

**PROJECT MANUAL**  
**Construction Plans and Bidding Documents For**  
**SUNBEAM MUNICIPAL WELL CONSTRUCTION**

PROJECT OWNER

City of Hailey

PROJECT MANAGER

Brian Yeager, PE, PLS - Hailey Public Works Director

PROJECT ENGINEER

Eric Landsberg, P.E. – Clear Solutions Engineering



**Dated: March 17, 2025**

**City of Hailey, Idaho**  
**Public Works Department**  
**115 Main Street South**  
**Hailey, ID 83333**  
**208-788-4221**

**THIS PAGE LEFT BLANK INTENTIONALLY FOR DOUBLE SIDED COPYING.**

# TABLE OF CONTENTS

<b>I. INVITATION TO BID.....</b>	<b>1</b>
<b>II. INSTRUCTIONS TO BIDDERS .....</b>	<b>3</b>
IB-1. INTENT OF PLANS AND SPECIFICATIONS .....	3
IB-2. PLANS, SPECIFICATIONS, AND PROJECT SUMMARY.....	3
IB-3. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE.....	3
IB-4. PREPARATION AND DELIVERY OF PROPOSAL.....	4
IB-5. QUALIFICATIONS OF BIDDER .....	4
IB-6. AWARD OF CONTRACT .....	4
IB-7. FAILURE TO EXECUTE CONTRACT .....	4
IB-8. CONTRACTOR FOR PUBLIC WORKS TO PAY OR SECURE TAXES AGREEMENT .....	5
IB-9. PERFORMANCE PERIOD.....	5
IB-10. CONTRACTORS TO BE LISTED ON BID.....	5
<b>III. BIDDERS PROPOSAL.....</b>	<b>7</b>
ARTICLE 1 – BID RECIPIENT .....	7
ARTICLE 2 – BIDDER’S INFORMATION .....	7
ARTICLE 3 – BIDDER’S ACKNOWLEDGEMENTS .....	7
ARTICLE 4 – BIDDERS’S CERTIFICATION .....	8
ARTICLE 5 – BASIS OF BID/BID SCHEDULE .....	9
ARTICLE 6 – BID SUBMITTAL.....	10
ARTICLE 7 – NAMING OF SUBCONTRACTOR FORM.....	12
ARTICLE 8 – NON-COLLUSION AFFIDAVIT.....	13
ARTICLE 9 - BID BOND.....	14
<b>IV. AGREEMENT BETWEEN OWNER AND CONTRACTOR FOR CONSTRUCTION CONTRACT (DRAFT) .....</b>	<b>16</b>
ARTICLE 1. CONTRACT DOCUMENTS .....	16
ARTICLE 2. WORK.....	16
ARTICLE 3. PROJECT MANAGER and PROJECT ENGINEER.....	16
ARTICLE 4. CONTRACT TIMES/LIMITATIONS.....	17
ARTICLE 5. CONTRACT PRICE .....	17
ARTICLE 6 - PAYMENT PROCEDURES .....	17
ARTICLE 7 - INTEREST.....	18
ARTICLE 8. INDEPENDENT CONTRACTOR .....	18
ARTICLE 9. SCOPE OF SERVICES .....	18
ARTICLE 10. HOLD HARMLESS/INDEMNIFICATION.....	18
ARTICLE 11. CONFLICT OF INTEREST.....	19
ARTICLE 12. ENTIRE AGREEMENT, MODIFICATION AND ASSIGNABILITY .....	19
ARTICLE 13. ADHERENCE TO LAW REQUIRED.....	19
ARTICLE 14. LEGAL FEES.....	19

ARTICLE 15. SPECIAL WARRANTY.....	19
ARTICLE 16. COMMUNICATIONS .....	19
<b>V. GENERAL CONDITIONS OF THE CONTRACT .....</b>	<b>21</b>
GC-1. GENERAL .....	21
GC-2. COMPLIANCE.....	22
GC-3. DEFINITIONS.....	22
GC-4. PLANS AND SPECIFICATIONS AND ADDITIONAL DRAWINGS .....	23
GC-5. CONSTRUCTION REQUIREMENTS .....	23
GC-6. INSPECTION.....	24
GC-7. CONSTRUCTION WARRANTY.....	24
GC-8. ALTERATION OR MODIFICATION OF CONTRACT DOCUMENTS .....	24
GC-9. INVESTIGATION BY BIDDERS .....	24
GC-10. INTERPRETATION OF THE SPECIFICATIONS.....	24
GC-11. CONTRACTS.....	25
GC-12. AUTHORITY OF THE ENGINEER AND SUSPENSION OF WORK.....	27
GC-13. CHANGES AND EXTRA WORK.....	28
GC-14. DIFFERING SITE CONDITIONS.....	28
GC-15. MEASUREMENT AND PAYMENTS .....	29
GC-16. ABANDONMENT OF WORK.....	29
GC-17. AUTHORITY OF PROJECT MANAGER AND ENGINEER .....	30
GC-18. PERFORMANCE AND PAYMENT BONDS.....	30
GC-19. INSURANCE/CITY TO BE NAMED AS ADDITIONAL INSURED .....	31
GC-20. PATENT ROYALTIES AND PROCESS FEES .....	31
GC-21. CONTRACTOR RESPONSIBLE FOR WORK .....	31
GC-22. USE OF COMPLETED PORTION .....	31
GC-23. SIGNATURES.....	32
GC-24. ORDERS TO BEGIN WORK .....	32
GC-25. ORDER OF WORK .....	32
GC-26. EFFICIENCY OF OPERATION/LICENSING .....	32
GC-27. PROTECTION OF WORK AND PROPERTY .....	32
GC-28. RESPONSIBILITY FOR SAFETY.....	33
GC-29. GUARDS AND BARRICADES .....	33
GC-30. EXISTING TRAFFIC SIGNS AND FACILITIES .....	33
GC-31. MAINTAINING POSTAL SERVICE.....	33
GC-32. EMERGENCY WORK.....	34
GC-33. SUPERVISION OF WORK.....	34
GC-34. CORRECTION AND COMPLETION OF WORK.....	34
GC-35. SUBSTITUTES CLAUSE.....	35



GC-36. DETAILED BREAKDOWN OF CONTRACT PRICE .....	35
GC-37. CONTRACTOR'S RESPONSIBILITY FOR UTILITY PROPERTIES AND SERVICE .....	35
GC-38. STREET CLEANUP DURING CONSTRUCTION.....	36
GC-39. WORKMANSHIP AND CLEAN UP .....	36
GC-40. JURISDICTION AND VENUE.....	36
GC-41. PERMITS AND LICENSES .....	36
GC-42. NO THIRD PARTY BENEFICIARIES .....	37
<b>VI. WELL CONSTRUCTION SPECIFICATIONS .....</b>	<b>Error! Bookmark not defined.</b>

**THIS PAGE LEFT BLANK INTENTIONALLY FOR DOUBLE SIDED COPYING.**

## **I. INVITATION TO BID**

The City of Hailey, Idaho is soliciting bids from Public Works Contractors for the following project:

### **Sunbeam Municipal Well Construction**

All separate, sealed bids will be received by City of Hailey located at 115 Main Street South, Hailey, ID 83333 until **2:00 PM MDT on Thursday, May 1, 2025**. Direct any questions to Eric Landsberg, P.E. at [eric@clearsolns.com](mailto:eric@clearsolns.com). Before a proposal is selected, the Owner will conduct such investigation as is necessary to determine the performance record and ability of the selected contractor to perform the size and type of work specified. Contractor is to submit names of any subcontractors proposed for the work. Upon request, the contractor shall submit such information as deemed necessary by the Owner to evaluate the Contractor's qualifications. All proposals must be signed and accompanied by evidence of authority to sign.

The work required by the contractor shall include, but not be limited to the following:

1. Mobilization and Demobilization.
2. Installation/Removal of Temporary 24-inch Casing
3. Advance Bore and Installation/Removal of Lower Temporary Casing(s)
4. Furnish 16-inch Well Casing
5. Install 16-inch Well Casing
6. Furnish 16-inch Well Screens
7. Install 16-inch Well Screens
8. Furnish and Install Annular Well Seal
9. Well Development
10. Furnish, Install, and Remove Test Pump
11. Test Pumping
12. Rig Time.

The Issuing Office for the Bidding Documents is: Clear Solutions Engineering, Eric Landsberg, PE, email [eric@clearsolns.com](mailto:eric@clearsolns.com), telephone: (208) 608-3080. Bidding Documents are available in PDF format via e-mail for no charge. Alternatively, printed Bidding Documents may be obtained from the Issuing Office upon receipt of payment for the Bidding Documents. The non-refundable cost of printed Bidding Documents is \$100.00 per set, payable to "Clear Solutions Engineering." Partial sets of Bidding Documents will not be available from the Issuing Office. Neither Owner nor Engineer will be responsible for full or partial sets of Bidding Documents, including Addenda if any, obtained from sources other than the Issuing Office.

A pre-bid meeting will be held virtually via Microsoft Teams on Wednesday, April 16, 2025 at 2:00 PM. All potential bidders are encouraged to attend. Contact Eric Landsberg at [eric@clearsolns.com](mailto:eric@clearsolns.com) to request meeting invitation link.

An Idaho Public Works License is required to submit a bid.

Any objection to the contents or terms of the bidding instructions and project plans and/or specifications shall be raised (3) days prior to the bid opening, or it shall be deemed to have been waived.

The City of Hailey reserves the right to reject any or all proposals, waive any nonmaterial irregularities in the proposals received, and to accept the proposal deemed most advantageous to the best interest of the City of Hailey.

**THIS PAGE LEFT BLANK INTENTIONALLY FOR DOUBLE SIDED COPYING.**

## **II. INSTRUCTIONS TO BIDDERS**

### **IB-1. INTENT OF PLANS AND SPECIFICATIONS**

It is the intention of these specifications to provide for careful, thorough, and workmanlike construction procedure in the installation of material and equipment and in the manufacture or delivery of such materials and equipment. The bidder to whom the contract is awarded shall furnish all the material, equipment, and labor necessary to complete said contract in accordance with all of its terms and conditions. All contracts shall be awarded subject to those instructions to bidders.

The plans and specifications shall be considered and used together; anything appearing as a requirement of either shall be accepted as applicable to both even though not stated therein or shown. All specifications and notes appearing on the plans shall have the same force and effect as though they were repeated herein.

### **IB-2. PLANS, SPECIFICATIONS, AND PROJECT SUMMARY**

The Issuing Office for the Bidding Documents is: Clear Solutions Engineering, Eric Landsberg, PE, email: eric@clearsolns.com, telephone: (208) 608-3080. Bidding Documents are available in PDF format via e-mail for no charge. Alternatively, printed Bidding Documents may be obtained from the Issuing Office upon receipt of payment for the Bidding Documents. The non-refundable cost of printed Bidding Documents is \$100.00 per set, payable to "Clear Solutions Engineering." Partial sets of Bidding Documents will not be available from the Issuing Office. Neither Owner nor Engineer will be responsible for full or partial sets of Bidding Documents, including Addenda if any, obtained from sources other than the Issuing Office.

**Project Summary:** The work required by the contractor shall include, but not be limited to the following:

1. Mobilization and Demobilization
2. Installation/Removal of Temporary 24-inch Casing
3. Advance Bore and Installation/Removal of Lower Temporary Casing(s)
4. Furnish 16-inch Well Casing
5. Install 16-inch Well Casing
6. Furnish 16-inch Well Screens
7. Install 16-inch Well Screens
8. Furnish and Install Annular Well Seal
9. Well Development
10. Furnish, Install, and Remove Test Pump
11. Test Pumping
12. Rig Time

### **IB-3. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE**

Bidders shall satisfy themselves by personal examination of the plans, specifications, and site of the proposed improvement, and by any other examinations and investigation which they may desire to make, as to the accuracy of the estimate of quantities, the nature of the soil, conditions of the project site, and difficulties to be encountered.

Direct all questions to Eric Landsberg, PE at Clear Solutions Engineering at 208-608-3080 or eric@clearsolns.com.

#### **IB-4. PREPARATION AND DELIVERY OF PROPOSAL**

Bids shall be prepared and submitted in accordance with Section III, "Bidder's Proposal". Each and every blank provided for in the "Bidder's Proposal" shall be filled in with ink or typing. Proposals, which are incomplete or submitted on an unauthorized form, may be rejected as informal.

ALL BIDS SHALL INCLUDE THE FOLLOWING:

1. "Bid Proposal" – Section III, completed in its entirety and including all required documentation.
2. Each bid proposal must be accompanied by cash, a certified check, bid bond, or cashier's check in the amount not less than 5% of the total amount bid, payable to the City of Hailey.

Failure to properly execute and submit any of these documents as part of the bid **will** render the bid as being incomplete and **will** become cause for rejection of the bid.

Idaho Public Works Licenses are required to submit a bid in accordance with the project manual.

The City of Hailey reserves the right to reject any or all bids, any or all schedules, or to accept the bid or schedule deemed to be in the best interest of the City of Hailey.

#### **IB-5. QUALIFICATIONS OF BIDDER**

The owner desires that this project shall be built by a contractor who is competent and adequately financed. The Owner may request the Bidder to submit a written statement to show experience in construction work of this character as an indication of qualification and business standing. If required, the Bidder may make his/her statement in such form as may seem appropriate; said statement shall be notarized.

Idaho Code 54-1902 requires Bidder and Subcontractors to have the appropriate Public Works Contractors License to submit a bid or proposal for this project.

Within 5 days of the OWNER's request, BIDDER shall submit written evidence such as financial data, previous experience, present commitments, and such other data as may be called for below.

- A. The BIDDER's work force assigned to the Work and present commitments of said work force, including subcontractor's work force and present commitments of said work force.

#### **IB-6. AWARD OF CONTRACT**

The contract will not be awarded until the owner is satisfied the successful bidder is reasonably familiar with the class of work upon which he/she has submitted a proposal and has the necessary capital and tools to satisfactorily perform the same. The owner may request, and the bidder must provide, the owner with a current balance sheet and a list of tools owned by the bidder.

This project consists of a Unit Price Bid Contract. The Contract award will be made upon the basis of the proposal that, in the owner's judgment, will serve the best interest of the Owner and the City.

#### **IB-7. FAILURE TO EXECUTE CONTRACT**

In the event the successful bidder fails to furnish approved performance and payment bonds, execute the contract and comply with all other pertinent legal requirements within ten (10) days after notification by the engineer of the award of contract, the Owner shall terminate the contract unconditionally. The next best proposal will then be considered the successful bid and, at the discretion of the owner, be awarded the contract.

## **IB-8. CONTRACTOR FOR PUBLIC WORKS TO PAY OR SECURE TAXES AGREEMENT**

The contractors, in consideration of securing the business of erecting or constructing public works in this State, recognizing that the business in which he/she is engaged is of a transitory character, and that in the pursuit thereof, his/her property used therein may be outside of the State when taxes, excises, or license fees to which he/she is liable become payable, agrees:

1. To pay promptly when due all taxes, (other than real property), excises and license fees due to the State, its subdivisions, and municipal quasi-municipal corporations therein, accrued or accruing during the term of this contract, whether or not the same shall be payable at the end of such term;
2. That if the said taxes, excises, and license fees are not payable at the end of said term, but liability, for the payment thereof exists, even though the same constitute liens upon his/her property, to secure the same to the satisfaction of the respective officers charged with the collection thereof; and
3. That, in the event of his/her default in the payment or securing of such taxes, excises, and license fees, to consent that the department, officer, board, or taxing unit entering into this contract may withhold from any payment due him hereunder the estimated amount of such accrued and accruing taxes, excises, and license fees for the benefit of all taxing units to which said contractor is liable. The amount of retainage held for payment of the taxes accrued and accruing from this contract shall not exceed 5% of the contract amount as per Idaho Code, Title 54, Chapter 19.

## **IB-9. PERFORMANCE PERIOD**

Construction shall be completed in accordance with the terms, conditions, and timelines specified in Article 4 of the Agreement

## **IB-10. CONTRACTORS TO BE LISTED ON BID**

All bidders shall comply with Idaho Code Section 67-2310. **Failure to comply with Idaho Code Section 67-2310 shall render such bid unresponsive and void.** Information provided pursuant to this section must be current and correct as of the date of the submission of the bid. Do not use the term "mechanical" when identifying any work to be performed on this project.

The prime contractor shall submit with his/her proposal a list of the Contractors and their license numbers, if applicable.

The name, address and bid amount for each Contractor to be utilized on the project must appear on the bid. Every Contractor intending to perform plumbing work, and/or heating and air conditioning work, and/or electrical work must include its name, address and which allows it to perform such work, and bid amount for each of the following areas: plumbing work, heating and air conditioning work, electrical work. If a Contractor intends to perform work in more than one of these specialties, such a Contractor must list its name, address, Idaho Public Works License Number (may be listed as 'pending' for this federally funded project), and bid amount more than once (i.e., for each of the following subject areas: plumbing work, heating and air conditioning work, electrical work).

Every contractor intending to perform its own plumbing work, and/or heating and air conditioning work, and/or electrical work must include its name, address, and Idaho Public Works License Number (may be listed as 'pending' for federally funded projects) which allows it to perform such work for each of the following areas: plumbing work, heating and air conditioning work, electrical work. A contractor does not need to list the amount of the bid for plumbing work, heating and air conditioning work, or electrical work which it intends to perform.

**THIS PAGE LEFT BLANK INTENTIONALLY FOR DOUBLE SIDED COPYING.**



### **III. BIDDERS PROPOSAL**

#### **ARTICLE 1 – BID RECIPIENT**

1.01 This Bid is submitted to the City of Hailey. This bid is for the Project titled: **SUNBEAM MUNICIPAL WELL CONSTRUCTION - 2025**

#### **ARTICLE 2 – BIDDER’S INFORMATION**

2.01 BIDDER’s Name: \_\_\_\_\_  
BIDDER’s Idaho Public Works Contractor License No.: \_\_\_\_\_  
License Expiration Date: \_\_\_\_\_  
BIDDER’s Business Address: \_\_\_\_\_  
BIDDER’s Business Phone No.: \_\_\_\_\_  
BIDDER’s FAX No.: \_\_\_\_\_  
BIDDER’s Email Address: \_\_\_\_\_

#### **ARTICLE 3 – BIDDER’S ACKNOWLEDGEMENTS**

This proposal is submitted as an offer by the undersigned to enter into contract with the City of Hailey, Idaho, hereinafter referred to as the “OWNER” for the SUNBEAM MUNICIPAL WELL CONSTRUCTION – 2025, specified herein, and which construction documents are on file with Clear Solution Engineering, LLC, and which are a condition hereof with the same force and effect as though they were attached hereto. The offer is conditioned on the following declarations as to the facts, intention and understanding of the undersigned and the agreement of the OWNER to the terms and prices herein submitted.

1. All project specifications and drawings examined by the undersigned and their terms and conditions are hereby agreed to.
2. The undersigned certifies that he has received or made himself aware of any and all existing site conditions that may affect the proposed work.
3. It is understood that the contract drawings may be supplemented by additional drawings and specifications in explanation and elaboration of the contract drawings and it is agreed that such supplemental drawings, when not in conflict with those referred to in paragraph 1 above, will have the same force and effect as if attached hereto and that when received they will be considered a part of the contract.
4. The undersigned will furnish separate performance and payment bonds and insurance certificates, as required by the specifications, in the full amount of the contract price within the time limit therein after notification that the said proposal is accepted, all in accordance with the provisions of this proposal and the specifications.
6. The undersigned further agrees that the OWNER shall have the right to accept or reject any bid deemed to be in the best interest of the OWNER or the City of Hailey.
7. The undersigned agrees to order all necessary equipment and materials within a period of three (3) days after Notice to Proceed has been issued by the OWNER.
8. The undersigned, as a BIDDER, acknowledges that Addenda Number \_\_\_\_\_ through \_\_\_\_\_ have been delivered to him and have been examined as part of the contract documents.

9. The undersigned agrees to complete all work embraced in the contract within the time limitations set forth in paragraph IB-9 of the Instruction to Bidders.

#### **ARTICLE 4 – BIDDERS’S CERTIFICATION**

4.01 BIDDER certifies that:

A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation; BIDDER has not directly or indirectly induced or solicited any other BIDDER to submit a false or sham Bid; and BIDDER has not sought by collusion to obtain for itself any advantage over any other BIDDER or over OWNER.

