if needed.

**Subtask 2-2. Prepare Drawings and Specifications**

CONSULTANT will prepare drawings in AutoCAD format. Specifications will be prepared in CSI format using EJCDC standard contract documents. Drawings will be prepared in AutoCAD Version 14 format. Progress submittals will be made to the County for review and approval at the 30 and 90 percent design stages. Items to be designed include:

1. Modifications to septage receiving station.
2. Standby generator (weatherproof enclosure).
3. Sludge storage facilities.

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SCOPE OF SERVICES**

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**Douglas County  
North Valley Wastewater Treatment Facility Modifications**

4. Pond Modifications (Parkson Biolac system).
5. Influent flow metering.
6. Influent pumping station modifications (installation of grinder pumps).
7. Landscaping plan.
8. Chlorine contact basin.
9. Blower building for Biolac aeration system.

➤ ***Deliverables:***

- Complete contract document for bidding using the EJCDC documents (base document provided by County) including advertisement for bids, instruction to bidders, bid form, agreement, general conditions, supplementary conditions, technical specifications and drawings.
- Five copies of the 30 percent construction drawings for County review and approval.
- Five copies of the 90 percent construction drawings and specifications for County review and approval.
- Two blue line prints of the 100 percent completed construction drawings including reproducible mylars.
- Two completed sets of construction documents (One unbound Master for reproduction).
- One computer disk with drawings AutoCAD v. 14 files and contract documents.

**Subtask 2-3. Quality Control/Quality Assurance (QA/QC)**

At the 10, 30, and 90 percent design stages, CONSULTANT will conduct a quality control design review.

- ***Deliverables:*** Comments to CONSULTANT design team on QA/QC review process.

**Subtask 2-4. Construction Sequencing and Operations During Construction (If Needed)**

CONSULTANT can prepare isometric drawings and sequencing descriptions for specifications after discussion with County staff on desired format. These will identify how and which facilities are removed from service, in what sequence, and how construction should proceed to ensure continuous plant process operation.

- ***Deliverables:*** Isometric drawings and descriptions for specifications.

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**EXHIBIT B-1  
SCOPE OF SERVICES**

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**Douglas County  
North Valley Wastewater Treatment Facility Modifications**

**Subtask 2-5. Prepare Detailed Construction Cost Estimate**

For Phase I, CONSULTANT will prepare a construction cost estimate for the construction contract, based on a detailed materials take-off. The estimate will be computer-generated and will include a project to the midpoint of construction. Estimates will be updated at the 30 and 90 percent design phases. Estimates will also be updated when significant concept or scope changes are made during the design. For the other four phases, CONSULTANT will update cost estimates.

➤ *Deliverables:* Construction cost estimate.

**Subtask 2-6. Project Management**

CONSULTANT's project manager will be responsible for effective and timely completion of the work. He will schedule the work, make personnel assignments, attend project meetings, serve as the County's contact person with our project team, and coordinate and direct the design and production activities. He will also organize and review the QA/QC program.

➤ *Deliverables:* Monthly progress reports.

**Subtask 2-7. Permits**

CONSULTANT will prepare and file the following permit applications for the project. The County will pay permit fees.

1. County Permits:

- Design Review (County to coordinate submittal requirements, CONSULTANT to provide documents).
- Site Improvement Permit
- Building Permit (including wet stamped calculations, outside County plan checker comment response costs are not included).

2. Fire Department (East Fork Fire District)

3. Nevada Division of Environmental Protection (includes submission of plans and specifications to NDEP for review and approval).

**TASK 3 - BIDDING SERVICES**

**Subtask 3-1. Services During Bidding**

CONSULTANT will conduct prebid meeting for Phase I, review bids, and recommend award for Phase I construction. CONSULTANT will issue one (1) addenda during the bidding phase.

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**EXHIBIT B-1  
SCOPE OF SERVICES**

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**Douglas County  
North Valley Wastewater Treatment Facility Modifications**

- *Deliverables:* Written addenda and/or clarifications to contract documents, written evaluation, and summary of bids.