**ARTICLE 5 – BASIS OF BID/BID SCHEDULE**

5.01 BIDDER will complete the Work in accordance with the Contract Documents for the following price(s):

<b>Bid Item</b>	<b>Item Description</b>	<b>Estimated Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total Amount</b>
1	Mobilization and Demobilization	1	lump	\$	\$
2	Installation/Removal of Temporary 24-inch Casing	78	ft	\$	\$
3	Advance Bore and Installation/Removal of Lower Temporary Casings	95	ft	\$	\$
4	Furnish 16-inch Well Casing	100	ft	\$	\$
5	Install 16-inch Well Casing	100	ft	\$	\$
6	Furnish 16-inch Well Screens	75	ft	\$	\$
7	Install 16-inch Well Screens	75	ft	\$	\$
8	Furnish and Install Annular Well Seal	1,200	cu ft	\$	\$
9	Well Development	40	hour	\$	\$
10	Furnish, Install, and Remove Test Pump	1	lump	\$	\$
11	Test Pumping	26	hour	\$	\$
12	Rig Time	1	hour	\$	\$
<b>BID - TOTAL (Sum of Items 1 through 12)(Amount) =</b>				\$	\$

**BID OPTIONS**

BO1	Drill 6-inch Test Bore	173	ft	\$	\$
BO2	Furnish, Install, and Remove Temporary 22-inch Casing	173	ft	\$	\$
BO3	Furnish, Install, and Remove Temporary 22-inch Casing	173	ft	\$	\$
BO4	Furnish, Install, and Remove Temporary 22-inch Casing	173	ft	\$	\$
BO5	Install Gravel Filter Pack	1,250	cu ft	\$	\$

**EARLIEST POSSIBLE START DATE:** \_\_\_\_\_

**ARTICLE 6 – BID SUBMITTAL**

6.01 Submitted on \_\_\_\_\_, 20\_\_\_\_.

6.02 This Bid is submitted by:

An Individual

Name (typed or printed): \_\_\_\_\_

By: \_\_\_\_\_  
(Individual’s signature)

Doing Business As: \_\_\_\_\_

A Partnership

Partnership Name: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature of general partner – attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

A Corporation

Corporation Name: \_\_\_\_\_

State of Incorporation: \_\_\_\_\_

Type (General Business, Professional, Service, Limited Liability): \_\_\_\_\_

By: \_\_\_\_\_  
(Signature – attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

(CORPORATE SEAL)

Attest: \_\_\_\_\_

A Joint Venture

Name of Joint Venture: \_\_\_\_\_

First Joint Venture Name: \_\_\_\_\_

(SEAL)

By: \_\_\_\_\_  
(Signature of first joint venture partner – attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

Second Joint Venture Name: \_\_\_\_\_

(SEAL)

By: \_\_\_\_\_  
(Signature of second joint venture partner – attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

(Each joint venture must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

**ARTICLE 7 – NAMING OF SUBCONTRACTOR FORM**

Per Idaho Code, 67-2310, BIDDER shall include in his or her Bid the names and address, and Idaho Public Works Contractor License Number of the Subcontractors who shall, in the event the Bidder secures the Contract, subcontract for plumbing, heating and air-conditioning work, and electrical work under the general Contract.

**Plumbing Subcontractor Name and Address**

**Public Works License Number**

---

---

---

---

**HVAC Subcontractor Name and Address**

**Public Works License Number**

---

---

---

---

**Electrical Subcontractor Name and Address**

**Public Works License Number**

---

---

---

---

In addition to subcontractors for plumbing, heating and air-conditioning work, and electrical work, provide the names and addresses of the additional subcontractors, suppliers, individuals or entities called for in the Instruction to Bidders (include Idaho Public Works Contractor License Numbers for any subcontractors)

**Additional Subcontractor Name and Address**

**Public Works License Number**

---

---

---

---

**Additional Subcontractor Name and Address**

**Public Works License Number**

---

---

---

---

**Additional Subcontractor Name and Address**

**Public Works License Number**

---

---

---

---

**ARTICLE 8 – NON-COLLUSION AFFIDAVIT**

**SUNBEAM MUNICIPAL WELL CONSTRUCTION - 2025  
City of Hailey, Idaho**

**CONTRACTOR’S NON-COLLUSION AFFIDAVIT**

STATE OF IDAHO  
Blaine County

\_\_\_\_\_ being first duly sworn, deposes and says that he/she is \_\_\_\_\_ of \_\_\_\_\_, the party making the foregoing bid; that such bid is not made in the interest of or on behalf of any undisclosed person, partnership, company, association, organization, or corporation; that such bid is genuine and not collusive of sham; that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, nor that anyone shall refrain from bidding; that said bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of said bidder or of any bidder, nor to fix any overhead, profit, or cost element of such bid price, nor that of any other bidder, nor secure any advantage against the public body awarding the contract or anyone interested in the proposed contract; that all statements contained in such bid are true, and, further, that said bidder has not, directly or indirectly, submitted his bid price or any breakdown thereof, nor the contents thereof, nor divulged information or data relative thereto, nor paid and will not pay fee in connection therewith to any corporation, partnership, company, association, organization, bid depository, nor to any member or agent thereof, nor to any individual, except such person or persons as have a partnership or other financial interest with said bidder in his general business.

Signed: \_\_\_\_\_

Title: \_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_

\_\_\_\_\_

Notary Public for \_\_\_\_\_

Residing at: \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

**ARTICLE 9 - BID BOND**

1. **BIDDER** (Name and Address): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. **SURETY** (Name and Address of Principal Place of Business): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. **OWNER** (Name and Address): \_\_\_\_\_

4. **BID:**  
Bid Due Date: \_\_\_\_\_  
Description (project name and location): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. **BOND**  
Bond Number: \_\_\_\_\_  
Date: \_\_\_\_\_  
  
Penal Sum: \_\_\_\_\_ \$ \_\_\_\_\_  
**(Words) (Amount)**

IN WITNESS WHEREOF, Surety and Bidder, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

6. **BIDDER** \_\_\_\_\_ (Seal)  
Bidder's Name and Corporate Seal

**SURETY** \_\_\_\_\_ (Seal)  
Surety's Name and Corporate Seal

By: \_\_\_\_\_  
Signature  
  
\_\_\_\_\_  
Print Name  
  
\_\_\_\_\_  
Title

By: \_\_\_\_\_  
Signature  
  
\_\_\_\_\_  
Print Name  
  
\_\_\_\_\_  
Title

Attest: \_\_\_\_\_  
Signature  
  
\_\_\_\_\_  
Title

Attest: \_\_\_\_\_  
Signature  
  
\_\_\_\_\_  
Title



Note: (1) Above addresses are to be used for giving required notice. (2) Any singular reference to Bidder, Surety, OWNER or other party shall be considered plural where applicable.

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to OWNER upon default of Bidder the penal sum set forth on the face of this Bond.
2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by OWNER) the executed Agreement required by the Bidding Documents and any Performance and Payment Bonds required by the Bidding Documents.
3. This obligation shall be null and void if:
  - 3.1. OWNER accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by OWNER) the executed Agreement required by the Bidding Documents and any Performance and Payment Bonds required by the Bidding Documents, or
  - 3.2. All Bids are rejected by OWNER, or
  - 3.3. OWNER fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon default by Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from OWNER, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
5. Surety waives notice of and any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by OWNER and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.
6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in paragraph 4 above is received by Bidder and Surety and in no case later than one year after Bid due date.
7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power or Attorney evidencing the authority of the officer, agent or representative who executed this Bond on behalf of Surety to execute, seal and deliver such Bond and bind the Surety thereby.
10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.
11. The term "Bid" as used herein includes a Bid, offer or proposal

## **IV. AGREEMENT BETWEEN OWNER AND CONTRACTOR FOR CONSTRUCTION CONTRACT (DRAFT)**

THIS AGREEMENT, is being made and entered into this \_\_\_\_ day of \_\_\_\_\_, 2025 and between The City of Hailey (hereinafter, "OWNER") and \_\_\_\_\_, (hereinafter, "CONTRACTOR"):

NOW THEREFORE, the parties to this Contract, in consideration of the mutual covenants and stipulations set out, agree as follows:

### **ARTICLE 1. CONTRACT DOCUMENTS**

The Contract Documents which comprise the entire agreement between the OWNER or City and the Contractor concerning the work to be performed are this Contract, pages one (1) through ( ) and the following:

1. Bid Documents titled, the SUNBEAM MUNICIPAL WELL CONSTRUCTION - 2025
2. Standard General Conditions of the Construction Contract, 2017 ISPWC (Idaho Standards for Public Works Construction) Division 100 (not attached) (pages 1 to 52, inclusive).
3. Bid Proposal (Section III) of the Contract, dated \_\_\_\_\_, 2025, to be physically attached to this Contract;
4. The Construction Specifications (25 pages);
5. General Conditions (Section V)
6. Supplementary Conditions (Section VI)
7. Performance and Payment Bonds and Insurance Certificates, to be physically attached to this Contract;
8. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
  - a. Notice of Award
  - b. Notice to Proceed.
  - c. Written Amendments.
  - d. Work Change Directives.
  - e. Change Orders.
  - f. Substantial completion certification
  - g. Final completion certification
9. Change Orders, which may be delivered or issued after the effective date of this Agreement;
10. Addenda issued prior to opening of bids, to be physically attached to this contract;
11. WH-5 – Public Works Contract Report for Idaho State Tax Commission
12. W9

There are no Contract Documents other than those listed in Article 1. This Contract may only be amended by change order as provided in the General Conditions.

### **ARTICLE 2. WORK**

The Contractor shall complete the entire work as specified, indicated and required under the Contract Documents. The Work is generally described as follows: SUNBEAM MUNICIPAL WELL CONSTRUCTION - 2025.

### **ARTICLE 3. PROJECT MANAGER and PROJECT ENGINEER**

- 3.01 The City of Hailey City Engineer (Project Manager), is to act as the OWNER's representative and assume all duties and responsibilities, and have the rights and authority assigned to "OWNER" in the Contract Documents in connection with the completion of the "Work" in accordance with the Contract Documents and the General Conditions of the Idaho Standards for Public Works Construction (ISPWC).
- 3.02 The project has been designed by Clear Solutions Engineering, LLC (Project Engineer), which is to act as the OWNER's representative, assume all duties and responsibilities, and have the rights and

authority assigned to “Engineer” in the Contract Documents in connection with the completion of the “Work” in accordance with the Contract Documents and the General Conditions of the Idaho Standards for Public Works Construction (ISPWC).

#### **ARTICLE 4. CONTRACT TIMES/LIMITATIONS**

##### **4.01 *Substantial Completion***

The Contractor shall begin work in conformance with the Contract Documents and shall complete the work prior to the date of completion. The project site will be available to the Contractor for project implementation following Notice to Proceed anticipated by May 23, 2025.

The work to be performed pursuant to this Contract, shall be substantially complete no later than September 30, 2025.

The project will be considered “Substantially Complete” when all work is complete, tested, and operational.

##### **4.02 *Final Completion***

The work shall be finally complete and ready for final payment, in accordance with Paragraph 14.07 of the ISPWC General Conditions, within 5 working days of the date of Substantial Completion Certification.

##### **4.03 *Working Hours***

Work can be performed 5 days a week (Monday through Friday) for a period of 12 hours (7:00 am to 7:00 PM) per day. Adjustment of the contract time can be made in accordance with the provisions of the Contract Documents as directed by the Project Engineer, Public Works Director, or the OWNER.

##### **4.04 *Liquidated Damages***

- A. CONTRACTOR and OWNER recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not completed within the times specified in paragraph 4.02 above, plus any extensions thereof allowed in accordance with Article 12 of the ISPWC Section 100 General Conditions. The parties also recognize the delays, expense, and difficulties involved in proving in a legal proceeding the actual loss suffered by OWNER if the Work is not completed on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty), CONTRACTOR shall pay OWNER \$500.00 for each day that expires after the time specified in paragraph 4.02 for Substantial Completion until the Work is substantially complete. After Substantial Completion, if CONTRACTOR shall neglect, refuse, or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by OWNER, CONTRACTOR shall pay OWNER \$500.00 for each day that expires after the time specified in paragraph 4.02 for completion and readiness for final payment until the Work is completed and ready for final payment.

#### **ARTICLE 5. CONTRACT PRICE**

OWNER shall pay CONTRACTOR for completion of the Work in accordance with the Contract Documents the amount of \_\_\_\_\_ (\$ \_\_\_\_\_) in current funds equal to the sum of the amounts determined pursuant to the CONTRACTOR’s Bid Proposal contained in Bid Form, Article 5, Section III.

#### **ARTICLE 6 - PAYMENT PROCEDURES**

##### **6.01 *Submittal and Processing of Payments***

- A. CONTRACTOR shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by ENGINEER as provided in the General Conditions.

Contractor shall provide an example Application for Payment submittal to the Project Engineer at the start of the project for review and approval.

6.02 *Progress Payments; Retainage*

- A. OWNER shall make progress payments on account of the Contract Price on the basis of CONTRACTOR's Applications for Payment on or about the 30th day of each month during performance of the Work as provided in paragraphs 6.02.A.1 and 6.02.A.2 below. All such payments will be measured by the schedule of values established in paragraph 2.07.A of the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no schedule of values, as provided in the General Requirements:
1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as ENGINEER may determine or OWNER may withhold, in accordance with paragraph 14.02 of the General Conditions:
    - a. 95% of Work completed (with the balance being retainage); and
    - b. 95% of cost of materials and equipment not incorporated in the Work (with the balance being retainage).
  2. Upon Substantial Completion, Owner shall pay an amount sufficient to increase total payments to Contractor to 95 percent of the Work completed, less such amounts as ENGINEER shall determine in accordance with Paragraph 14.02.B.5.

6.03 *Final Payment*

- A. Upon final completion and acceptance of the Work in accordance with paragraph 14.07 of the General Conditions, OWNER shall pay the remainder of the Contract Price as recommended by ENGINEER as provided in said paragraph 14.07, less any sum Owner is entitled to set off against Engineer's recommendation, including but not limited to liquidated damages.

**ARTICLE 7 - INTEREST**

- 7.01 All moneys not paid when due as provided in Article 14 of the General Conditions shall bear interest at the rate of 5% per annum.

**ARTICLE 8. INDEPENDENT CONTRACTOR**

The parties warrant by their signature that no employer-employee relationship is established between the Contractor and the OWNER by the terms of this contract. It is understood by the parties hereto that the Contractor is an independent contractor and as such neither it nor its employees, agents, representatives or subcontractors, if any, are employees of the OWNER for purposes of tax, retirement system, or social security (FICA) withholding.

**ARTICLE 9. SCOPE OF SERVICES**

The Contractor shall perform all services required by the Contract Documents. All work shall be completed in accordance with the specifications and plans established for this project.

**ARTICLE 10. HOLD HARMLESS/INDEMNIFICATION**

In addition to other rights granted the OWNER by the Contract Documents, the Contractor shall indemnify and save harmless the Architect and the Owner, its officers and employees, from all suits, actions, or claims of any character brought because of any injuries or damages received or sustained by any person, persons, or property on account of the operations of the Contractor or his subcontractors; or on account of or in consequence of any neglect in

safeguarding the work; or through use of unacceptable materials in constructing the work; or because of any act or omission, neglect, or misconduct of the Contractor or his subcontractors; or because of any claims or amounts recovered from any infringements of patent, trademark or copyright; or from any claims or amounts arising or recovered under the Workmen's Compensation Act or any other law, ordinance, order or decree.

**ARTICLE 11. CONFLICT OF INTEREST**

The Contractor covenants that it presently has no interest and will not acquire any interest, direct or indirect, in the project which would conflict in any manner or degree with the performance of its services hereunder. The Contractor further covenants that, in performing this Contract, it will employ no person who has any such interest. Should any conflict of interest arise during the performance of this Contract, Contractor shall immediately disclose such conflict to the Project Manager, Architect and the OWNER.

**ARTICLE 12. ENTIRE AGREEMENT, MODIFICATION AND ASSIGNABILITY**

This Contract and the exhibits hereto contain the entire agreement between the parties, and no statements, promises, or inducements made by either party, or agents of either party are valid or binding unless contained herein. This contract may not be enlarged, modified or altered except upon written agreement signed by the parties hereto. The Contractor may not subcontract or assign its rights (including the right to compensation) or duties arising hereunder other than as contemplated by the Contract Documents, without the prior written consent and express authorization of the OWNER.

**ARTICLE 13. ADHERENCE TO LAW REQUIRED**

All applicable local, state and federal statutes and regulations are hereby made a part of this contract and shall be adhered to at all times. Violation of any of these statutes or regulations by the Contractor shall be deemed material and shall subject the Contractor to termination of this contract for cause. No pleas of misunderstanding or ignorance on the part of the Contractor will in any way serve to modify the provisions of this requirement. The Contractor and his surety shall indemnify and save harmless the OWNER and the City of Hailey and its employees, agents and representatives against any claim or liability arising from or based on the violation of any such laws, codes, ordinances, or regulations, whether by himself, his employees, or his subcontractors.

**ARTICLE 14. LEGAL FEES**

In the event either party incurs legal expenses to enforce the terms and conditions of this contract, the prevailing party is entitled to recover reasonable attorney's fees and other costs and expenses, whether the same are incurred with or without suit.

**ARTICLE 15. SPECIAL WARRANTY**

The Contractor warrants that nothing of monetary value has been given, promised or implied as remuneration or inducement to enter into this Contract. The Contractor further declares that no improper personal, political or social activities have been used or attempted in an effort to influence the outcome of the competition, discussion, or negotiation leading to the award of this Contract. Any such activity by the Contractor shall make this Contract null and void.

**ARTICLE 16. COMMUNICATIONS**

Such communications as are required by this contract shall be satisfied by mailing or by personal delivery to the parties at the following address:

Contractor:

Owner: City of Hailey

115 Main Street South  
Hailey, Idaho 83333

IN WITNESS WHEREOF, said Contractor and the OWNER or City has caused this Contract to be executed on the day and year first above written.

Contractor:

Owner:

\_\_\_\_\_

by:

\_\_\_\_\_

Martha Burke, Mayor

ATTEST:

\_\_\_\_\_

Mary Cone, City Clerk

ACKNOWLEDGMENT

On this \_\_\_\_\_ day of \_\_\_\_\_, 2025, before me, a Notary Public of the State of Idaho, personally appeared \_\_\_\_\_, in his official capacity as \_\_\_\_\_, known to me to be the person described in the above document and acknowledged to me he executed the same.

SEAL

\_\_\_\_\_

Notary Public residing at \_\_\_\_\_.

My Commission expires \_\_\_\_\_

## **V. GENERAL CONDITIONS OF THE CONTRACT**

In addition to the general conditions described in this section, this project shall comply with the Standard General Conditions of the Construction Contract, 2017 Idaho Standards for Public Works Construction, Division 100. In case of a discrepancy between ISPWC, the general conditions described in this document shall govern.

### **GC-1. GENERAL**

1. All labor, materials, equipment, traffic control, and incidentals necessary for the completion of the work, as herein described in these specifications and as shown on the plans, shall be furnished by the Contractor. All work performed under this contract shall be completed in strict accordance with this PROJECT MANUAL, the project PLANS and where referenced, City of Hailey Standard Construction Specifications and the Idaho Standards for Public Works Construction (ISPWC). The PROJECT MANUAL and the project PLANS have precedence over City and ISPWC standards where there is a difference.
2. Damage to properties caused by the Contractor shall be repaired and paid for by the Contractor.
3. Settlement or premature deterioration of asphalt and base materials that occurs within a year from the date of 'Substantially Complete' shall be repaired at the Contractor's expense.
4. Equipment must be operated in such a manner as to minimize the damage to the surface of the existing roadways, driveways and landscaped areas. Track-type backhoes shall be equipped with approved street-use type tracks when necessary.
5. Construction items which are not explicitly covered in these written specifications but are required to make a functioning installation shall not be misconstrued by the Contractor as not being a part of the scope of the work covered by the contract. Those items which are not specifically covered in these specifications, but are required by the plans, shall be constructed in accordance with the construction industry's highest standards.
6. 'LOCATES' shall be the responsibility of the Contractor.
7. Unless otherwise directed, the Contractor shall refer to and comply with the requirements of ISPWC, latest edition.
8. Traffic control for all work is the full responsibility of the Contractor and shall adhere strictly to the requirements of the General Condition GC 31, the MUTCD, and as directed by the Project Engineer. One lane of traffic in each direction shall be maintained at all times. The contractor shall notify individual property owners at least 24 hours in advance as to when their driveways will be disrupted for construction activities.
9. It is the intent and purpose of these specifications and plans to obtain good workmanship throughout with the completed work complying with said specifications and plans and in full working order upon completion. Work will not be accepted until this result is obtained.
10. All debris or rubbish generated by the contractor's operations shall be removed and the areas occupied during such operation shall be left in a neat appearing condition. Any property, public or private, damaged by the contractor shall be repaired to its original condition at the expense of the Contractor.
11. Any damage to private property shall be repaired, replaced in kind, or the Owner compensated as required by the Project Documents.
12. Upon the satisfactory completion of all work embraced in the contract and specifications, including the cleanup, together with full compliance with the requirements of the General Specifications the Engineer

will, within one hundred-twenty (120) days after such completion and compliance, issue a certificate of completion to the Owner with two (2) copies to the Contractor.

**GC-2. COMPLIANCE**

The Contractor shall observe and comply with all Federal, State, and Local laws, codes, ordinances, and regulations, including all licensing and permit requirements which, in any manner, apply to the work being performed under this contract. No pleas of misunderstanding or ignorance on the part of the Contractor will in any way serve to modify the provisions of this requirement. The Contractor and his/her surety shall indemnify and save harmless the OWNER or City and its employees, agents and representatives against any claim or liability arising from or based on the violation of any such laws, codes, ordinances, or regulations, whether by himself/herself, his/her employees, or his/her subcontractors.

All work shall be completed in accordance with the specifications and plans established for this project.

**GC-3. DEFINITIONS**

<b>TERM</b>	<b>DEFINITION</b>
Attorney	The City Attorney of Hailey, Idaho.
Bid/Proposal	The written document which is required to be signed by the bidder and which contains the formal statement of price or prices to be paid by the City for the performance required, and which consists of Section III of this project manual
City	The City of Hailey, Valley County, Idaho, a municipal corporation existing under and by virtue of the laws of the State of Idaho. Action herein designated as taken by the City is to be considered the acts of the Council acting through the Mayor and Clerk.
Clerk	The duly appointed City Clerk of the City of Hailey, Idaho.
Contract Documents	These generally consist of the plans and project manual (specifications), agreement, performance bond, payment bond and proof of various types of insurance, including all modifications thereof incorporated in the documents before their execution. These are identified in the Contract.
Contractor	The person, persons, firm, partnership, corporation or other entity contracting to do the work under these specifications. The term also includes the Contractor's agents or employees.
Council	The duly elected Council of the City of Hailey, Idaho.
Engineer	The Project Engineer and resident engineers and inspectors acting under his/her orders; their authority being limited to the particular duties to which they are assigned.



Owner	The individual/entity that has ownership over the construction project and financial liability for implementation of the project. For this project, the owner is The City of Hailey
Project Manager/Construction Manger	The City of Hailey City Engineer, who has been assigned responsibility of project management of the "Project", by the Hailey Public Works Director, and assumes the role of representation of the OWNER.
Subcontractor	The person, persons, firm, corporation or other entity performing work under contract with the 'Contractor' but subject, in such performance, to all the requirements of the 'Contract Documents' insofar as they are pertinent.

**GC-4. PLANS AND SPECIFICATIONS AND ADDITIONAL DRAWINGS**

- A. The plans for this improvement and the specifications accompanying them shall be considered as a whole, and anything shown or called for in one and omitted in the other is as binding as if called for or shown by both. Figure dimensions shall be in all cases used in preference to scale dimensions. The intention of the documents is to include all labor and materials, equipment and transportation necessary for the proper execution of the work. Materials or work described in words so applied having a well-known technical or trade meaning shall be held to refer to such recognized standards.
- B. The Project Engineer shall furnish to the Contractor the necessary plans and specifications required for the execution of the work at no additional cost. The Project Manager or Engineer shall furnish with reasonable promptness, additional instructions, by means of drawings or otherwise, necessary for the proper execution of the work.
- C. The Contractor shall submit with such promptness as to cause no delay in his/her own work or in that of any other Contractor, copies of all shop drawings and schedules required for the work of various trades as required by the Project Manager or Engineer, and the Project Manager or Engineer shall review them with reasonable promptness, making desired corrections relating to effects on design. The Contractor shall make any corrections required by the Project Manager or Engineer, file with him such corrected copies as the Engineer shall direct, and furnish such other copies as may be needed. The Project Manager or Engineer's approval of such drawings or schedules shall not relieve the Contractor from responsibility for deviation from drawings or specifications, unless he/she has in writing called the Project Manager or Engineer's attention to such deviation at the time of submission, nor shall it relieve him from responsibility for errors of any sort in shop drawings or schedules.
- D. The Contractor shall keep one copy of all project drawings and specifications on site and in good order, available to the Project Manager or Engineer, and their representatives.

**GC-5. CONSTRUCTION REQUIREMENTS**

- 1. Excavation, including disposal, shall be in accordance with the latest addition of the Idaho Standards for Public Works Construction (ISPWC) and the standards of the of City of Hailey.
- 2. Three (3) days prior to construction, Contractor shall contact Dig-Line (800-342-1585) to locate all existing utilities.

3. Mobilization shall consist of preparatory work and operations, including but not limited to, those necessary for the movement of personnel, equipment, supplies and incidentals to the project site; for the establishment of offices, buildings and other facilities necessary for the work on the project; for premiums on bond and insurance for the project; for all other work and operations which must be performed or costs incurred before beginning production work on the various contract items.

## **GC-6. INSPECTION**

Work performed under this contract shall be inspected at various stages of progress. These inspections include, but shall not be limited to the following:

- a. Prior to and during the placement of base materials and all testing of placed materials.
- b. Prior to and during the placement of all plant mix asphalt pavement and all testing of placed materials.
- c. At the completion of the job, after all cleanup, backfilling, site stabilization and all other work is done and job is ready for final acceptance.

It shall be the responsibility of the Contractor to notify the Project Manager when the various phases of the project are ready for inspection.

Request for inspection may be verbal but shall be given in sufficient time to allow the Project Manager to arrange to be present as required. Failure to notify the Project Manager of the inspections shall be sufficient ground to reject the uninspected work and cause it immediate removal.

All discrepancies indicated by the inspector shall be corrected by the Contractor and reinspected before the next phase of operation is started. No claim shall be made for delays caused by correction of work found unacceptable to the inspector.

## **GC-7. CONSTRUCTION WARRANTY**

The Contractor's standard warranty and guarantee period, as described in Section 100 of the ISPWC General Conditions, shall be for 1 year, with the exception of concrete spalling, which shall carry a 2 year warranty. The warranty period shall commence on the date of final project acceptance by the OWNER.

## **GC-8. ALTERATION OR MODIFICATION OF CONTRACT DOCUMENTS**

No alteration or modification of the terms and conditions of the Contract Documents, except by written change order as provided herein, will be binding unless outlined in detail in a separate written addendum, and then only when properly signed and attested by the Contractor, the OWNER, and the Engineer.

## **GC-9. INVESTIGATION BY BIDDERS**

The instructions to bidders cover the general scope of this investigation under the article entitled "Examination of the Plans, Specifications and Site". Bidders are specifically instructed to faithfully examine and investigate all bid prices submitted on their proposals. No bidder may, without the consent of the OWNER or City, withdraw his/her proposal or claim damages or extra compensation by reason of any error or omission made by said bidder in preparing his/her proposal.

## **GC-10. INTERPRETATION OF THE SPECIFICATIONS**

- A. In the event the specifications and plans are deficient or not clearly expressed, the parties submitting proposals hereunder must apply to the Project Manager or Engineer for the required information or explanation before the bids are submitted.

- B. The request for such explanation or interpretation shall be made in writing and the person submitting the request will be responsible for its prompt delivery. Such interpretation or explanation will be given by the Engineer in writing and a copy will be filed in the office of the City Clerk. The OWNER or the City will not be responsible for any other explanation or interpretation of the plans and specifications. After submission of bids, no bidder shall claim any misunderstanding in or to the nature of the amount of work to be performed or attempt to hold the OWNER or City or any person responsible for any error or omission that may have been made by the bidder.

## GC-11. CONTRACTS

### A. Contract Form

- 1. A copy of the construction contract form is included in these documents.

### B. Execution of Contract

- 1. Within seven (7) days after receiving properly prepared Contract Documents from the OWNER, the successful bidder shall sign and return the contract to the OWNER. Work shall be started upon written notice to proceed from the Project Manager.
- 2. The Contractor agrees that he/she is as fully responsible to the OWNER and the City for the acts and omissions of his/her subcontractors and of persons either directly or indirectly employed by them, as he/she is for the acts and omissions of persons directly employed by him, and that the Contractor shall hold the OWNER and the City harmless for any activities of such subcontractors and shall indemnify and defend the OWNER and the City from damages and claims of whatever nature relating or resulting to the activities of such subcontractors.

### C. Subcontracts

Subcontractors, Equipment and Material: The successful bidder, in addition to listing the names and addresses of subcontractors in his/her bid, shall, within seven (7) days after award of the contract, notify the Engineer in writing of the names of all major equipment and material suppliers proposed for the principal parts of the work, and for such others as the Engineer may direct, and shall not employ any subcontractors, (or purchase any equipment), to which the Engineer, OWNER or the City may within a reasonable time object to as incompetent or undesirable.

- 2. Relations of Contractor and Subcontractor: The Contractor agrees to bind every subcontractor and every subcontractor agrees to be bound by the terms of the construction contract, the information to bidders, the general conditions, the plans, and the specifications as far as applicable to his/her work, including the following provisions of this article, unless specifically noted to the contrary in a subcontract approved in writing as adequate by the OWNER through its Engineer. Nothing in this section shall create any obligation on the part of the OWNER to pay to or to see to the payment of any sums to any subcontractor.

#### a. The Subcontractor shall agree:

- (1) To be bound to the Contractor by the terms of the Contract Documents, and to assume toward him all the obligations and responsibilities that he, by those documents, assumes toward the owner. Nothing contained in the Contract Documents shall create any contractual relation between any subcontractor and the OWNER.

- (2) To submit to the Contractor applications for payment in such reasonable time as to enable the Contractor to apply for payment. The Project Manager or Engineer shall, on request, furnish to any subcontractor, wherever practical, evidence of the amounts certified on his/her account.
- (3) To make all claims for extras, for extension of time and for damages for delays or otherwise, to the Contractor in the manner provided in the general conditions for like claims by the Contractor upon the owner, except that the time for making claims for extra cost is one week from the date such claim arises.

b. The Contractor agrees:

- (1) To be bound to the subcontractor by all the obligations that the OWNER or City assumes to the Contractor under the Contract Documents.
- (2) To pay the subcontractor for conforming work, upon the payment of certificates, if issued under the terms of payments for the work, the amount allowed to the Contractor on account of the subcontractor's work to the extent of the subcontractor's interest therein.
- (3) To pay the subcontractor for conforming work, upon the payment of certificates, if issued otherwise than as in (2) so that at all times his/her total payments shall be as large in proportion to the value of the work done by him as the total amount certified to the Contractor is to the value of the work done by him.
- (4) To pay the subcontractor for conforming work to such extent as may be provided by the Contract Documents or the subcontract if either of these provides for earlier or larger payments than the above.
- (5) To pay the subcontractor for conforming work on demand on his/her work or materials as far as executed and fixed in place, less retained percentage, at the time the certificate should be issued, even though the Engineer fails to issue it for any cause not the fault of the subcontractor.
- (6) To make no demands for liquidated damages or penalty for delay in any sum in excess of such amount as may be specifically named in the subcontract.
- (7) That no claim for services rendered or material furnished by the Contractor to the subcontractor shall be valid unless written notice thereof is given by the Contractor to the subcontractor during the first ten (10) days of the calendar month following that in which the claim originated.
- (8) To give the subcontractor an opportunity to be present and to submit evidence in any hearing involving his/her rights.
- (9) To pay each subcontractor for satisfactory performance of its contract no later than 20 calendar days from receipt of each payment the Contractor receives from the OWNER or City. The Contractor shall return retainage to each Subcontractor within 20 calendar days after the Subcontractor's work is satisfactorily completed.
- (10) To certify with each estimate payment to Subcontractors has been made within the prescribed time frames. The certification will be made on forms provided by

the OWNER or City, and returned within 20 calendar days of receiving the estimate payment.

D. OWNER or City's Right to Terminate Contract - If the Contractor:

1. Fails to begin work under the contract within the time specified in the "Notice to Proceed"; or
2. Fails to supply sufficient skilled personnel or suitable materials or equipment to complete the work within the time limits specified; or
3. Performs the work unsuitably or neglects or refuses to remove materials or to re-perform such work which is not in accordance with the plans and specifications; or
4. Discontinues the prosecution of the work for more than ten (10) days; or
5. Fails to resume work which has been discontinued within a reasonable time after notice to do so; or
6. Fails to make prompt payments to subcontractors or for labor, materials, or equipment; or
7. Disregards laws, ordinances, or the instruction of the Engineer; or
8. Becomes insolvent or is declared bankrupt, or commits any act of bankruptcy or insolvency; or
9. Makes an assignment for the benefit of creditors; or
10. Is guilty of a substantial violation of any provisions of the contract; in any such event(s), the OWNER or City, upon recommendation of the Project Manager or Engineer that sufficient cause exists to justify such action may, without prejudice to any other right or remedy, give notice to the Contractor and his/her surety of such delay, neglect, or default. If the Contractor or his/her surety, within a period of ten (10) days after such notice, does not proceed in accordance therewith, then the OWNER or City shall have full power and authority, without violating the contract, to take the prosecution of the work from the Contractor. The OWNER or City may appropriate or use any or all materials and equipment on the grounds as may be suitable and acceptable and may enter into an agreement for the completion of said contract according to the terms and provisions thereof, or use such other methods as may be required for the completion of the contract in an acceptable manner.

Costs and charges incurred by the OWNER or City, together with the cost of completing the work under the contract, will be deducted from any moneys due or which may become due the Contractor. If such expense exceeds the sum which would have been payable under the contract, then the Contractor and its surety shall be liable and shall pay to the OWNER or City the amount of such excess.

- E. Contractor's Right to Stop Work or Terminate Contract: If the work should be stopped pursuant to lawful order of a court of competent jurisdiction, or pursuant to lawful order of other public authority having jurisdiction, for a period of three months, through no act or fault of the Contractor or of anyone employed by him, or if the Engineer should fail to issue any certificate for payment within thirty (30) days after it is due, or if the OWNER or City should fail to pay to the Contractor within thirty (30) days of its maturity and presentation, any sum certified by the Engineer or awarded by the court, then the Contractor may, upon twenty-two (22) days notice to the OWNER or City and Engineer, stop work or terminate this contract or recover from the OWNER or City payment for all work executed and any loss sustained upon any plant or materials and reasonable profit and damages.

- F. Assignment: The Contractor shall not assign this contract or sublet or subcontract any portion of it without the prior written consent of the OWNER or City nor shall the Contractor assign any moneys due or to become due to him hereunder, without the prior written consent of the OWNER or City. Any such assignment or sublet without such prior written consent shall be null and void and shall be a ground for termination for cause of this contract by the OWNER or City.

**GC-12. AUTHORITY OF THE ENGINEER AND SUSPENSION OF WORK**

If the performance of all or any portion of the work is suspended or delayed by the Engineer or Project Manager for an unreasonable period of time (not originally anticipated, customary, or inherent to the construction industry) and the Contractor believes that additional compensation and/or contract time is due as a result of such suspension or delay, the Contractor shall submit to the Project Manager or Engineer in writing a request for adjustment within seven calendar days of receipt of the notice to resume work. The request shall set forth the reasons and support for such adjustment.

Upon receipt, the Project Manager or Engineer will evaluate the Contractor's request. If the Project Manager or Engineer agrees that the cost and/or time required for the performance of the contract has increased as a result of such suspension and the suspension was caused by conditions beyond the control of and not the fault of the Contractor, its suppliers, or subcontractors at any approved tier, and not caused by weather, the Engineer will make adjustment as provided (excluding profit) and modify the contract in writing accordingly. The Engineer will notify the Contractor of the determination whether or not an adjustment of the contract is warranted.

No contract adjustment will be allowed unless the Contractor has submitted the request for adjustment within the time prescribed.

No contract adjustment will be allowed under this clause to the extent that performance would have been suspended or delayed by any other cause, or for which an adjustment is provided for or excluded under any other term or condition of this contract.

### **GC-13. CHANGES AND EXTRA WORK**

The Engineer reserves the right to make, at any time during the work, such changes in quantities and such alterations in the work as are necessary to satisfactorily complete the project. Such changes in quantities and alterations shall not invalidate the contract nor release the surety, and the Contractor agrees to perform the work as altered.

If the alterations or changes in quantities significantly change the character of the work under the contract, whether or not changed by any such different quantities or alterations, an adjustment, excluding loss of anticipated profits, will be made to the contract. The basis for the adjustment shall be agreed upon prior to the performance of the work. If a basis cannot be agreed upon, then an adjustment will be made either for or against the Contractor in such amount as the Engineer may determine to be fair and equitable.

If the alteration or changes in quantities do not significantly change the character of the work to be performed under the contract, the altered work will be paid for as provided elsewhere in the contract.

The term "significant changes" shall be construed to apply only to the following circumstances:

- a. When the character of the work as altered differs materially in kind or nature from that involved or included in the original proposed construction; or
- b. When a major item of work, as defined elsewhere in the contract, is increased in excess of 125 percent or decreased below 75 percent of the original contract quantity. Any allowance for an increase in quantity shall apply only to that portion in excess of 125 percent of original contract item quantity, or in case of a decrease below 75 percent, to the actual amount of work performed.

### **GC-14. DIFFERING SITE CONDITIONS**

During the progress of the work, if subsurface or latent physical conditions are encountered at the site differing materially from those indicated in the contract or if unknown physical conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the contract, are encountered at the site, the party discovering such conditions shall promptly notify the other party in writing of the specific differing conditions before they are disturbed and before the affected work is performed.

Upon written notification, the Project Manager or Engineer will investigate the conditions, and if it is determined that the conditions materially differ and cause an increase or decrease in the cost or time required for the performance of any work under the contract, an adjustment, excluding loss of anticipated profits, will be made and the contract modified in writing accordingly. The Project Manager or Engineer will notify the Contractor of the determination whether or not an adjustment of the contract is warranted.

No contract adjustment which results in a benefit to the Contractor will be allowed unless the Contractor has provided the required written notice.

## **GC-15. MEASUREMENT AND PAYMENTS**

- A. The PAYMENT for all work described by the Plans and Specifications to construct this project shall be the unit price and lump sum amounts given in the Contractor's proposal / bid schedule, which price and payment includes all labor, materials, equipment, bonds, warranties, taxes, insurances, mobilization, cleanup, traffic control, permits, tests, shop drawings, submittal, freight, and incidental costs necessary to construct the improvements shown on the Plans and described in the Specifications and Contract Documents.

Individual pay items and units of measurement for payment are set forth in the Bid Schedule and Technical Specifications.

- B. The Contractor shall file monthly requests for payment with the Project Manager for all work completed on the Project for each month, respectively. Payments will be made by the "OWNER" for all work verified by the Engineer and approved by the OWNER and City Council via the Finance Department's warrant register.
- C. The OWNER or City may, but is not obligated to, withhold any payments to the Contractor, in addition to retained percentage, in such an amount or amounts as may be necessary to cover:
1. Payments that may be earned or due for just claims or labor or materials furnished in and about the work;
  2. Defective and/or condemned and/or non-conforming work or materials not remedied;
  3. Failure of the Contractor to make proper payments to a subcontractor;
  4. Reasonable doubt that this contract can be completed for the balance then unpaid;
  5. Damages to another Contractor where there is evidence thereof;
  6. Payments that cover all taxes, excises and license fees due the State and its taxing entities whether or not these monies are yet due and payable.

The OWNER or City shall have the right, but not the obligation, to disperse and shall have the right to act as agent for the Contractor for the limited purpose of dispersing such funds as have been withheld pursuant to this paragraph to the party or parties who are entitled to payment there from. In the event the OWNER or City elects to disperse such funds, the OWNER or City shall render to the Contractor a proper accounting of all such funds dispersed on behalf of the Contractor. Nothing herein shall create in such party or parties entitled to payment a cause of action against the OWNER or City for failure to exercise its rights pursuant to this section. Contractor further agrees that no cause of action shall accrue on behalf of the Contractor as a result of the OWNER or City's exercise of such right to disperse.

These requirements shall also apply to first or lower tier subcontractors.

## **GC-16. ABANDONMENT OF WORK**

If the Contractor abandons the work for a period of fourteen (14) days for any cause other than failure of the OWNER to make monthly payments, or refuses to comply with the provisions of the plans and specifications, the OWNER

shall have the right to notify the Contractor's surety and require said surety to complete the work in accordance with the aforesaid plans and specifications. In the event no liens or claims have been filed and the OWNER fails to make progress payments, the Contractor may then, at his/her option, cease operations until payments are resumed by notifying the OWNER of his/her intention to cease operations for this cause. Should the Contractor abandon the work, fail or refuse to complete the work embraced in this contract, or fail to pay just claims for labor and materials, the OWNER reserves the right to charge against the Contractor, and Contractor agrees to pay, all legal, engineering, or other costs caused by such abandonment, failure or refusal. The Contractor agrees that such legal costs shall also include the OWNER's costs of defending any suits in connection with such abandonment, failure or refusal and nonpayment of claims wherein the OWNER is made a co-defendant.

#### **GC-17. AUTHORITY OF PROJECT MANAGER AND ENGINEER**

- A. The Project Manager or Engineer shall decide questions which may arise as to the quality and acceptability of materials furnished and work performed, and as to the manner of performance and rate of progress of the work; questions which may arise as to the interpretation of the plans and specifications; and questions as to the satisfactory and acceptable fulfillment of the terms of the contract.
- B. The Project Manager or Engineer, including his/her employees and agents shall at all times have access to the work wherever it is in preparation or progress and the Contractor shall provide proper facilities for such access and for inspection. Inspections by the Project Manager or Engineer shall be promptly made. If any work should be covered up without approval or consent of the Engineer, it shall be uncovered, if required by the Engineer, for examination. The costs associated with the uncovering of such non-approved work shall be the responsibility of Contractor and shall not be charged to the OWNER or City.
- C. Reexamination of questioned work may be ordered by the Project Manager or Engineer and if so ordered the work must be uncovered by the Contractor. If such work be found in accordance with the plans and specifications, the OWNER or City shall pay the cost of the reexamination and replacement. If such work is found not in accordance with the plans and specifications, the Contractor shall pay such costs.

#### **GC-18. PERFORMANCE AND PAYMENT BONDS**

The Contractor shall execute a separate performance bond and payment bond, each in penal amounts at least equal to 100% of the of the full contract price, such bonds to be executed by a corporate bonding company (surety) licensed to do business in the State of Idaho and which is acceptable to the OWNER or City. Such corporate bonding company (surety) shall be required to be named on the current list of "Surety Companies Acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570. The premiums of such bonds shall be paid by Contractor. The performance bond shall be conditioned upon the Contractor's faithful performance of all the covenants and agreements on the part of the Contractor to be kept and performed at the times and in the manner set forth in the agreement, including the repair or replacement where required, or the cost of repair or replacement, of all work performed under the terms of this agreement. The payment bond shall be conditioned upon the payment to all persons, including subcontractors, who have, and fulfill, contracts for performing labor and furnishing materials in the prosecution of the work provided for in such contract, provided that every such payment bond shall be construed, regardless of its language, as incorporating within its provisions the obligation to pay those persons who furnish labor or materials as stated in the Contract Documents.