**PRELIMINARY SHEET LIST**

- G-1. Cover Sheet
- G-2. Hydraulic Profile / Design Criteria / General Notes
- G-3. Legends and Abbreviations
- C-1. Site Plan
- C-2. Site Piping Plan
- C-3. Site Piping Details
- C-4. Site Piping Profiles
- SP-1. Headworks Modifications
- SP-2. Influent Pumping Station Modifications
- SP-3. Septage Receiving Station Modifications
- SP-4. Septage Receiving Station Section and Details
- SP-5. Sludge Storage Facilities Plan
- SP-6. Sludge Storage Facilities Plan Details
- SP-7. Generator Plan
- SP-8. Chlorine Contact Basin Plan and Sections
- SP-9. Chlorine Contact Basin Sections and Details
- SP-10. Biolac System Plans
- SP-11. Biolac System Details
- SP-12. Blower Building Plan
- SP-13. Blower Building Elevations

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**EXHIBIT B-1  
SCOPE OF SERVICES**

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**Douglas County  
North Valley Wastewater Treatment Facility Modifications**

SP-14 Blower Building Sections and Details I

SP-15. Blower Building Sections and Details II

SP-16. Standard Structural Details

E-1. Electrical Abbreviations and Symbols

E-2. Electrical Site Plan

E-3. Single Line I

E-4. Single Line 2

E-5. Power Plan

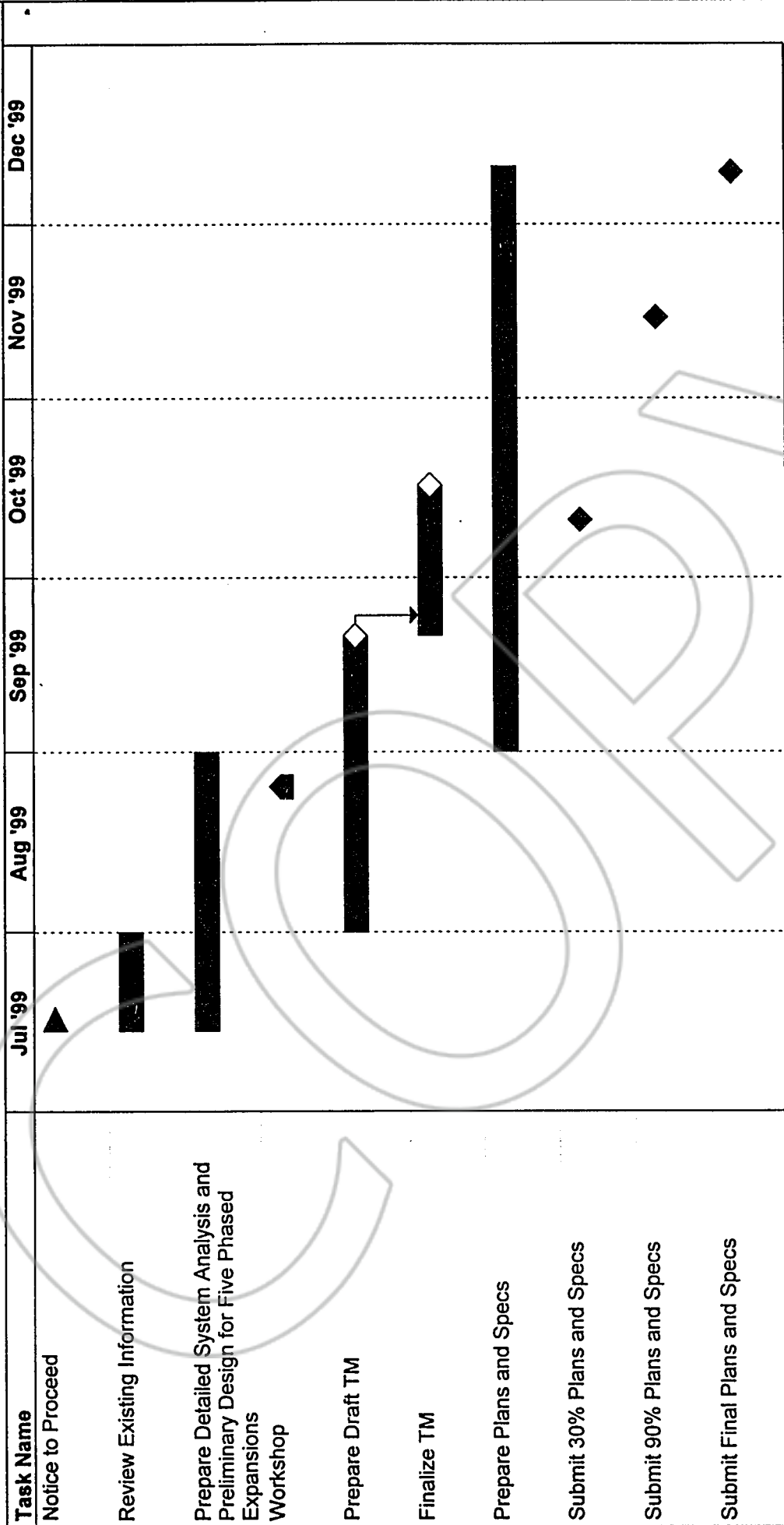
E-6. Control Diagrams

E-7: Standard Electrical Details

E-8. Blower Building Power Plan

E-9. Blower Lighting Plan and Details

# Exhibit C-1. Contract Time



Douglas County Community Development  
 North Valley Wastewater Treatment Facility Modifications  
 Design Services



**EXHIBIT D-1  
COMPENSATION SCHEDULE**

Douglas County  
North Valley Wastewater Treatment Facility Modifications

Task	PIC & QA/QC	Proj Mgr	Engr Tech Specialist	Elect Engr	Proj Engr	Tech	Clerical	Expenses	Total Costs
<b>Rates</b>	\$150	\$130	\$130	\$150	\$78	\$85	\$45		
<b>Task 1 - Preliminary Design</b>									
1. Review Background Data		4	8	4	8				\$2,784
2. Conduct Initial Project Meeting and Workshop No. 1		6	8		6	4		\$100	\$2,728
3. Prepare Draft TM	2	4	12	4	16			\$100	\$4,328
4. TM Review Meeting		6	8		6			\$200	\$2,488
5. Prepare 10% Design Report	1	6	12	4	16	16			\$5,698