Such bonds shall remain in full force and effect during the term of this agreement and during the terms of any warranty required by the specifications and shall be held in the custody of the OWNER or City. The current power of attorney for the persons who sign for the surety company shall be attached to the bond. The power of attorney shall be sealed and certified with a "first hand signature" by an officer of the surety. A facsimile signature shall not be acceptable to the OWNER or City.

If, at any time, a surety on any such bond is declared as bankrupt or loses its right to do business in the state of Idaho or is removed from the list of surety companies accepted on Federal bonds, the Contractor shall, within ten (10) days



after notice from the OWNER or City to do so, substitute an acceptable bond (or bonds) in such form and sum signed by such other surety or sureties as may be satisfactory to the OWNER or City. The expense of such replacement bonds shall be borne by the Contractor. No further payments by the OWNER or City pursuant to this contract shall be deemed due nor shall be made until the new surety or sureties shall have furnished an acceptable bond to the OWNER or City.

#### **GC-19. INSURANCE/CITY TO BE NAMED AS ADDITIONAL INSURED**

The Contractor shall not commence work until he/she has obtained all insurance required under this section or until he/she has satisfied the OWNER or City in this respect; nor shall he/she allow any subcontractor to commence work until such subcontractor has also obtained such required insurance applicable to such subcontractor's work. The Contractor shall maintain such required insurance coverage throughout the term of this contract as will hold the OWNER or City harmless and shall indemnify the OWNER or City for any losses arising out of the Contractor's operations, including any contingent liability arising there from. The cost of such insurance shall be borne by the Contractor. The Contractor shall furnish copies of all insurance policies and/or certificates of insurance to the OWNER or City at the time of execution of this agreement. Each policy shall include a provision to the effect that it shall not be subject to cancellation, or reduction in the amounts of its liabilities, or any other material change, until notice has been given in writing to the OWNER or City and the Engineer not less than fifteen (15) days prior to such action. Contractor shall further cause the OWNER or City to be named as an additional insured on all applicable insurance policies.

- A. The Contractor shall take out and maintain during the term of this contract, statutory worker's compensation insurance for all employees who will work on this project, and if any work is subcontracted, the Contractor shall require the subcontractor similarly to provide such insurance for all of the latter's employees unless they are included under the protection afforded by the Contractor.
- B. The Contractor shall take out and maintain during the term of this contract comprehensive public and general liability insurance in accordance with the Project Specifications and Section 100 – General Conditions of the ISPWC
- C. The Contractor shall take out and maintain during the term of this contract builders risk insurance which shall be written in completed value form, shall protect the Contractor and the OWNER or City against 'all risks' of direct physical loss to buildings, structures, equipment and materials to be used in providing, performing or completing the project. This insurance shall be written with limits not less than the insurable value of the project at completion. This insurance shall include coverage while equipment or materials are in warehouses, during installation, during testing, and after the project is completed, but prior to final payment.
- D. Contractor's Responsibility for Materials. The Contractor shall be responsible for all materials and work performed until final acceptance by the OWNER or the City.
- E. Contractor shall require all subcontractors to maintain the above referenced insurance requirements and shall verify that such requirements have been met by requiring all subcontractors to provide certification therefore.

#### **GC-20. PATENT ROYALTIES AND PROCESS FEES**

The Contractor shall furnish the OWNER or City a license or licenses for the use of any process or processes in connection with this project. The Contractor shall include in the unit price bid any patent royalties or license fees for equipment installed or construction methods used.

#### **GC-21. CONTRACTOR RESPONSIBLE FOR WORK**

The Contractor shall be responsible for all work until its acceptance by the owner.

#### **GC-22. USE OF COMPLETED PORTION**

The OWNER or City reserves the right to use and occupy any portion of the improvement which has been completed sufficiently to permit use and/or occupancy, and such use and/or occupancy shall not be construed as an acceptance of the work as a whole or any part thereof. Any claims which the OWNER or City may have against the Contractor shall not be deemed to have been waived by such use and/or occupancy.

### **GC-23. SIGNATURES**

A proposal made by a corporation shall be signed and sealed by the legally authorized officers of said corporation. If awarded the contract, the contract shall also be executed by proper authorized officers and be affixed with the corporate seal. If a proposal or contract is signed by an agent, such agent shall furnish satisfactory written evidence of the agent's authority to sign as the legal representative of the bidder. An authorized partner of a co-partnership may sign the contract subject to the approval of the Attorney, who may, at his/her discretion, require each and every member of the co-partnership to sign the contract.

### **GC-24. ORDERS TO BEGIN WORK**

The successful bidder shall not begin work until after the contract has been executed and the surety bond and insurance has been approved by the Attorney. The order for the Contractor to begin work shall be issued by the Engineer by a written "Notice to Proceed".

### **GC-25. ORDER OF WORK**

- A. The contract period and time of completion will be as set forth Article 4 of the Agreement.
- B. The specific details of the order of work will be worked out in conjunction with the Project Manager or Engineer before construction begins. Before the successful bidder is authorized to begin work, he/she shall attend a pre-construction conference with the Project Manager or Engineer. At this time the successful bidder shall present a written schedule, for the entire project, specifying the beginning and completion dates for each phase of work. Once approved by the Project Manager or Engineer, this schedule shall be adhered to by the Contractor and he/she shall employ the necessary work force and equipment to maintain such schedule. Contractor further agrees that the approval by the Project Manager or Engineer of such schedule shall not create any liability for the Project Manager or Engineer or the OWNER or City for Contractor's means, methods, sequences, techniques or site safety.

### **GC-26. EFFICIENCY OF OPERATION/LICENSING**

The work embraced in this project shall be started at the earliest possible date after signing the contract, and shall be prosecuted regularly and without interruption thereafter, unless otherwise directed by the Engineer. The Contractor shall furnish work force and equipment sufficient to accomplish full completion of the work within the time specified in the proposal and contract. The Contractor shall at all times employ efficient and experienced workers. Contractor shall also require and verify that all workers and subcontractors are licensed in accordance with law and/or regulation.

### **GC-27. PROTECTION OF WORK AND PROPERTY**

- A. The Contractor shall exercise particular care in protecting surrounding buildings, trees, and property from injury during the demolition and construction operation, and shall be responsible for their protection and shall repair or compensate the owner thereof for any damage which may result from such demolition and construction operations. The expense of such compensation or repair shall be borne by Contractor, and shall not be the responsibility of the OWNER or City.
- B. The Contractor shall exercise particular care in protecting trees, located on private or public property, from injury during the demolition and construction operations. If the Contractor's duties under this agreement shall cause any damage, mutilation, or destruction whatsoever, of any public tree, due to Contractor's need

to remove, top, excavate, fill, or compact the roots of such public tree, or by the placement or storage of any materials which are hazardous to trees, near such public tree, the Contractor shall:

1. Inform the City Arborist of such need
  2. Plot the location of such tree on the site plan which is the subject of this agreement; and
  3. Comply with all permit requirements as set forth in Ordinance 853, \_\_8-17-09 City Code §5-8-1 et seq.
- C. Any utilities damaged by the Contractor shall be repaired by the Contractor and the Contractor shall be responsible to maintain temporary service until such damage is repaired. The expense of such repair and/or temporary service shall be borne by Contractor, and shall not be the responsibility of the OWNER or City.
- D. The Contractor shall provide and maintain temporary sidewalks, warning lights, barricades and other preventive means to safeguard pedestrian and vehicular traffic around the construction in accordance with GC-29 and GC-30, the Project Documents, and as deemed necessary by the Engineer and at no expense to the OWNER or City.
- E. During all construction operations, the Contractor shall construct and maintain such facilities as may be required to provide access by all property owners to their property. No person shall be cut off from access to his/her residence or place of business unless the Contractor has made a special arrangement with the affected persons.
- F. Construction operations and parking of vehicles shall be confined to areas designated by the Engineer. Contractor shall consult the proper traffic regulatory authorities regarding the routing of trucks and other vehicles, and shall follow the direction of such authorities.

#### **GC-28. RESPONSIBILITY FOR SAFETY**

The Contractor shall be responsible for the safety of his/her work, equipment, and materials until the finished project is accepted by the OWNER or City.

#### **GC-29. GUARDS AND BARRICADES**

The Contractor shall erect and maintain such barricades, detour signs and warning lights as will effectively mark any hazards or detours and the Contractor shall be liable for any damage occasioned by his/her acts or negligence, or the acts or negligence of his/her employees, agents or subcontractors, and shall indemnify the OWNER or City and the Engineer against loss and/or liability for any such damage, acts or negligence. Traffic signs shall be in accordance with the standards presented in the most current edition of the "Manual on Uniform Traffic Control Devices" and as specified in TS-2.

#### **GC-30. EXISTING TRAFFIC SIGNS AND FACILITIES**

Existing traffic and street name signs which will interfere with construction shall be removed by the Contractor and stored in a safe place. These signs shall not be removed until the Contractor has obtained the consent of the traffic regulatory authorities having jurisdiction and until the necessary measures have been taken to safeguard traffic after the signs have been removed. Preservation and maintenance of the signs shall be the sole responsibility of the Contractor. As soon as sign location no longer interferes with work, the Contractor shall reset all such signs at locations indicated by the traffic regulatory authorities having jurisdiction, in cooperation with the Engineer. All costs incurred in work outlined above shall be considered as incidental to the construction contract, and shall be borne by Contractor.

#### **GC-31. MAINTAINING POSTAL SERVICE**

Postal service shall be maintained in accordance with instructions of the U.S. Postal Service. All costs incurred in work outlined above shall be considered as incidental to the construction contract, and shall be borne by Contractor.

### **GC-32. EMERGENCY WORK**

The Contractor will not be allowed added compensation for any emergency work performed on Sundays or legal holidays unless such work is ordered in writing by the Engineer.

### **GC-33. SUPERVISION OF WORK**

- A. During the progress of the work, the Contractor shall employ a competent superintendent and any necessary assistants at the job site. The superintendent shall not be changed except with the approval of the Engineer (or upon the order of the Engineer should the superintendent be or become unsatisfactory to the Engineer) unless the superintendent proves to be unsatisfactory to the Contractor and ceases to be in his/her employ. The superintendent shall represent the Contractor in the Contractor's absence and all directions given to him shall be as binding as if given to the Contractor. Important directions shall be so confirmed on written request in each case.
- B. The Contractor shall give efficient supervision to the work, using his/her best skill and attention. he/she shall carefully study and compare all drawings, specifications and other instructions and shall at once report to the Engineer any error, inconsistency or omission which he/she may discover, but he/she shall not be held responsible for their existence or discovery.

### **GC-34. CORRECTION AND COMPLETION OF WORK**

- A. Correction of Work before Final Payment:
  - 1. The Contractor shall promptly remove from the premises all materials condemned by the Engineer as failing to conform to the contract, whether incorporated in the work or not, and shall re-execute any work condemned by the Engineer as failing to conform to the contract, and the Contractor shall promptly replace such non-conforming materials and re-execute such non-conforming work in accordance with the contract, such costs of replacement and re-execution to be borne by Contractor at no additional expense to the Owner or the City.
  - 2. If the Contractor does not re-execute such non-conforming work and/or remove and replace such non-conforming materials within a reasonable time, fixed by written notice of the Engineer, then and in that event the OWNER or City may remove them and may store the material at the expense of the Contractor. If the Contractor does not pay the expenses of such removal within ten (10) days time thereafter, the OWNER or City may, upon ten (10) days written notice, sell such materials at auction or at private sale and shall account to Contractor for the net proceeds thereof, after deducting all the costs and expenses of such removal, storage, sale and repair. Nothing contained herein shall relieve the Contractor from his/her responsibility to perform the work in accordance with the Contract Documents, nor to reduce the liability of the Contractor to replace such non-conforming materials or re-execute such non-conforming work.
- B. Correction of Work after Final Payment: Neither the final certificate, nor payment, nor any provision in the Contract Documents shall relieve the Contractor of responsibility for faulty and/or non-conforming materials or workmanship and unless otherwise specified, he/she shall remedy any defects due thereto and pay for any damage to other work resulting there from, which shall appear within a period of one (1) year from the date of final acceptance and as specified in GC-7 . The OWNER or City shall give notice of observed defects with reasonable promptness.
- B. Deductions for Uncorrected Work: If the Engineer and the OWNER or City deem it inexpedient to correct work injured or done not in accordance with the contract, an equitable deduction from the contract price shall be made therefore.

### **GC-35. SUBSTITUTES CLAUSE**

In order to establish a basis of quality, certain processes, types of machinery and equipment, or kinds of material, may be specified on the plans or herein, by designating a manufacturer by name and referring to his/her brand or product designation. It is not the intent of these specifications to exclude other processes, equipment or materials or a type and quality equal to those designated.

- A. The materials, products and equipment described in the bidding documents establish a standard or required function, dimension, appearance and quality to be met by any proposed substitution.
- B. Approval of alternate and equal specified equipment and material will be only by addenda issued by the Engineer at least five (5) days prior to the award of contract. All such requests must be accompanied by drawings and specifications in sufficient detail to allow the Engineer to determine whether or not the equipment and materials proposed is equal to that specified. The determination as to whether or not the proposed substitute equals that specified, shall rest solely with the OWNER or City, based upon the opinion of the Engineer. The burden of proof of the merit of the proposed substitute shall be upon the proposer.
- C. No extras will be allowed by the Contractor for any changes required to adopt the substitute equipment; therefore, the Contractor's proposal, including the approved alternate, shall include all costs for any modifications to the plans such as structural and foundation changes, additional piping or changes in piping, electrical changes, or any other modifications which may be necessary or required for approval and adoption of the proposed alternate equipment.

### **GC-36. DETAILED BREAKDOWN OF CONTRACT PRICE**

The Contractor shall within five (5) days after receipt of Notice to Proceed submit a complete breakdown of all lump sum bid items showing the value assigned to each part of the work, including an allowance for profit and overhead.

### **GC-37. CONTRACTOR'S RESPONSIBILITY FOR UTILITY PROPERTIES AND SERVICE**

Certain utilities and structures which are expected to be adjacent to or encountered in the work are shown on the plans. It is known that there are discrepancies and omissions in the locations and quantities of existing utilities and structures shown. Those shown are for the convenience of the Contractor only, and no responsibility is assumed by either the OWNER or City or the Engineer for their accuracy or completeness.

- A. It is the Contractor's responsibility to notify "DIG-LINE/ONE CALL" at 811 prior to excavating and to comply with Idaho Code Section 55-2207 and all other applicable laws and regulations regarding the protection of underground utilities.
- B. At points where the Contractor's operations could cause damage which might result in considerable expense, loss, and inconvenience when his/her operations are adjacent to or near a railway, telephone, television, power, oil, gas, water, sewer, irrigation, or other private or municipal systems, the operations shall be suspended until all arrangements necessary for the protection thereof have been made by the Contractor.
- C. The Contractor shall notify all utility offices which are affected by the construction operation at least forty-eight (48) hours in advance of such construction. Under no circumstances shall the Contractor expose any utility without first requesting permission from and being granted to do so from the affected agency. Once permission has been granted, Contractor shall locate, if necessary, and expose all existing underground utilities in advance of any trenching operation. Hand digging shall be required within twenty-four (24) inches of a marked utility.

- D. The Contractor shall protect all poles from damage. If interfering power poles, telephone poles, guy wires, or anchors are encountered the Contractor shall notify the Engineer and the affected utility company at least forty eight (48) hours in advance of construction operations to permit the necessary arrangements to be made with the affected utility company for protection or relocation of the interfering structure.
- E. The Contractor shall be solely and directly responsible to the owners and operators of such properties for any damage, injury, expense, loss, inconvenience, delay, suits, actions, or claims, of any character brought because of any injuries or damage which may result from the carrying out of the work to be done under the contract. Contractor shall hold harmless, indemnify and defend the OWNER or City from any such claims.
- F. In the event of interruption to domestic water, sewer, storm drain, or to other utility services as a result of accidental breakage, or as a result of being exposed or unsupported, the Contractor shall promptly notify the proper authority. After such notification, the Contractor shall cooperate with said authority in restoration of service as promptly as possible and the Contractor shall bear all costs of repair. In no case shall interruption of any water or utility service be allowed to exist beyond working hours unless prior approval is received from the Engineer.
- G. In the event the Contractor encounters utility lines that interfere with trenching, the Contractor may, by obtaining prior written approval of the appropriate utility company, cut the service, dig through and restore the service with similar and equal materials at the Contractor's expense.

#### **GC-38. STREET CLEANUP DURING CONSTRUCTION**

The Contractor shall immediately clean all spilled dirt, gravel, and other foreign material caused by the construction operations from all streets open to public use. Streets within the project's work zone closed to public use shall be cleaned prior to weekends and prior to opening to public use.

#### **GC-39. WORKMANSHIP AND CLEAN UP**

It is the intent and purpose of these specifications and plans to obtain good workmanship throughout with the completed work complying with the said specifications and plans and in full working order upon completion. Work will not be accepted until this result is obtained.

The Contractor shall at all times during the work keep the premises clean and orderly. He/she shall promptly remove all waste materials and rubbish. All directions from the Engineer and all authorized public officials having jurisdiction over health and safety shall be obeyed.

Any damage to private property shall be repaired, replaced in kind, or the Owner compensated as required by the General Specifications.

Upon the satisfactory completion of all work embraced in the contract and specifications, including the cleanup, together with full compliance with the requirements of the General Specifications the Engineer will, within fifteen (15) days after such completion and compliance, issue a certificate of completion to the Owner with two (2) copies to the Contractor

#### **GC-40. JURISDICTION AND VENUE**

The District Court for the 5th Judicial District of the State of Idaho in and for Blaine County, Idaho is accepted as the proper forum having jurisdiction for any legal disputes between the parties.

#### **GC-41. PERMITS AND LICENSES**

The Contractor shall obtain and pay for all permits and licenses, including but not limited to the following:

- A. Those required by the Hailey City Code,
- B. Those required by the Idaho Code or other State Law.
- C. Those required by the Code of Federal Regulations or other Federal Law.

The OWNER shall reimburse the CONTRACTOR for the cost of all fees and permits associated with City of Hailey, Idaho Power, and the Idaho Transportation Department. The reimbursement amount shall be limited to the permit fee. All CONTRACTOR costs associated in obtaining the permit shall be incidental to the WORK.

**GC-42. NO THIRD PARTY BENEFICIARIES**

No claim as a third party beneficiary under this contract by any person other than Contractor shall be made or shall be valid against the OWNER or City, and the OWNER or City shall not be liable for or be held to pay any money to such person.

**VI. WELL CONSTRUCTION SPECIFICATIONS**

See attached well construction specifications.

**City of Hailey**  
**Sunbeam Well**  
**Preliminary Engineering Report**

*Prepared for*

**The City of Hailey**  
**and**  
**The Department of Environmental Quality**

*Prepared by*

**Eric Landsberg, PE**  
**Clear Solutions Engineering**  
**(208) 608-3080**

**Kurt Newbry, PG**  
**DNA HydroGeo**

**May 15, 2024**





## **Table of Contents**

## **Page**

1.	Introduction.....	3
2.	Hydrogeology .....	3
3.	Drilling Methodology.....	3
4.	Anticipated Water Quality.....	4
5.	Well Lot and Water Rights.....	5

## **1. Introduction**

The City of Hailey (City) proposes to construct the Sunbeam production well as a new source of supply for the City's municipal water system (PWS #ID5070022). This new well was referenced in the Idaho Department of Environmental Quality (IDEQ) approved facility plan submitted in May of 2015. A well site evaluation (WSE) for the proposed Sunbeam Well has been submitted and approved by IDEQ and should be referenced for additional information for this document. The Well Specifications are attached. This well will not be constructed until IDEQ approval of this preliminary engineering report and specifications submittal is received. The proposed well will be constructed in accordance with Idaho Rules for Public Drinking Water Systems (IDAPA 58.01.08) and Idaho Well Construction Standards Rules (IDAPA 37.03.09).

## **2. Hydrogeology**

The main aquifer underlying the proposed well consists of alluvial fill with coarse unconsolidated sediments consisting of mainly gravel with sand, cobbles, clay, and boulders. This aquifer is relatively shallow with the bottom at approximately 150-200 feet below ground level and the water level at approximately 50 feet below ground level according to surrounding driller's reports. It is an unconfined aquifer and highly productive with hydraulic conductivity ranging from 10-50 ft/day and a specific yield around 0.1 (unitless). The anticipated flow from the proposed Sunbeam Well is 1,500 gpm. Below this unconsolidated alluvial fill aquifer is consolidated (cemented) clays and sands that will not be targeted due to low hydraulic conductivity. In the area surrounding the Sunbeam Well, multiple wells encountered an approximate 10-foot-thick clay layer ranging from approximately 50 to 70 feet below ground level (bgl).

## **3. Drilling Methodology**

Almost all the wells in the area were drilled using the drill and drive technique with cable-tool or air rotary drilling rigs. Due to the coarse nature of the sediments (gravels, cobbles, and even boulders), mud rotary (reverse or direct) is not recommended for drilling this well. Most of the wells, including public water system wells in the valley, have been successfully completed by drilling and driving a larger temporary casing in for the seal, then drilling and driving the production casing to total depth. The production casing is then perforated, and a seal is installed between the production casing and temporary casing as the temporary casing is removed. This is the most successful drilling technique in the valley, but while using this technique, many wells still were not completed due to large boulders shifting and making it difficult if not impossible to advance or remove the

casing. Due to this, we are going to start the well with a temporary minimum 24-inch casing, and a bid option to start with a 30-inch casing and seal a permanent 24-inch casing. Starting with a larger casing and bore allows for additional step downs when advancing one size casing gets difficult. A 16-inch casing and screen is the anticipated final well construction.

For the base bid option, the 24-inch temporary casing will be installed to 58-78 feet below ground level (bgl) to target a potential clay layer between 50 and 70 feet bgl. Then, temporary 22-inch, 20-inch, and 18-inch casing can be used to advance the well to the final depth before installing the 16-inch casing and screen and pulling the temporary casing(s) out. As the 24-inch casing is removed, the seal will be installed.

The method using the 24-inch permanent casing includes installing a 30-inch temporary casing 58 to 78 feet bgl, a permanent 24-inch casing is installed and sealed while the 30-inch casing is removed. Then, temporary 22-inch, 20-inch, and 18-inch casing can be used to advance the well to the final depth before installing the 16-inch casing and screen and pulling the temporary casing(s) out. This method leaves more options available, but cost, casing availability, and driller capabilities may make this method difficult.

Using down hole perforated casing for the opening interval is a proven method in this valley that has provided multiple sand free wells with decent production.

These wells typically have the pumps set below the top of the perforated interval with no issues. This well is designed with wire wrap screens (to maximize open area, but likely will have the pump set below the top of the screens. Depending on how many temporary casing and borehole reductions it takes to reach total depth, filter pack may be installed, but due to the coarse nature of the native sediments, we do not expect to need to install filter pack. With the drill, drive, and pull back method of drilling, centralizers likely will not be used in the sections of the well below the surface seal due tight annular spaces. The well plans and specifications are provided as Appendix A at the end of this report.

#### **4. Anticipated Water Quality**

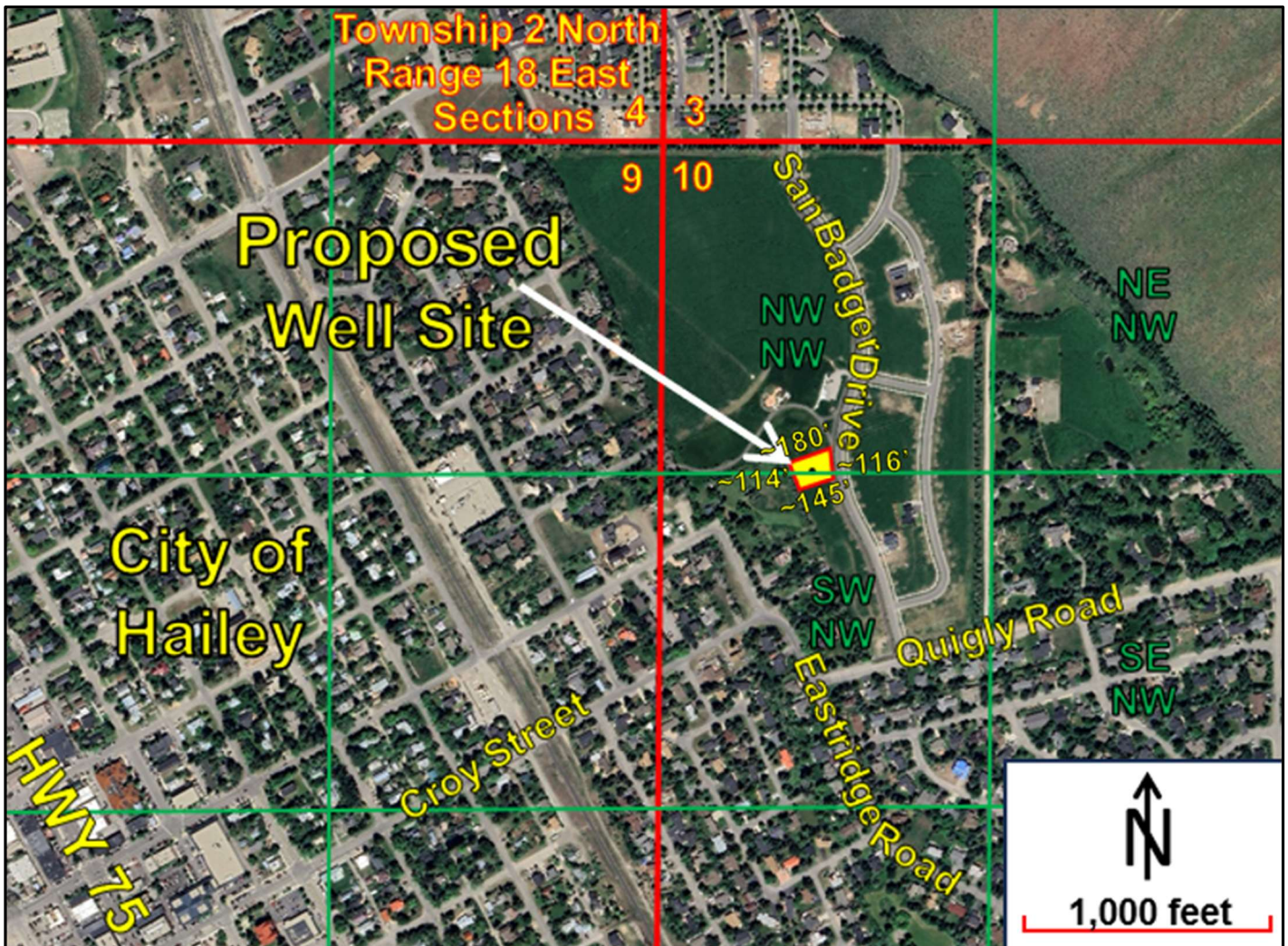
As described sections 2.3.3 and 2.4.1 in the approved City of Hailey Sunbeam Well, Well Site Evaluation, water quality from nearby City of Hailey wells suggest that good quality water is present in the alluvial fill aquifer at depths greater than 58 feet bgl. Considering the proposed well's distance from surface water, having a minimum 58-foot-deep seal, the lithology of the aquifer, and the chemistry of the other City of Hailey wells (similar construction), this well source

will not be under the direct influence of surface water. After construction the well will be tested for all analytes required for a new source Community Water System Well.

## 5. Well Lot and Water Rights

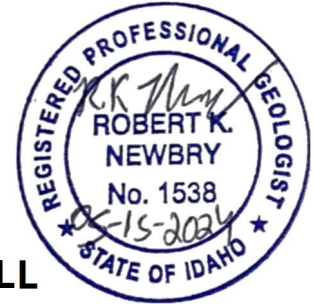
The proposed well site is located on a lot owned by the city of Hailey at 181 San Badger Drive, Hailey, Idaho. The well will be in the NW<sub>1/4</sub> of the NW<sub>1/4</sub> of Section 10 in Township 2 North, Range 18 East. This PLSS location has been added as a point of diversion to the City of Hailey's ground water right portfolio including water rights 37-2699, 37-2698, 37-7305, 37-22671, 37-22670, and 37-8837.

The well lot is larger than a 114-foot by 145-foot rectangle (approximate dimensions in Figure 1 below) allowing ample space for the 50-foot setback from the property boundary.



The well will be constructed to avoid the risk of surface and shallow groundwater contamination. The area around the well house will be graded to divert surface runoff away from the well and well house. Weather-resistant materials will be used to construct the well house to prevent outside contaminants from entering and reaching the well head. The well will be in a new well house with the casing extending a minimum of 12 inches above the well house floor.

**TECHNICAL SPECIFICATIONS**  
**CITY OF HAILEY**  
**SUNBEAM PUBLIC WATER SUPPLY WELL**



**PART 1 - GENERAL**

**1. THE REQUIREMENT**

- 1.1 This section outlines the requirements for the drilling, construction, development, and testing of one public water system well. The Contractor shall furnish all materials, labor, equipment, tools, supplies, transportation, and appurtenances for the following work requirements. The well is to be constructed in the City of Hailey in Blaine County, Idaho for the City of Hailey (the Owner) as specified herein and in accordance with the requirements of the Contract Documents. The well will be used as a public water supply well with a target yield of 1,500 gpm.
- 1.2 Work requirements are summarized below. Each item is discussed in the following sections of the Specifications.
1. Obtain a Drilling Permit.
  2. Mobilize to the work site.
  3. Furnish and install a minimum 24-inch steel casing to minimum 58 feet.
  4. Drill a minimum nominal 18-inch bore to allow placement of 16-inch casing and screens.
  5. Furnish and install 16-inch casing to approximately 98 feet and 16-inch screens from 98 feet to 173 feet.
  6. Develop the well mechanically and by surging.
  7. Disinfect well.
  8. Furnish, install, operate, and remove test pump.
  9. Disinfect well.
  10. Demobilize from the work site.
- 1.3 All well construction work shall conform to IDAPA 58.01.08, the Idaho Rules for Public Drinking Water Systems (IRPDWS), enforced by the Idaho Department of Environmental Quality (IDEQ), and IDAPA 37.03.09, and Well Construction Standards enforced by the Idaho Department of Water Resources (IDWR).
- 1.4 All materials used for well construction, including drilling fluids, shall be certified to ANSI/NSF Standard 60 or 61 approved.
- 1.5 Approximate depths of drilling and placement of casing, screens, filter pack and seal are provided for price estimation only. Exact depths and lengths may be adjusted by the Engineer depending on subsurface conditions.
-

**2. WORK TIMELINE**

2.1 A start date shall be submitted with the bid. The work shall begin after receipt of notice to proceed from the Engineer and within 30 calendar days of proposed start date. All work shall be completed within 90 calendar days of the proposed start date or 90 days after the notice to proceed.

**3. WORK SITE**

3.1 The well site is owned by the City of Hailey and is located at 181 San Badger Drive, Hailey, Idaho. The PLSS location of the site is Township 2 North Range 18 East Section 10 NW NW. The well site will be staked by the Engineer prior to Contractor mobilization.

3.2 Power is not available on site. The Contractor shall provide the required power to complete the work at his own expense. City water is available from a nearby fire hydrant. Contractor is to provide a backflow prevention device acceptable to the City before connecting to the fire hydrant

3.3 The Contractor shall provide, maintain, and be responsible for all Erosion and Sediment Control (ESC) structures, practices, permits, and plans to meet all project, local, state, and federal requirements for water quality and erosion and sediment control. Preparation of the drill shall be the responsibility of the Contractor. The Contractor shall be responsible for protecting life and property from excavated dangers as soon as drilling and testing operations are complete.

3.4 Holes, pits, equipment, and chemicals shall be safely stored and fenced per OSHA standards. All materials shall be stored safe from damage or contamination.

**4. DRILLING CONDITIONS**

4.1 Nearby Driller's Reports indicate drilling will be mainly in gravel, sand, and cobbles with possible boulders and some clays (provided in Exhibit 3). Static groundwater level is anticipated to be approximately 50 feet below ground surface.

4.2 The Contractor shall be responsible for providing notification to utility owners prior to beginning Work, by requesting a facility locate through Dig Line, Inc. at 1-800-342-1585 or [www.digline.com](http://www.digline.com).

4.3 It is the Contractor's responsibility to become informed about local conditions affecting this work. Neither the information contained in these specifications, nor gleaned from the Engineer or Owner, or their agents, shall act to relieve the Contractor from any responsibility set forth in the contract.

**5. CONTRACTOR QUALIFICATION AND EQUIPMENT**

5.1 The Contractor shall have at least five years of well drilling experience.

5.2 The Contractor shall submit a list of equipment to be used on the project. The list shall include: (1) manufacturer; (2) load capacities; (3) year of manufacture; and (4) year of purchase by current owner. The Contractor is responsible for providing equipment capable of performing the work specified.

5.3 Damages to the well or surrounding property by the Contractor's equipment, leased or otherwise, shall be repaired or replaced at the Contractor's expense.

**6. CONTRACT DOCUMENTS**

6.1 The form and detail of the various features of the Work are illustrated on the following drawings accompanying and made part of the Contract Documents:

- Exhibit 1 – Well Location Map
- Exhibit 2 – Well Conceptual Designs



- Exhibit 3 – Nearby Well Driller Reports

## PART 2 - PRODUCTS

### 1. CASING

1.0 Well Casing: The completed well shall be cased with nominal 16-inch O.D. casing from 2 feet above natural ground surface to a depth designated by the Engineer. The casing shall be new 304 stainless steel or equal with a minimum wall thickness of 0.375 inches. If possible, in the upper portion of the casing where the seal is being installed, the casing shall be equipped with stainless steel centralizers at a spacing of no more than 60 feet. If the 24-inch sealed well casing bid option is chosen, the casing shall be new steel ASTM A-53 or equal with a minimum wall thickness of 0.50 inches. The casing shall be equipped with centralizers approximately 5-feet from the top and the bottom.

### 2. WELL SCREEN

2.1 Well screen shall be of the V-slot continuous wire-wound (Johnson Free-Flow Screens or approved equal) type in 304 stainless steel of 16-inch pipe size. The top and bottom of the well screen shall be equipped with weld rings thick enough to weld the casing, centralizers, and/or the bottom plate to without damaging the screen wires. The bottom of the well screen shall be equipped with a minimum 0.375-inch thick stainless steel plate. Screens shall be manufactured to withstand pressure and depths up to 600 feet (increased depth rating to add strength for drill and drive method).

2.2 Final screen length, slot size, and depth will be determined by the Engineer after completion of the borehole and evaluation of driller's logs and drill cuttings. Screen length and slot size will be designed to keep entrance velocity below 0.3 feet per second. Assume 0.050-inch screen spacing for bid purposes.

2.3 If possible, centralizers shall be placed at the bottom and the top of the well screens.

### 3. SAND FILTER PACK

3.1 It is likely sand or gravel filter pack will not be needed. In the case it is used, the sand filter pack shall consist of clean, well-rounded siliceous Colorado Silica Sand with a uniformity coefficient of 2.5 or less, and conforming to one of the following gradation specifications to be determined following analysis of drill cuttings.

16-30 Filter Sand - 90-100% passing No. 16 sieve, 90-100% retained on No. 30 sieve

10-20 Filter Sand - 90-100% passing No.10 sieve, 90-100% retained on No. 20 sieve

8-12 Filter Sand - 90-100% passing No. 8 sieve, 90-100% retained on No. 12 sieve

6-9 Filter Sand - 90-100% passing No.6 sieve, 90-100% retained on No. 9 sieve

### 4. WELL SEAL

4.1 The annulus outside the 16-inch well casing will be sealed with bentonite chips.

4.2 Bentonite chips used for the annular seal shall be specifically recommended by the manufacturer for use as a seal material in water wells. Bentonite chips shall be of sufficient size to accommodate proper placement for the existing subsurface conditions. Brand of bentonite shall be Baroid, Cetco, or approved equal. Bentonite chips may be installed through water if there is an annular space of 4 inches or more on all sides of the casing.



## **PART 3 - EXECUTION**

### **1. MOBILIZATION AND DEMOBILIZATION**

- 1.1 Upon receiving the Notice to Proceed, the Contractor shall obtain a drilling permit (water right 63-35460), move in all tools, equipment, and supplies necessary for the Work
- 1.2 The Contractor shall thoroughly clean the site after completion of the drilling, well construction, and test pumping operations. All excess drilling fluids, debris, and other materials used during these operations shall be removed and properly disposed of by the Contractor. Backfilled mud pits shall be compacted to 90 percent maximum dry density as determined by Standard Proctor Test (ASTM 698-00).
- 1.3 The Contractor shall promptly remove his equipment, temporary facilities, and materials, and leave the site in a condition approved by the Engineer and Owner. The Contractor shall repair any damage to the property or facilities caused by his operations prior to final acceptance of the work by the Engineer and Owner.

### **2. CONSTRUCTION SEQUENCE**

- 2.1 The sequence of construction for this project shall consist of the following:
  1. Obtain a drilling permit
  2. Mobilization
  3. Install a temporary 24-inch casing to minimum 78 feet below ground level (bgl) or into first clay below 58 feet bgl (or 30-inch casing to 58-feet, bid option).
  4. Advance a minimum 18-inch bore below upper temporary casing to total depth using minimum 18-inch casing
  5. Install 16-inch casing and screen
  6. Pull back temporary casing while installing filter pack if conditions require/allow
  7. Install surface seal while removing temporary casing
  8. Develop, video survey, and disinfect the well
  9. Furnish, install, and operate test pump
  10. Disinfect the well with chlorine solution
  11. Provide temporary cap on the well
  12. Demobilize

### **3. DRILLING**

- 3.1 The drilling method below the temporary surface casing shall be air-rotary or cable-tool. Alternate drilling methods must be approved by the Engineer.
- 3.2 The Contractor shall sample the drill cuttings at 5-foot intervals or shorter when there are pronounced changes in geologic formation. These samples shall be saved and maintained on the job site in a clean dry area. All samples are to be submitted to the Engineer. The samples shall be at least one-pint size, stored in zip-lock freezer style plastic bags, and be clearly labeled to show the depth and well from which collected.
- 3.3 The Contractor shall maintain a daily drilling log of the well. Information that shall be listed on the drilling log includes:
  1. Drilling fluids and additives, including quantity of materials used
  2. Drilling fluid properties, including weight, viscosity, and sand content (if applicable)

3. Type and diameter of bits used for drilling and total footage for each bit
4. Lithology
5. comments concerning the drilling characteristics of the borehole, including locations of any lost circulation zones.

3.4 The drilling log shall be kept on-site for inspection by the Engineer. The Contractor shall submit a Well Driller's Report to IDWR.

#### **4. PLUMBNESS AND ALIGNMENT**

4.1 The Contractor shall construct the well sufficiently straight and plumb to permit free installation and removal of a nominal 14-inch test or production pump. The hole shall be drilled to the depth designated by the Engineer with a total deviation of the casing not to exceed one degree per 100 feet of the well. The alignment will be considered satisfactory if the casing will permit the free lowering and raising of a dummy between land surface and the bottom of the 16-inch screen section. The dummy shall be constructed of a 40-foot length of standard 14-inch O.D. pipe. It shall be the responsibility of the Contractor to see that the well is being constructed straight and plumb within these limits at all times. Any indications of inadequate plumbness or alignment during drilling, casing, or pump setting operation shall be cause to require measurement of plumbness or alignment by a method approved by the Engineer. No payment shall be made for tests of alignment; any such tests shall be considered subsidiary to other items in this contract.

4.2 If the well has unacceptable plumbness or alignment, the Contractor shall undertake remedial measures. Any alignment work required by the Contractor in re-drilling or straightening the well shall be at his sole expense. If a well is deemed unacceptable following remedial measures, then as much casing as can be removed from the well shall be salvaged by the Contractor. Salvaged casing will be the property of the Contractor. The well shall be abandoned in accordance with Idaho State regulations IDAPA 37.03.09.025.16 at the Contractor's expense. All payments associated with construction of the abandoned well shall be credited to construction of a replacement well.

#### **5. INSTALLATION OF WELL CASINGS, SCREEN, CENTRALIZERS, AND FILTER PACK**

5.1 Welding: Individual lengths of steel casing shall be joined by welding. Welding shall be performed by properly qualified operators following the manufacturer's recommendations and in accordance with AWWA C206. Welds shall penetrate the full thickness of the casing wall.

5.2 The standards of the American Welding Society, Structural Welding Code (AWS D1.1) shall apply for all welded joint casing and accessories. All welds shall conform to the latest revision of ANSI B31.1.

5.3 Weld Reinforcement: Weld reinforcement shall be as specified by the AWS code. Upon completion of welding, all weld splatter, flux, slag, and burrs left by attachments shall be removed. Welds shall be repaired to produce a workmanlike appearance, with uniform weld contours and dimensions.

5.4 When complete, the well casing shall extend a minimum of 18 inches above finished grade. Finished grade shall be at least 6 inches above natural ground level to provide slope away from the well in all directions.

5.5 Where applicable, centralizers shall be installed at intervals of no more than 60 feet.

5.6 If applicable, filter pack shall be installed by pouring from the surface. The pack shall be disinfected with chlorine prior to installation. The level of the pack shall be tagged at frequent intervals to confirm that it is not bridging. Following installation, the pack shall be settled by swabbing or other means.

**6. WELL SEAL**

- 6.1 The annular seal shall extend from the bottom of the upper temporary casing to ground surface. The temporary casing shall be withdrawn as the seal is placed.
- 6.2 The top of the bentonite chip seal shall be tagged continuously as the temporary casing is removed and to confirm top of chip level does not drop below the top of the temporary casing. Pour rates shall not exceed manufacturer's recommended rates. Seal level shall be checked by tagging with a sinker bar or other means. An annular space of 4 inches is required around the casing when installing bentonite chips through water or drilling fluid.
- 6.3 Volumes of seal material placed shall be carefully monitored and checked against calculated volume requirements.
- 6.4 The Engineer shall be notified a minimum of 48-hours prior to seal placement, and shall be present during seal placement.
- 6.5 Seals shall be installed in a slow and continuous manner, and temporary casing shall be withdrawn as the seal is placed.