6. Prepare Detailed System Analysis and Preliminary Design Layouts for Phases II - V	2	16	24		32	16		\$200	\$9,556
<b>Subtotal for Task 1</b>	<b>5</b>	<b>42</b>	<b>72</b>	<b>12</b>	<b>84</b>	<b>36</b>	<b>0</b>	<b>\$600</b>	<b>\$27,582</b>
<b>Task 2 - Final Design</b>									
1. Perform Topographic and Geotechnical Investigation/Survey								\$2,400	\$2,400
2. Prepare Drawings and Specifications		80	40	80	260	320	120	\$900	\$81,380
3. QA/QC	8						2	\$50	\$1,340
4. Construction Sequencing and Operations During Construction		4			4		2	\$100	\$1,022
5. Prepare Detailed Cost Estimate	1	2			8			\$50	\$1,084
6. Project Management		24						\$200	\$3,320
7. Permits		8			12		4	\$100	\$2,256
<b>Subtotal for Task 2</b>	<b>9</b>	<b>118</b>	<b>40</b>	<b>80</b>	<b>284</b>	<b>320</b>	<b>128</b>	<b>\$3,800</b>	<b>\$92,802</b>
<b>Task 3 - Bidding Services</b>									
1. Services During Bidding		12		4	24		20	\$400	\$5,332
<b>Subtotal for Task 3</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>4</b>	<b>24</b>	<b>0</b>	<b>20</b>	<b>\$400</b>	<b>\$5,332</b>
<b>Total Labor</b>	<b>14</b>	<b>172</b>	<b>112</b>	<b>96</b>	<b>392</b>	<b>356</b>	<b>148</b>		<b>\$125,716</b>
<b>Total Expenses</b>									<b>\$4,800</b>
<b>TOTAL PROJECT COST</b>									<b>\$ 130,516</b>

\* Monthly invoices will be submitted. Billings will be based upon time and expenses per the attached hourly rate schedule. Outside services and subconsultants will be billed at cost plus 10 percent. Individual task budgets cannot be exceeded. Total compensation is not to exceed a total of \$130,516

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COPY

REQUESTED BY  
**DOUGLAS COUNTY**  
IN OFFICIAL RECORDS OF  
DOUGLAS CO., NEVADA

1999 NOV 17 AM 9: 34

LINDA SLATER  
RECORDER

\$ 8 PAID KJ DEPUTY

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**CERTIFIED COPY**

The document to which this certificate is attached is a full, true and correct copy of the original on file and on record in my office.

DATE: November 15 1999  
B. Reed Clerk of the 9th Judicial District Court  
of the State of Nevada, in and for the County of Douglas.

By Carol M. Mullock Deputy

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