**7. DEVELOPMENT**

- 7.1 The well shall be developed after installation of the casing, screen, and filter pack (if applicable). Acceptable development methods include pump surging (rawhiding), mechanical surging using a surge block or swab, air-lift surging, hydraulic jetting, or other methods approved by the Engineer. If the Contractor selects pump surging as the means of development and the well does not produce clear water free from sand or the well does not produce the desired yield of 1,500 gpm, then the Contractor will be required to perform mechanical development or jetting in addition to surge development. Any filter pack settled by development action shall be replaced to the design depth where possible. The Contractor shall provide a written log documenting development methods, discharge rates, and duration of each development operation.
- 7.2 Mechanical surging shall be performed using a surge block or swab. The outside diameter of the surge block or swab shall be only slightly smaller than the inside diameter of the casing (1/8 to 1/4-inch). Surging of the well shall begin in the casing immediately above the uppermost section of well screen. Initial surging shall be with a long stroke at a slow rate. Surging in the casing section shall continue until no additional appreciable quantity of sand, silt, or clay is brought into the well. Following surging of the casing, the surge block or swab shall be lowered into the lowest screened section and surge development continued. Surge development shall continue upward until the entire screen has been developed. The screen shall be surged in 20-foot sections. Surging shall then be repeated at a faster stroke starting at the bottom of the well. Periodically, the Contractor shall measure and bail from the well all sand, silt, and clay that has accumulated at the bottom. Surging shall continue until no more sediment is bailed from the well and the well produces clear water.
- 7.3 Hydraulic jetting shall be performed with a jetting tool to produce a minimum nozzle velocity of 150 feet per second. The jetting tool shall be lowered into the bottom of the screen, rotated slowly and continuously, and slowly raised throughout the entire screen length. Jetting shall be continued until the well produces clear water free from sediment. Simultaneous air-lift pumping may be employed to remove fines from the well.
- 7.4 The well may be developed using air-lift surging. For air-lifting, the Contractor shall have a compressor, tubing and eductor pipe to air-lift a minimum of 50 gpm average flow from 200 feet depth. Sufficient tubing or drill stem shall be available to reach the total depth of the well.

It is anticipated that air development will take place in a staged manner throughout the lower portion of the well, and thus may include considerable addition and subtraction of pipe. For long screen sections, a double-packer tool shall be used to develop short sections of screen. Periodically, the Contractor shall measure and bail from the well all sand, silt, and clay that has accumulated at the bottom.

- 7.5 Final well development shall be performed by alternately pumping and surging with the test pump. The well shall be pumped at a restricted initial pumping rate. As water clears, the pumping rate shall be gradually increased until maximum discharge rate is reached. At regular intervals, the pump shall be stopped and the water in the pump column shall be allowed to surge back through the pump intake. Development pumping shall continue until discharged water is clear and sand free (less than 5 ppm sand at the design capacity of the well), as measured by the Engineer.
- 7.6 The Contractor may be required to use a dispersant or other well development additive to achieve satisfactory development. All additives must be approved by the Engineer prior to use.
- 7.7 Upon completion of the development, all material shall be thoroughly cleaned from the inside of the casing and screen. Material shall be removed by bailing or by suction pumping. If removed by pumping, the Contractor shall have sufficient tubing or pipe to reach the total depth of the well.

## **8. VIDEO SURVEY**

- 8.1 After development, a video survey shall be performed on the well to confirm screen placement, proper development, and no damage prior to installation of test pump. The camera shall have adequate lighting with downhole and side views. If the water is cloudy, it will be up to the contractor to provide means to flush the well with clean water.

## **9. TEST PUMPING**

- 9.1 Following completion of development operations, the well shall be allowed to recover for 24 hours, or less if approved by the Engineer, prior to starting the pumping tests. Anticipated methods of aquifer testing include: (1) a step-test lasting approximately 1.5 hours, which will consist of pumping the well at various rates from approximately 500 gpm to the maximum capability of the pump or well; and (2) a constant-rate pumping test lasting a minimum of 6.5 hours at 2,250 gpm. The pumping test duration will be determined by the Engineer. The constant rate test may be extended to 24 hours if the well cannot be tested at a rate of at least 2,250 gpm (150% of the well target yield of 1,500 gpm). Standby time will not be paid for the recovery periods between tests or at the conclusion of test pumping. The Engineer shall be present at the start of test pumping. If the well cannot sustain 1,500 gpm for 24 hours or the test otherwise does not meet IDEQ requirements, well and water system design shall be re-evaluated with IDEQ consultation and notification.
- 9.2 The test pump shall be capable of delivering a least 2,250 gpm from a pumping level of 150 feet. The Contractor shall furnish and install all necessary equipment for testing, including a discharge valve or throttle to control flow rate, a pressure gauge, orifices, or flow meter for accurately measuring the discharge from the well, one nominal 1-inch pipes to the top of the pump to facilitate the installation and removal of an electric-line water-level probe. The Contractor shall measure and record water level, pumping rate, and elapsed time as directed by the Engineer. The Contractor shall provide at least two threaded and valved ports for monitoring pressure, sampling, and attachment of a Rossum Sand Tester by the Engineer. The Engineer shall be responsible for sand testing.

9.3 The Contractor shall be responsible for providing power for the test pump. The Contractor shall provide a means for safe refueling during operations to prevent even brief shutdowns during the testing. Shutdowns before the end of the testing procedure in excess of ten (10) percent of the total time anticipated for this testing procedure may require the Contractor to allow the water level to recover to pre-pumping conditions and re-start the test, as determined by the Engineer.

9.4 The Engineer shall be responsible for collecting water quality samples during the pumping test. The Engineer shall be responsible for determining whether (1) the well productivity is adequate to meet the project requirements and (2) water quality meets IDEQ requirements.

## **10. DISINFECTION**

10.1 Upon completion of all well construction activities and after removal of test pumping equipment, the Contractor shall disinfect the well using calcium hypochlorite or sodium hypochlorite.

1. The quantity of calcium hypochlorite or sodium hypochlorite shall be calculated per Idaho Well Construction Standards (IDAPA 37.03.09.025.23).
2. The Contractor shall distribute the disinfecting compound throughout the well to achieve a uniform concentration for “in place” disinfection of the well.
3. Chlorine granules or tablets must be dissolved and placed into the well as a solution.
4. All interior surfaces of the well above the static water level shall be wetted with calcium hypochlorite or sodium hypochlorite solution.

10.2 Near the end of the constant-rate discharge test, duplicate samples shall be collected by the Engineer and the samples shall be tested for the presence of coliform bacteria. The Contractor shall leave the test pump in the well until test results are reported. If any sample shows the presence of coliform bacteria, the Contractor shall collect duplicate samples (without charging rig or standby time while waiting on sampling results). If the second sampling event shows the presence of coliform bacteria, the Contractor shall re-disinfect the well until duplicate samples show the absence of coliform bacteria. It is recommended AWWA C654 be referenced for additional disinfection procedures.

## **11. WELL HEAD**

11.1 The completed well shall have 16-inch casing to 2 feet above natural ground surface. The top of well casing shall be equipped with a welded steel plate with access port, sanitary well seal, or vented well cap, as approved by the Engineer.

11.2 The well tag shall be permanently attached to the well casing such that the tag can be easily read. The well tag shall be attached per IDAPA 37.03.09 requirements.

## **12. PROTECTION OF WATER QUALITY**

12.1 All water used for drilling and development operations shall be of potable quality.

12.2 The Contractor shall take all necessary precautions to prevent contamination of the water in the well by the introduction of any foreign substance, including contaminated water, gasoline, oil, etc., and shall conform to all laws or regulations applicable to the protection of water quality. Facilities, equipment, and materials for disposing of the water produced during the development and testing of the well shall be provided by the Contractor. It is anticipated that clear water can be disposed of in the vicinity of the well site. Water leaving the well site shall be free of chemicals and seal materials. Water shall not be discharged to streams, ponds, or lakes without proper regulatory authorization.

- 12.3 All downhole materials (i.e., casing, pipe, pumps, sand filter pack, drilling tools, etc.) shall be disinfected with 500 ppm chlorine solution.
- 12.4 Chlorinated water shall be disposed of in accordance with federal, state, and local requirements. Where applicable, the Contractor shall obtain appropriate permits from regulatory agencies before discharging chlorinated water to the environment. Appropriate contacts and disposal methods vary depending upon the location where the chlorinated water will be disposed, as summarized below:
1. For discharge to surface waters of the United States, including indirectly through storm sewers, ditches, or canals, the Contractor shall contact the Idaho Pollutant Discharge Elimination System (IPDES) Compliance Supervisor for the IDEQ Twin Falls Region to determine if an IPDES discharge permit is required. Typically, any discharge to surface waters must at a minimum comply with the following requirements of the State of Idaho Water Quality Standards (IDAPA 58.01.02):
    - a. The maximum instantaneous or 1-hour average concentration of the total chlorine residual of the discharge must not exceed 19 µg/L more than once every three years. This is the acute criteria for chlorine.
    - b. The 4-day average concentration of the total chlorine residual of the discharge must not exceed 11 µg/L more than once every three years. This is the chronic criteria for chlorine.
    - c. Dechlorination of chloramines can create ammonia. The 1-hour average concentration of total ammonia (mg/L N) must not exceed the acute criteria value more than once every three years. The acute criteria value is dependent upon temperature and pH and is calculated using the applicable equation in §250.02.d.i of the State of Idaho Water Quality Standards. The 30-day average concentration of total ammonia (mg/L N) must not exceed the chronic criteria value more than once every three years. The chronic criteria value is dependent upon temperature and pH and is calculated using the applicable equation in §250.02.d.ii of the State of Idaho Water Quality Standards.
    - d. IDEQ may consider the effects of the mixing zone where the discharge enters the receiving body when evaluating allowable concentrations of total residual chlorine.
- 12.5 For discharge to sanitary sewer, the Contractor shall consult with the City and request approval to discharge into the sewer. The Contractor must verify with the sewer department that there is adequate capacity in the sewer mains to accommodate the discharge and that the wastewater treatment plant can accept the discharge.
- 12.6 For land application of the chlorinated water, the Contractor must receive approval from the landowner to discharge the water. The Contractor shall also contact the IDEQ Twin Falls Regional Office Engineering Manager to confirm any permitting requirements.
- 12.7 If required by federal, state, or local agencies, the Contractor shall dechlorinate chlorinated water before disposal using a chlorine-neutralizing agent. The Contractor shall refer to AWWA C655 as a guide for the amount of neutralizing agent required. The Contractor shall consult with the appropriate jurisdictional body on maximum allowable concentrations of de-chlorination chemicals prior to discharge.

## **13. FINAL CLEANUP**

- 13.1 After completion of all Work associated with this contract, the Contractor shall clean up the Work site and any property used by his operations to the satisfaction of the Engineer and Owner. The Contractor shall remove and dispose of all excess materials resulting from his work, and shall repair, replace, or restore all property of any type or nature which has been moved, damaged, or altered in any way by his operations, to the satisfaction of the Engineer and Owner. The Contractor shall return all landscape, roadway, and adjoining surfaces to their original condition and appearance as soon as reasonably feasible.

## **PART 4 - MEASUREMENT AND PAYMENT**

### **1. SCOPE**

- 1.1 The quantities of work or material stated in unit price items of the Bid are supplied only to give an indication of the general scope of the Work; the Engineer does not expressly or by implication agree that the actual amount of work or material will correspond therewith, and reserves the right after award to increase or decrease the quantity of any unit price item of the Work without a change in the unit price, and shall include the right to delete any Bid item in its entirety. Payment for materials and labor will be based on actual quantities furnished, installed, or constructed in accordance with the prices bid for unit price items.
- 1.2 The Engineer may terminate Work on the project at any point if, in the Engineer's judgment, the Engineer's or Owner's best interests are not served by continuation. Conditions which may lead to project termination include, but are not limited to, indications of low groundwater development potential as determined during drilling, geophysical logging, and testing. In such an event, the Contractor shall be paid for the value of Work completed at that time on the basis of the unit price and lump sum items listed on the Bid Schedule. In addition, if well construction is terminated by decision of the Engineer, the Contractor may be required to properly abandon the well. Well abandonment procedures in excess of those explicitly required in these specifications must comply with current Idaho State regulations. Materials used in abandonment shall be paid at invoice cost plus 10 percent to cover handling. Payment for rig time shall be at the bid unit price.
- 1.3 No payment shall be made for tests of borehole plumbness and alignment; it shall be the responsibility of the Contractor to ensure that the hole remains within plumbness and alignment specifications.
- 1.4 No payment shall be made for drilling fluid materials used during normal drilling operations. All such costs shall be considered to be included in the unit prices listed on the Bid Schedule.
- 1.5 No payment shall be made for time or expenses incurred in the recovery or replacement of tools or equipment lost during the drilling phase or any other phase of the Work.
- 1.6 No payment shall be made for time, materials, or labor costs incurred during remedial measures or operations in the event the well is of unacceptable plumbness or alignment.
- 1.7 No payment shall be made for time, materials, or labor costs incurred in abandoning the well in the event the well is of unacceptable plumbness or alignment following remedial measures, or if lost tools or equipment cannot be recovered from the borehole. The costs incurred for construction of the abandoned well shall be applied to construction of a replacement well.

### **2. MOBILIZATION/DEMOBILIZATION (ITEM 1; LUMP SUM ITEM)**

- 2.1 Measurement and payment for mobilization/demobilization to and from the work site will be based upon completion of the Work as a lump sum unit. The lump sum price listed on the Bid

Schedule shall be full compensation for the moving in of rigs, pumps, equipment, power, labor, fuel, tools, and incidentals necessary to do the Work, and moving out of all such equipment, materials, tools, and incidentals, and well disinfection and final site cleanup upon completion of the Work. For purposes of partial payment, the mobilization portion of this bid item shall be considered as 60% of the total lump sum. Costs of obtaining the drilling permit and the video inspection of the well shall be included in this item.

- 3. INSTALLATION/REMOVAL OF TEMPORARY 24-INCH WELL CASING (ITEM 2; PRICES BASED ON LINEAR MEASUREMENT)**
  - 3.1 Measurement and payment for drilling of the borehole and installation of the 24-inch casing will be based upon the number of vertical linear footage drilled below ground surface in accordance with these Contract Documents. Payment for drilling shall constitute full compensation for labor, fuel, bits, pipe, drive shoes, welding, drilling fluids, equipment, and incidentals necessary to drill the borehole, install the 24-inch pipe, and remove the 24-inch pipe during the installation of the surface seal.
- 4. ADVANCE BORE AND INSTALLATION/REMOVAL OF LOWER TEMPORARY CASING(S) (ITEM 3; PRICES BASED ON LINEAR MEASUREMENT)**
  - 4.1 Measurement and payment for drilling of the borehole and installation/removal of the lower temporary casing(s) to allow installation of the 16-inch casing and screens will be based upon the number of vertical linear footage drilled below the sealed portion of the 24-inch casing in accordance with these Contract Documents. Payment for drilling shall constitute full compensation for labor, fuel, bits, pipe, drive shoes, welding, drilling fluids, equipment, and incidentals necessary to drill the borehole and install/remove the temporary casing(s).
- 5. FURNISH 16-INCH WELL CASING (ITEM 4; PRICES BASED ON LINEAR MEASUREMENT)**
  - 5.1 Measurement and payment for the nominal 16-inch stainless steel well casing will be based upon the number of linear feet requested to be purchased by the Engineer in accordance with these Contract Documents. Payment for the 16-inch casing shall constitute full compensation for transportation, labor, fuel, equipment, and incidentals necessary to furnish the well casing.
- 6. INSTALL 16-INCH WELL CASING (ITEM 5; PRICES BASED ON LINEAR MEASUREMENT)**
  - 6.1 Measurement and payment for the nominal 16-inch stainless steel well casing will be based upon the number of linear feet of such pipe installed in the borehole in accordance with these Contract Documents. Payment for the 16-inch casing shall constitute full compensation for materials, transportation, labor, fuel, equipment, centralizers, welding materials, and incidentals necessary to install the well casing.
- 7. FURNISH 16-INCH WELL SCREEN (ITEM 6; PRICES BASED ON LINEAR MEASUREMENT)**
  - 7.1 Measurement and payment for furnishing the well screen will be based on the number of linear feet requested to be purchased by the Engineer in accordance with these Contract Documents. Payment for the well screen shall constitute full compensation for screen, weld rings, plate bottom, materials, transportation, labor, equipment, and incidentals necessary to furnish the well screen.
- 8. INSTALL 16-INCH WELL SCREEN (ITEM 7; PRICES BASED ON LINEAR MEASUREMENT)**
  - 8.1 Measurement and payment for the nominal 16-inch stainless steel well screen will be based upon the number of linear feet of such screen installed in the borehole in accordance with these Contract Documents. Payment for the 16-inch screen shall constitute full compensation for materials, transportation, labor, fuel, equipment, centralizers, welding materials, and incidentals necessary to install the well screen.



**9. FURNISH AND INSTALL ANNULAR WELL SEAL (ITEM 8; PRICES BASED ON VOLUME MEASUREMENT)**

9.1 Measurement and payment for furnishing and installing the well seal will be based upon cubic feet of well seal installed in the borehole. Payment for the well seal shall constitute full compensation for bentonite, materials, transportation, labor, equipment, and incidentals necessary to furnish and install the seal. Including additional time needed while removing temporary casing.

**10. WELL DEVELOPMENT (ITEM 9; PRICES BASED UPON TIME, HOURS)**

10.1 Measurement and payment for well development will be based on the actual number of hours of development operations. Payment will be made at the unit price listed in the Bid Schedule.

10.2 No payment shall be made for equipment acquisition, set-up, or installation, or for recovery periods required by the Engineer to ensure thorough well development.

10.3 Payment for chemicals as may be required by the Engineer to ensure thorough well development shall be reimbursed for the cost of the chemicals actually used at invoice cost plus 10 percent for handling.

**11. FURNISH, INSTALL, AND REMOVE TEST PUMP AND RELATED EQUIPMENT (ITEM 10; PRICE BASED ON LUMP SUM)**

11.1 Measurement and payment for furnishing, installing, and removing the test pump and related equipment will be based upon completion of the entire Work as a lump sum unit, all in accordance with the requirements of these Contract Documents. Payment for furnishing, installing, and removing will be at the price listed in the Bid Schedule, which price shall constitute full compensation for all work, including installation and removal of pump, motor, generator, cable, controls, valves, orifices, temporary piping, and associated appurtenances.

**12. TEST PUMPING (ITEM 11; PRICES BASED UPON TIME, HOURS)**

12.1 Measurement and payment for test pumping will be based on the actual number of hours of pumping operations. Payment for test pumping will be made at the unit price listed in the Bid Schedule, and shall constitute full compensation for all labor, fuel, equipment, and materials associated with operating the test pumping equipment.

12.2 No payment shall be made for standby time during the recovery periods between tests or for time spent transporting or maintaining equipment. All such costs for time and maintenance materials shall be included in the unit price listed in the Bid Schedule.

12.3 No payment shall be made for time, equipment, or materials used in a test aborted due to power failure or malfunction of pumping equipment.

**13. RIG TIME (ITEM 12; PRICES BASED UPON TIME, HOURS)**

13.1 Measurement and payment for rig time will be based on the unit price listed on the Bid Schedule. Payment for rig time for additional work specifically directed by the Engineer not otherwise covered in these Contract Documents will be based on the actual number of hours of work done and shall be full compensation for rig, fuel, labor, equipment, and materials normally associated with Contractor's drilling activities. Additional materials, which may be required by the Engineer, shall be paid at the Contractor's invoice cost plus 10 percent for handling.

**14. PLUGGING AND ABANDONMENT**

14.1 In the event a well, successfully completed in accordance with these Contract Documents, requires plugging and abandonment, the cost for this work will either be negotiated with the Contractor or performed by others. The costs for plugging and abandonment of the well

successfully completed in accordance with these Contract Documents shall not be considered as subsidiary to other bid items in the contract.

**15. DRILL 6-INCH TEST BORE (ITEM BO1; PRICES BASED ON LINEAR MEASUREMENT)**

15.1 Measurement and payment for drilling the test borehole will be based upon the number of vertical linear footage drilled below ground surface in accordance with these Contract Documents. Payment for drilling shall constitute full compensation for labor, fuel, bits, pipe, well casing, drive shoes, welding, drilling fluids, equipment, and incidentals necessary to drill the exploration borehole.

15.2 Additional mobilization and demobilization of equipment used for drilling test bore shall be included in this price.

**16. FURNISH, INSTALL/REMOVE 22-INCH WELL CASING (ITEM BO2; PRICES BASED ON LINEAR MEASUREMENT)**

16.1 Measurement and payment for drilling of the borehole and installation of the 22-inch casing will be based upon the number of vertical linear footage drilled below ground surface in accordance with these Contract Documents. Payment for drilling shall constitute full compensation for labor, fuel, bits, pipe, drive shoes, welding, drilling fluids, equipment, and incidentals necessary to drill the borehole, install the 22-inch pipe, and remove the 22-inch pipe.

**17. FURNISH, INSTALL/REMOVE 20-INCH WELL CASING (ITEM BO3; PRICES BASED ON LINEAR MEASUREMENT)**

17.1 Measurement and payment for drilling of the borehole and installation of the 20-inch casing will be based upon the number of vertical linear footage drilled below ground surface in accordance with these Contract Documents. Payment for drilling shall constitute full compensation for labor, fuel, bits, pipe, drive shoes, welding, drilling fluids, equipment, and incidentals necessary to drill the borehole, install the 20-inch pipe, and remove the 20-inch pipe.

**18. FURNISH, INSTALL/REMOVE 18-INCH WELL CASING (ITEM BO4; PRICES BASED ON LINEAR MEASUREMENT)**

18.1 Measurement and payment for drilling of the borehole and installation of the 18-inch casing will be based upon the number of vertical linear footage drilled below ground surface in accordance with these Contract Documents. Payment for drilling shall constitute full compensation for labor, fuel, bits, pipe, drive shoes, welding, drilling fluids, equipment, and incidentals necessary to drill the borehole, install the 18-inch pipe, and remove the 18-inch pipe.

**19. FURNISH AND INSTALL GRAVEL FILTER PACK (ITEM BO5; PRICES BASED ON CUBIC FEET)**

19.1 Measurement and payment for furnishing and installing the gravel filter pack will be based on the cubic feet of filter pack actually installed in the well in accordance with these Contract Documents. Payment for filter pack shall constitute full compensations for materials, transportation, labor, equipment, and incidentals necessary to furnish and install the filter pack.

**20. FURNISH AND INSTALL SILICA SAND FILTER PACK (ITEM BO6; PRICES BASED ON CUBIC FEET)**

20.1 Measurement and payment for furnishing and installing the sand filter pack will be based on the cubic feet of filter pack actually installed in the well in accordance with these Contract Documents. Payment for filter pack shall constitute full compensations for materials, transportation, labor, equipment, and incidentals necessary to furnish and install the filter pack.

**21. FURNISH, INSTALL/REMOVE 30-INCH WELL CASING (ITEM B07; PRICES BASED ON LINEAR MEASUREMENT)**

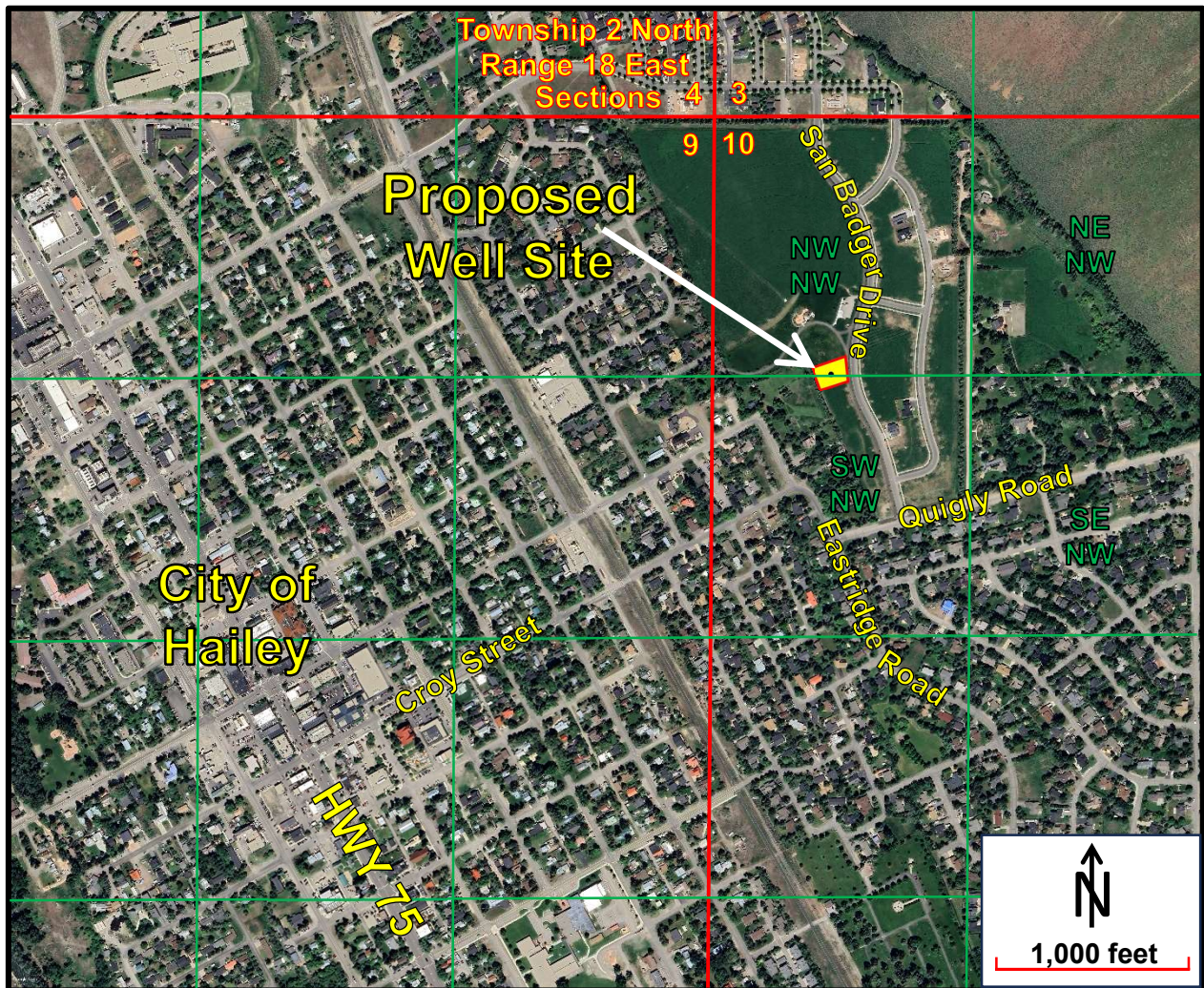
21.1 Measurement and payment for drilling of the borehole and installation of the 18-inch casing will be based upon the number of vertical linear footage drilled below ground surface in accordance with these Contract Documents. Payment for drilling shall constitute full compensation for labor, fuel, bits, pipe, drive shoes, welding, drilling fluids, equipment, and incidentals necessary to drill the borehole, install the 30-inch pipe, and remove the 30-inch pipe.

**22. FURNISH AND INSTALL 24-INCH WELL CASING (ITEM B08; PRICES BASED ON LINEAR MEASUREMENT)**

22.1 Measurement for payment for the nominal 24-inch well casing will be based upon the number of linear feet of such pipe installed in the borehole in accordance with these Contract Documents. Payment for the 24-inch casing shall constitute full compensation for materials, transportation, labor, fuel, equipment, centralizers, welding materials, and incidentals necessary to furnish and install the well casing.

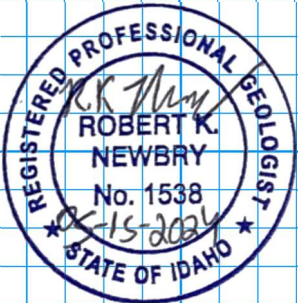
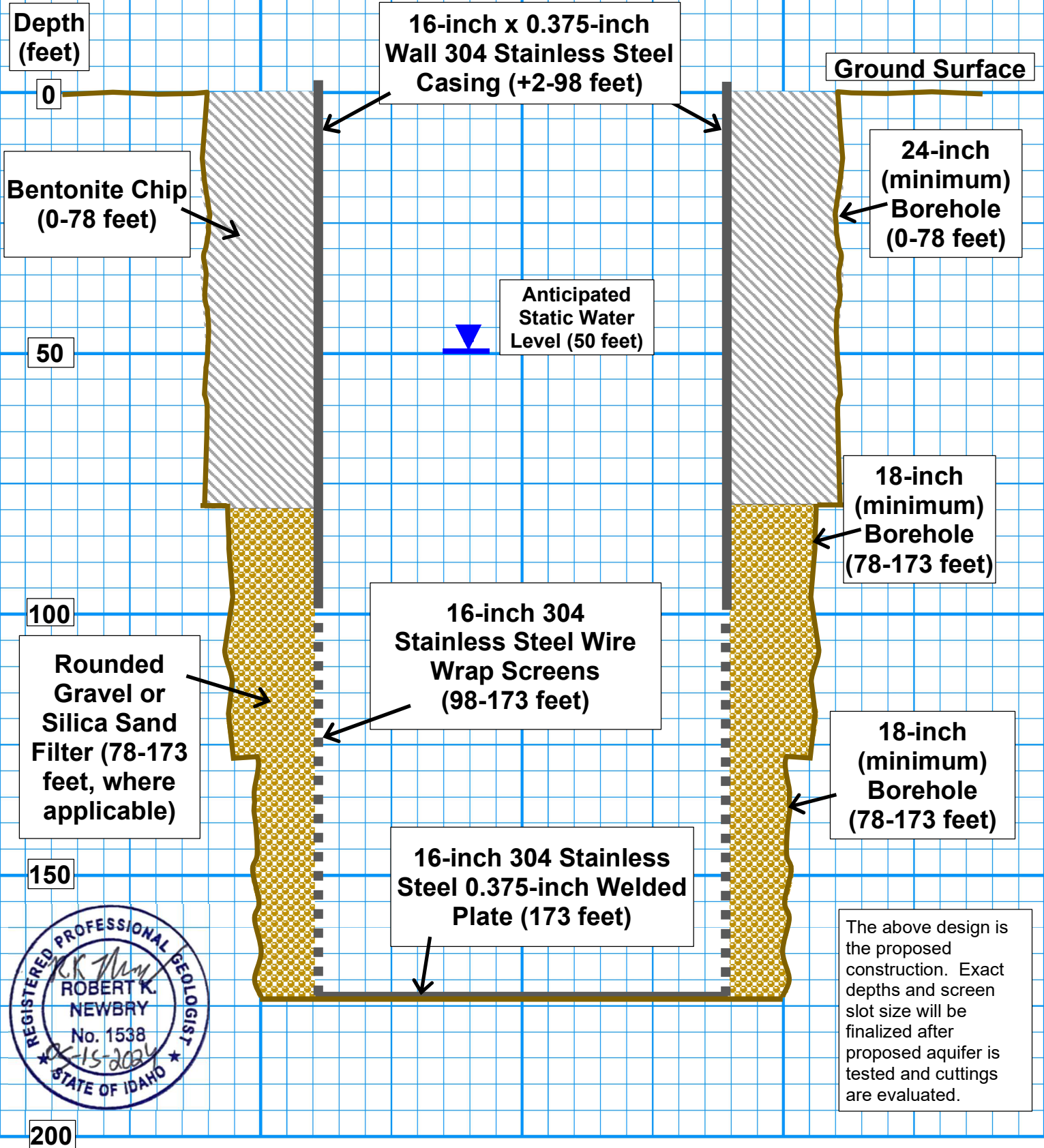
**- END OF TECHNICAL SPECIFICATIONS -**

**City of Hailey**  
**Proposed Sunbeam**  
**Public Drinking Water System Well**  
**Project Location Map**

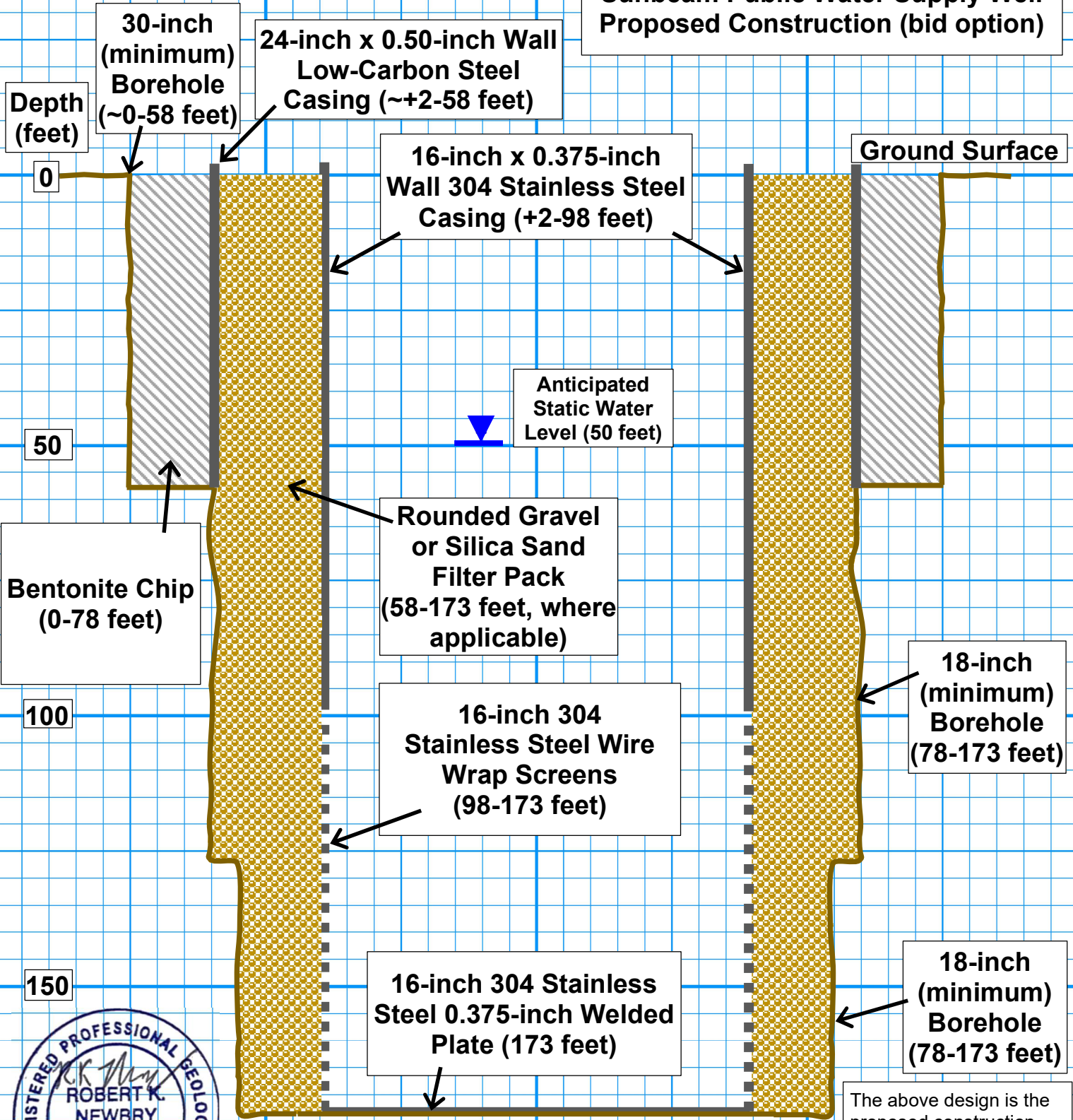




**City of Hailey  
Sunbeam Public Water Supply Well  
Proposed Construction**



**City of Hailey  
Sunbeam Public Water Supply Well  
Proposed Construction (bid option)**



**Bentonite Chip  
(0-78 feet)**

**Depth  
(feet)**

**0**

**50**

**100**

**150**

**200**

**Ground Surface**

**Anticipated  
Static Water  
Level (50 feet)**

**Rounded Gravel  
or Silica Sand  
Filter Pack  
(58-173 feet, where  
applicable)**

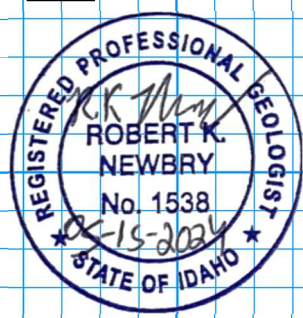
**16-inch 304  
Stainless Steel Wire  
Wrap Screens  
(98-173 feet)**

**16-inch 304 Stainless  
Steel 0.375-inch Welded  
Plate (173 feet)**

**18-inch  
(minimum)  
Borehole  
(78-173 feet)**

**18-inch  
(minimum)  
Borehole  
(78-173 feet)**

The above design is the proposed construction. Exact depths and screen slot size will be finalized after proposed aquifer is tested and cuttings are evaluated.



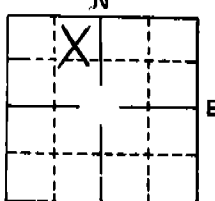
STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR  
BALLPOINT PEN

# WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources  
within 30 days after the completion or abandonment of the well.



<p><b>1. WELL OWNER</b></p> <p>Name <u>Leslie Conner</u></p> <p>Address <u>Box 1623-Hailey, ID 83333</u></p> <p>Owner's Permit No. <u>37-W-89-001</u></p>	<p><b>7. WATER LEVEL</b></p> <p>Static water level <u>50</u> feet below land surface.</p> <p>Flowing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No G.P.M. flow _____</p> <p>Artesian closed-in pressure _____ p.s.i.</p> <p>Controlled by: <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug</p> <p>Temperature ____ °F. Quality <u>good</u></p> <p><i>Describe artesian or temperature zones below.</i></p>																																								
<p><b>2. NATURE OF WORK</b></p> <p><input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement</p> <p><input type="checkbox"/> Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)</p>	<p><b>8. WELL TEST DATA</b></p> <p><input type="checkbox"/> Pump <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Air <input type="checkbox"/> Other _____</p> <table border="1"> <thead> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>76</td> <td>1</td> </tr> </tbody> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped	100	76	1																																		
Discharge G.P.M.	Pumping Level	Hours Pumped																																							
100	76	1																																							
<p><b>3. PROPOSED USE</b></p> <p><input checked="" type="checkbox"/> Domestic <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Test <input type="checkbox"/> Municipal</p> <p><input type="checkbox"/> Industrial <input type="checkbox"/> Stock <input type="checkbox"/> Waste Disposal or Injection</p> <p><input type="checkbox"/> Other _____ (specify type)</p>	<p><b>9. LITHOLOGIC LOG</b> <span style="float: right;">78856</span></p> <table border="1"> <thead> <tr> <th rowspan="2">Bore Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th colspan="2">Water</th> </tr> <tr> <th>From</th> <th>To</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0</td> <td>10</td> <td>Top soil</td> <td></td> <td>X</td> </tr> <tr> <td>10</td> <td>10</td> <td>20</td> <td>Gravel set in clay</td> <td></td> <td>X</td> </tr> <tr> <td>8</td> <td>20</td> <td>65</td> <td>" " " " " " " "</td> <td></td> <td>X</td> </tr> <tr> <td>8</td> <td>65</td> <td>75</td> <td>Clay</td> <td></td> <td>X</td> </tr> <tr> <td>8</td> <td>75</td> <td>85</td> <td>Gravel and water</td> <td>X</td> <td></td> </tr> </tbody> </table> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 150px; text-align: center;"> <p>JUN 2 1989</p> <p>Department of Water Resources</p> </div> <div style="text-align: center; margin-top: 20px;"> <p><b>RECEIVED</b></p> <p>JUN 15 1989</p> <p>Department of Water Resources Southern Region Office</p> </div>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	10	0	10	Top soil		X	10	10	20	Gravel set in clay		X	8	20	65	" " " " " " " "		X	8	65	75	Clay		X	8	75	85	Gravel and water	X	
Bore Diam.	Depth		Material	Water																																					
	From	To		Yes	No																																				
10	0	10	Top soil		X																																				
10	10	20	Gravel set in clay		X																																				
8	20	65	" " " " " " " "		X																																				
8	65	75	Clay		X																																				
8	75	85	Gravel and water	X																																					
<p><b>4. METHOD DRILLED</b></p> <p><input checked="" type="checkbox"/> Rotary <input checked="" type="checkbox"/> Air <input type="checkbox"/> Hydraulic <input type="checkbox"/> Reverse rotary</p> <p><input type="checkbox"/> Cable <input type="checkbox"/> Dug <input type="checkbox"/> Other _____</p> <p><b>5. WELL CONSTRUCTION</b></p> <p>Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____</p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>.250 inches</td> <td>8 inches</td> <td>+ 1 feet</td> <td>85 feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </tbody> </table> <p>Was casing drive shoe used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Was a packer or seal used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Perforated? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>How perforated? <input type="checkbox"/> Factory <input type="checkbox"/> Knife <input type="checkbox"/> Torch</p> <p>Size of perforation _____ inches by _____ inches</p> <table border="1"> <thead> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </tbody> </table> <p>Well screen installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Manufacturer's name _____</p> <p>Type _____ Model No. _____</p> <p>Diameter _____ Slot size _____ Set from _____ feet to _____ feet</p> <p>Diameter _____ Slot size _____ Set from _____ feet to _____ feet</p> <p>Gravel packed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Size of gravel _____</p> <p>Placed from _____ feet to _____ feet</p> <p>Surface seal depth <u>20</u> Material used in seal: <input type="checkbox"/> Cement grout</p> <p><input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Puddling clay <input type="checkbox"/> _____</p> <p>Sealing procedure used: <input type="checkbox"/> Slurry pit <input type="checkbox"/> Temp. surface casing</p> <p><input checked="" type="checkbox"/> Overbore to seal depth</p> <p>Method of joining casing: <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Solvent Weld</p> <p><input type="checkbox"/> Cemented between strata</p> <p>Describe access port _____</p>	Thickness	Diameter	From	To	.250 inches	8 inches	+ 1 feet	85 feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	<p><b>10.</b> Work started <u>May 29, 89</u> finished <u>May 29, 89</u></p> <p><b>11. DRILLERS CERTIFICATION</b></p> <p>I/We certify that all minimum well construction standards were complied with at the time the rig was removed.</p> <p><b>WOOD RIVER DRILLING AND PUMP</b></p> <p>Box No. <u>1155</u> Phone No. <u>788-3163</u> Firm No. <u>265</u></p> <p>Address <u>HAILEY, IDAHO 83333</u> Date <u>6-7-89</u></p> <p>Signed by (Firm Official) <u>Ken Smith</u></p> <p>and (Operator) <u>Gay Jones</u></p>								
Thickness	Diameter	From	To																																						
.250 inches	8 inches	+ 1 feet	85 feet																																						
_____ inches	_____ inches	_____ feet	_____ feet																																						
_____ inches	_____ inches	_____ feet	_____ feet																																						
_____ inches	_____ inches	_____ feet	_____ feet																																						
Number	From	To																																							
_____ perforations	_____ feet	_____ feet																																							
_____ perforations	_____ feet	_____ feet																																							
_____ perforations	_____ feet	_____ feet																																							
<p><b>6. LOCATION OF WELL</b></p> <p>Sketch map location <u>must</u> agree with written location.</p>  <p>Subdivision Name <u>MARVIA GARDENS</u></p> <p>Lot No. <u>9</u> Block No. _____</p> <p>County <u>BLAINE</u></p> <p><u>NE</u> ¼ <u>NW</u> ¼ Sec. <u>10</u>, T. <u>20</u> N/S, R. <u>18</u> E/W.</p>																																									

# WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

### 1. WELL OWNER

Name John & Alma Mills  
Address P.O. Box 831 Ketchum ID 83340  
Owner's Permit No. 37-91-S-056-980

### 7. WATER LEVEL

Static water level 53' feet below land surface.  
Flowing?  Yes  No G.P.M. flow \_\_\_\_\_  
Artesian closed-in pressure \_\_\_\_\_ p.s.i.  
Controlled by:  Valve  Cap  Plug  
Temperature \_\_\_\_\_ °F. Quality Good  
*Describe artesian or temperature zones below.*

### 2. NATURE OF WORK

New well  Deepened  Replacement  
 Well diameter increase  
 Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

### 8. WELL TEST DATA

Pump  Bailer  Air  Other \_\_\_\_\_

Discharge G.P.M.	Pumping Level	Hours Pumped
<u>35</u>	<u>75</u>	<u>2</u>

### 3. PROPOSED USE

Domestic  Irrigation  Test  Municipal  
 Industrial  Stock  Waste Disposal or Injection  
 Other \_\_\_\_\_ (specify type)

### 9. LITHOLOGIC LOG

Bore Diam.	Depth		Material	Water	
	From	To		Yes	No
<u>6</u>	<u>0</u>	<u>1</u>	<u>TOP SURF</u>		<input checked="" type="checkbox"/>
	<u>1</u>	<u>4</u>	<u>Dirt - clay</u>		<input checked="" type="checkbox"/>
	<u>4</u>	<u>15</u>	<u>Dirt - clay - gravel</u>		<input checked="" type="checkbox"/>
	<u>15</u>	<u>21</u>	<u>Clay - gravel</u>		<input checked="" type="checkbox"/>
	<u>21</u>	<u>27</u>	<u>Cemented gravel</u>		<input checked="" type="checkbox"/>
	<u>27</u>	<u>50</u>	<u>SAND &amp; gravel</u>		<input checked="" type="checkbox"/>
	<u>50</u>	<u>57</u>	<u>SAND &amp; gravel</u>		<input checked="" type="checkbox"/>
	<u>57</u>	<u>61</u>	<u>Red clay - sand stone</u>		<input checked="" type="checkbox"/>
	<u>61</u>	<u>75</u>	<u>gravel &amp; sand</u>		<input checked="" type="checkbox"/>
	<u>75</u>	<u>85</u>	<u>gravel &amp; sand</u>		<input checked="" type="checkbox"/>
	<u>85</u>	<u>90</u>	<u>" "</u>		<input checked="" type="checkbox"/>

### 4. METHOD DRILLED

Rotary  Air  Hydraulic  Reverse rotary  
 Cable  Dug  Other \_\_\_\_\_

### 5. WELL CONSTRUCTION

Casing schedule:  Steel  Concrete  Other \_\_\_\_\_

Thickness	Diameter	From	To
<u>.250</u> inches	<u>6</u> inches	<u>1</u> feet	<u>80</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used?  Yes  No  
Was a packer or seal used?  Yes  No  
Perforated?  Yes  No  
How perforated?  Factory  Knife  Torch  Gun  
Size of perforation \_\_\_\_\_ inches by \_\_\_\_\_ inches  
Number \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
\_\_\_\_\_ perforations \_\_\_\_\_ feet \_\_\_\_\_ feet  
\_\_\_\_\_ perforations \_\_\_\_\_ feet \_\_\_\_\_ feet  
\_\_\_\_\_ perforations \_\_\_\_\_ feet \_\_\_\_\_ feet

Well screen installed?  Yes  No  
Manufacturer's name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diameter \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Diameter \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Gravel packed?  Yes  No  Size of gravel \_\_\_\_\_  
Placed from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Surface seal depth 20 Material used in seal:  Cement grout  
 Bentonite  Puddling clay  \_\_\_\_\_  
Sealing procedure used:  Slurry pit  Temp. surface casing  
 Overbore to seal depth  
Method of joining casing:  Threaded  Welded  Solvent Weld  
 Cemented between strata  
Describe access port SANITARY WELL CAP

RECEIVED

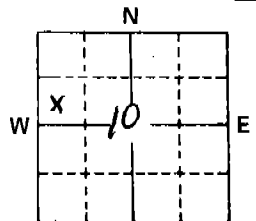
APR 16 1991

Department of Water Resources  
Southern Region Office

10. Work started 4-11-91 finished 4-11-91

### 6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name Marvin Gardens  
Lot No. 7 Block No. 1

County Blaine  
SW 1/4 NW 1/4 Sec. 10, T. 8 N  S  R. 18 E  W

### 11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

*Scott Drilling & Pump*  
Firm Name P.O. Box 831 Firm No. 327  
Address Ketchum, Idaho 83333 Date 4-11-91  
(208) 788-5079  
Signed by (Firm Official) J. Scott  
and  
(Operator) John Mills



STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**WELL DRILLER'S REPORT**

USE TYPEWRITER OR BALLPOINT PEN  
**RECEIVED**  
JUL 6 1981  
Department of Water Resources  
Southern District Office

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER  
Name Jim Phillips  
Address Hailey Idaho  
Owner's Permit No. \_\_\_\_\_

7. WATER LEVEL  
Static water level 35 feet below land surface  
Flowing?  Yes  No G.P.M. flow \_\_\_\_\_  
Artesian closed-in pressure \_\_\_\_\_ p.s.i.  
Controlled by:  Valve  Cap  Plug  
Temperature \_\_\_\_\_ °F. Quality \_\_\_\_\_

2. NATURE OF WORK  
 New well  Deepened  Replacement  
 Abandoned (describe method of abandoning) \_\_\_\_\_

8. WELL TEST DATA  
 Pump  Bailer  Air  Other \_\_\_\_\_

Discharge G.P.M.	Pumping Level	Hours Pumped
<u>24</u>	<u>45</u>	<u>2</u>

3. PROPOSED USE  
 Domestic  Irrigation  Test  Municipal  
 Industrial  Stock  Waste Disposal or Injection  
 Other \_\_\_\_\_ (specify type)

9. LITHOLOGIC LOG **86570**

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
<u>8</u>	<u>0</u>	<u>4</u>	<u>Top soil &amp; clay</u>		<input checked="" type="checkbox"/>
<u>6</u>	<u>4</u>	<u>38</u>	<u>Brown clay &amp; gravel</u>		<input checked="" type="checkbox"/>
<u>6</u>	<u>38</u>	<u>55</u>	<u>Tan clay &amp; gravel</u>		<input checked="" type="checkbox"/>
<u>6</u>	<u>55</u>	<u>77</u>	<u>Gravel &amp; sand</u>	<input checked="" type="checkbox"/>	

**RECEIVED**  
JUL 9 1981  
Department of Water Resources  
*cb dl*

4. METHOD DRILLED  
 Rotary  Air  Hydraulic  Reverse rotary  
 Cable  Dug  Other \_\_\_\_\_

5. WELL CONSTRUCTION  
Casing schedule:  Steel  Concrete  Other \_\_\_\_\_

Thickness	Diameter	From	To
<u>.250</u> inches	<u>6</u> inches	<u>1</u> feet	<u>77</u> feet

Was casing drive shoe used?  Yes  No  
Was a packer or seal used?  Yes  No  
Perforated?  Yes  No  
How perforated?  Factory  Knife  Torch  
Size of perforation \_\_\_\_\_ inches by \_\_\_\_\_ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed?  Yes  No  
Manufacturer's name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diameter \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Diameter \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Gravel packed?  Yes  No  Size of gravel \_\_\_\_\_  
Placed from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Surface seal depth 18 Material used in seal:  Cement grout  Puddling clay  Well cuttings  
Sealing procedure used:  Slurry pit  Temp. surface casing  Overbore to seal depth  
Method of joining casing:  Threaded  Welded  Solvent Weld  
 Cemented between strata

Describe access port

10. June 17, 1981 June 18, 1981  
Work started \_\_\_\_\_ finished \_\_\_\_\_

6. LOCATION OF WELL  
Sketch map location must agree with written location.

	Subdivision Name _____
	Lot No. _____ Block No. _____
	County <u>Blaine</u>

SW 1/4 NW 1/4 Sec. 10, T. 20N, R. 18W.

11. DRILLERS CERTIFICATION  
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Ken Smith Well Drilling 265  
Firm Name \_\_\_\_\_ Firm No. \_\_\_\_\_  
Box 1165 Hailey Idaho June 30, 1981  
Address \_\_\_\_\_ Date \_\_\_\_\_  
Signed by (Firm Official) Ken Smith  
and  
(Operator) \_\_\_\_\_

# WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

**RECEIVED**  
JUN 28 1982  
Department of Water Resources  
SOLICITOR General  
District Office

**1. WELL OWNER**

Name Howard Knight

Address Hailey Ida

Owner's Permit No. \_\_\_\_\_

**7. WATER LEVEL**

Static water level 33 feet below land surface

Flowing?  Yes  No G.P.M. flow \_\_\_\_\_

Artesian closed-in pressure \_\_\_\_\_ p.s.i.

Controlled by:  Valve  Cap  Plug

Temperature \_\_\_\_\_ °F. Quality \_\_\_\_\_

**2. NATURE OF WORK**

New well  Deepened  Replacement

Abandoned (describe method of abandoning) \_\_\_\_\_

**8. WELL TEST DATA**

Pump  Bailer  Air  Other \_\_\_\_\_

Discharge G.P.M.	Pumping Level	Hours Pumped
<u>36</u>	<u>37</u>	<u>2</u>

**3. PROPOSED USE**

Domestic  Irrigation  Test  Municipal

Industrial  Stock  Waste Disposal or Injection

Other \_\_\_\_\_ (specify type)

**9. LITHOLOGIC LOG** **079390**

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
6	0	3	Top Soil		X
6	3	16	Brown clay		X
6	16	54	gravel set in clay		X
6	54	85	gravel & sand	X	
6	85	90	large river gravel	X	

**4. METHOD DRILLED**

Rotary  Air  Hydraulic  Reverse rotary

Cable  Dug  Other \_\_\_\_\_

**5. WELL CONSTRUCTION**

Casing schedule:  Steel  Concrete  Other \_\_\_\_\_

Thickness	Diameter	From	To
<u>.250</u> inches	<u>6</u> inches	<u>1</u> feet	<u>90</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used?  Yes  No

Was a packer or seal used?  Yes  No

Perforated?  Yes  No

How perforated?  Factory  Knife  Torch

Size of perforation \_\_\_\_\_ inches by \_\_\_\_\_ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed?  Yes  No

Manufacturer's name \_\_\_\_\_

Type \_\_\_\_\_ Model No. \_\_\_\_\_

Diameter \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Diameter \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Gravel packed?  Yes  No  Size of gravel \_\_\_\_\_

Placed from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Surface seal depth 18 Material used in seal:  Cement grout  Puddling clay  Well cuttings

Sealing procedure used:  Slurry pit  Temp. surface casing  Overbore to seal depth

Method of joining casing:  Threaded  Welded  Solvent Weld

Cemented between strata

Describe access port \_\_\_\_\_

**10.** Work started Mar. 15-82 finished Mar 28-82

**11. DRILLERS CERTIFICATION** ll

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Ken Smith Well Drilling Firm No. 265

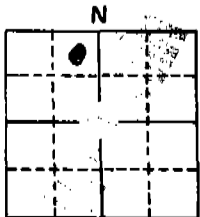
Address Box 165 Hailey Ida Date April 24-82

Signed by (Firm Official) Ken Smith

and \_\_\_\_\_ (Operator)

**6. LOCATION OF WELL**

Sketch map location must agree with written location.



Subdivision Name \_\_\_\_\_

Lot No. \_\_\_\_\_ Block No. \_\_\_\_\_

County Blaine

NE 1/4 NW 1/4 Sec. 10, T. 20S, R. 18W.

**RECEIVED**  
JUL 6 1982  
Department of Water Resources

App 844168  
Per 768914

JP 340907

768914

IDAHO DEPARTMENT OF WATER RESOURCES  
**WELL DRILLER'S REPORT**

Office Use Only  
Inspected by \_\_\_\_\_  
Twp \_\_\_\_\_ Rge \_\_\_\_\_ Sec \_\_\_\_\_  
\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4  
Lat: : : Long: : :

1. WELL TAG NO. D0016351  
DRILLING PERMIT NO. 37-02713 - 37-073  
Other IDWR No. 340907

2. OWNER:  
Name FLYING HAT RANCH  
Address c/o BROCKWAY ENGINEERING  
City 2016 N. WASHINGTON ST SUITE 4  
TWIN FALLS IDAHO 83301

3. LOCATION OF WELL by legal description:  
Sketch map location must agree with written location.

Twp. 2 North  or South   
Rge. 18 East  or West   
Sec. 23 1/4 NE 1/4 SW 1/4  
Gov't Lot \_\_\_\_\_ County BLAIN  
Lat: : : Long: : :  
Address of Well Site 200 west of hwy  
75 at ranch house pond City HAILEY ID.  
(Give at least name of road + Distance to Road or Landmark)

Lt. \_\_\_\_\_ Blk. \_\_\_\_\_ Sub. Name \_\_\_\_\_

4. USE:  
 Domestic  Municipal  Monitor  Irrigation  
 Thermal  Injection  Other \_\_\_\_\_

5. TYPE OF WORK check all that apply (Replacement etc.)  
 New Well  Modify  Abandonment  Other \_\_\_\_\_

6. DRILL METHOD  
 Air Rotary  Cable  Mud Rotary  Other \_\_\_\_\_

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
cement	19	27	10sacks	overbore
bentonite	0	19	37sacks	"

Was drive shoe used?  Y  N Shoe Depth(s) \_\_\_\_\_  
Was drive shoe seal tested?  Y  N How? bailer

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
20"	+3	137	250	steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20"	167	180	250	steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20"					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Length of Headpipe \_\_\_\_\_ Length of Tailpipe \_\_\_\_\_

9. PERFORATIONS/SCREENS  
Perforations Method factory  
Screens Screen Type low carbon hi cap acity steel screen

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
37	137	1/2"	40	20	steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
167	180	1/2"	40	20	steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
137	167	100	screen			<input checked="" type="checkbox"/>	<input type="checkbox"/>

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:  
27 ft. below ground Artesian pressure \_\_\_\_\_ lb.  
Depth flow encountered \_\_\_\_\_ ft. Describe access port or control devices: 2" pipe

11. WELL TESTS:  
 Pump  Bailor  Air  Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. \_\_\_\_\_ Bottom hole temp. \_\_\_\_\_  
Water Quality test or comments: \_\_\_\_\_  
Depth first Water Encounter \_\_\_\_\_

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
28	0	8	soil, gravel & boulders		
	8	19	gravel & cobbles		
24	19	28	silt, gravel & large gravel		
	28	41	mud & gravel		
	41	43	clean gravel		x
	43	69	sandy silt, large & small gravel		
	69	76	clay & gravel		
	76	118	sandy clay & gravel		
	118	121	small gravel		
	121	139	large gravel & some clay		
	139	166	large & small gravel & water sand some clay		
	166	178	large & small gravel & water sand		
	178	181	claystone & clay		
	181		bedrock		
			gravel packed well and pulled 24" casing from well		

RECEIVED

SEP 07 2001

Department of Water Resources  
Southern Region

Completed Depth 181 (Measurable)  
Date Started 5-25-2001 Completed 7-18-2001

13. DRILLER'S CERTIFICATION  
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.  
Company Name COUCH WELL DRILLING INC No. 161  
Firm Official [Signature] 8-10-2001  
and  
Driller or Operator [Signature]  
(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES  
**WELL DRILLER'S REPORT**

*Basin 37*

*267971*

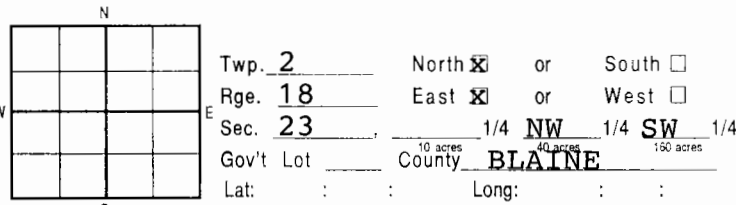
Office Use Only			
Inspected by	_____		
Twp	Rge	Sec	
_____	1/4	1/4	1/4
Lat:	:	Long:	:

1. WELL TAG NO. D 0016577  
 DRILLING PERMIT NO. 342652  
 Other IDWR No. ident no 770706

2. OWNER:  
 Name FLYING HAT RANCH c/o BROCKWAY ENGN.  
 Address 2016 N WASHINGTON ST. SUITE 4  
 City TWIN FALLS IDAHO State \_\_\_\_\_ Zip 83301

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 2 North  or South   
 Rge. 18 East  or West   
 Sec. 23 1/4 NW 1/4 SW 1/4  
 Gov't Lot \_\_\_\_\_ County BLAINE  
 Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Address of Well Site 1000' west of HWY 75 City HAILEY

(Give at least name of road + Distance to Road or Landmark)

Lt. \_\_\_\_\_ Blk. \_\_\_\_\_ Sub. Name \_\_\_\_\_

4. USE:

- Domestic  Municipal  Monitor  Irrigation  
 Thermal  Injection  Other test

5. TYPE OF WORK check all that apply (Replacement etc.)

- New Well  Modify  Abandonment  Other \_\_\_\_\_

6. DRILL METHOD

- Air Rotary  Cable  Mud Rotary  Other \_\_\_\_\_

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
<u>cement</u>	<u>22</u>	<u>27</u>	<u>12sacks</u>	<u>overbore</u>	
<u>bentonite</u>	<u>0</u>	<u>22</u>	<u>44sacks</u>	<u>"</u>	

Was drive shoe used?  Y  N Shoe Depth(s) \_\_\_\_\_

Was drive shoe seal tested?  Y  N How? bailer

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>24</u>	<u>1.5</u>	<u>167</u>	<u>375</u>	<u>steel</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>20</u>	<u>1.5</u>	<u>37</u>	<u>250</u>	<u>steel</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>20</u>	<u>37</u>	<u>77</u>	<u>screen</u>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Length of Headpipe 77 167 250 Length of Tapline steel X

9. PERFORATIONS/SCREENS

Perforations Method factory  
 Screens Screen Type low carbon hi capacity steel screen

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>37</u>	<u>77</u>	<u>100</u>		<u>20</u>	<u>steel</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>77</u>	<u>167</u>	<u>1/4</u>	<u>40</u>	<u>20</u>	<u>steel</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

27 ft. below ground Artesian pressure \_\_\_\_\_ lb.  
 Depth flow encountered \_\_\_\_\_ ft. Describe access port or control devices: 2" pipe

11. WELL TESTS:

- Pump  Bailer  Air  Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>2400</u>	<u>16</u>	<u>43</u>	<u>8 hrs</u>

Water Temp. \_\_\_\_\_ Bottom hole temp. \_\_\_\_\_

Water Quality test or comments: \_\_\_\_\_

Depth first Water Encounter 27

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>24</u>	<u>0</u>	<u>6</u>	<u>soil gravel &amp; boulders</u>		
	<u>6</u>	<u>18</u>	<u>large gravel &amp; boulders</u>		
	<u>18</u>	<u>27</u>	<u>large gravel &amp; cobbles</u>		
	<u>27</u>	<u>42</u>	<u>clay &amp; large gravel</u>		
	<u>42</u>	<u>64</u>	<u>large &amp; small gravel</u>		
	<u>64</u>	<u>82</u>	<u>gravel &amp; clay</u>		
	<u>82</u>	<u>104</u>	<u>gravel &amp; sandy clay</u>		
	<u>104</u>	<u>117</u>	<u>large gravel &amp; boulders</u>		
	<u>117</u>	<u>121</u>	<u>cemented gravel</u>		
	<u>121</u>	<u>133</u>	<u>large &amp; small gravel</u>		
	<u>133</u>	<u>141</u>	<u>small gravel &amp; clay</u>		
	<u>141</u>	<u>149</u>	<u>sand gravel &amp; clay</u>		
	<u>149</u>	<u>154</u>	<u>large gravel &amp; large boulders &amp; cobbles</u>		
	<u>154</u>	<u>163</u>	<u>clay &amp; gravel</u>		
	<u>163</u>	<u>165</u>	<u>cemented gravel</u>		
	<u>165</u>	<u>167</u>	<u>gravel large &amp; small</u>		
	<u>167</u>		<u>bedrock</u>		

well was gravel packed with 1/2 washed round gravel and 24" casing was pulled from well

**RECEIVED**

JAN 08 2002

Department of Water Resources  
Southern Region

Completed \_\_\_\_\_ Depth 167 (Measurable)  
 Date: Started 9-29-2001 Completed 11-26-2001

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name COUCH WELL DRILLING INC. No. 161

Firm Official Shepherd Couch Date 12-18-2001  
 and  
 Driller or Operator Shepherd Couch  
 (Sign once if Firm Official & Operator)