



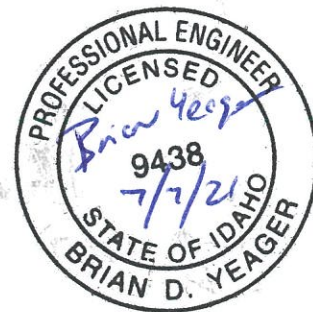
City of Hailey, Idaho

**Public Works Department
115 S. Main St, Hailey, ID 83333
(208) 788-9830**

Contract Documents and Specifications

**QUIGLEY ROAD
WATER MAIN IMPROVEMENTS PROJECT**

July, 2021



Prepared by:

**Hailey Public Works
115 Main St S., Ste H
Hailey, ID 83333
(208) 788-9830**

INSTRUCTIONS TO BIDDERS

BID PROPOSALS

The City of Hailey, Idaho, is accepting sealed bids at the office of the City Clerk, 115 Main St. S, Hailey, Idaho 83333, **until 3:00 p.m., local time, Tuesday, July 20, 2021**, for the following project:

QUIGLEY ROAD WATER MAIN IMPROVEMENTS

At 3:00 p.m. on the same day, all bid proposals will be opened publicly and read aloud in the Hailey City Hall council chambers.

The contract documents, plans and specifications may be obtained at the City of Hailey Public Works Department, 115 Main St. S, Hailey, Idaho 83333. The contract documents, plans and specifications may also be obtained by contacting Nancy Arellano or Brian Yeager at the City of Hailey: (208) 788-9830 x1 or via email at nancy.arellano@haileycityhall.org or brian.yeager@haileycityhall.org. Questions regarding the contract documents or scope of work should be submitted in writing to nancy.arellano@haileycityhall.org or brian.yeager@haileycityhall.org.

The Bidder must hold a valid Idaho Public Works License prior to the bid due date. The Bidder must submit a list of all subcontractors with their BID PROPOSAL.

The BID PROPOSAL must be submitted in a sealed envelope, plainly marked on the outside as:

“BID FOR QUIGLEY ROAD WATER MAIN IMPROVEMENTS”

If forwarded by mail, the sealed envelope containing the BID PROPOSAL must be enclosed in another envelope addressed to the HAILEY PUBLIC WORKS DEPARTMENT, in care of the receiving office.

The BID PROPOSAL must be made on the required BID FORM. All blank spaces for bid prices must be filled in, in ink or typewritten, and the BID FORM must be fully completed and executed when submitted. Only one copy of the BID FORM is required.

The CITY OF HAILEY may waive any informalities or minor defects or reject any and all BID PROPOSALS. Any BID PROPOSAL may be withdrawn prior to the above scheduled time for the opening of BID PROPOSALS or authorized postponement thereof. Any BID PROPOSAL received after the time and date specified shall not be considered. No Bidder may withdraw a BID PROPOSAL within 60 days after the actual date of the opening thereof. Should there be reasons why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the CITY OF HAILEY and the Bidder.

The Bidder is responsible for inspecting the site and for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of the Bidder to do any of the foregoing shall in no way relieve the Bidder from any obligation in respect to the Bidder's BID PROPOSAL. The Bidder must satisfy themselves of the accuracy of any estimated quantities in the BID PROPOSAL by examination of the site and a review of the drawings and specifications including ADDENDA. The quantities shown in the BID PROPOSAL are estimated quantities and are given solely for the purpose of facilitating the comparison of Proposals. All computations of the Contractor's compensation shall be based upon the quantities of work actually performed, whether greater or less than estimated quantities. After BID PROPOSALS have been submitted, the Bidder shall not assert that there was a misunderstanding concerning the quantities of WORK or of the nature of the WORK to be done. Any objections to the contents or terms of the contract documents, plans and specifications shall be raised no later than three (3) days prior to the bid opening date and time.

The CITY OF HAILEY shall provide to the Bidder, prior to the opening of the BID PROPOSALS, all information which is pertinent to, and delineates and describes, the land owned and rights-of-way acquired or to be acquired. The CONTRACT DOCUMENTS contain the provisions required for the construction of the project. Information obtained from an officer, agent, or employee of the CITY OF HAILEY, or any other person, shall not affect the risks or obligations assumed by the CONTRACTOR or relieve him from fulfilling any of the conditions of the AGREEMENT.

A PERFORMANCE BOND and a PAYMENT BOND, each in the amount of 100 percent of the CONTRACT PRICE, with a corporate surety approved by the CITY OF HAILEY, will be required for the faithful performance of the contract. Attorneys-in-fact who sign PERFORMANCE BONDS or PAYMENT BONDS must file with each bond a certified and effective dated copy of their power of attorney.

A conditional or qualified BID PROPOSAL will not be accepted.

The CITY OF HAILEY reserves the right to reject any or all BID PROPOSALS, and to postpone the award of the CONTRACT for a period not to exceed sixty (60) days.

INSTRUCTIONS TO BIDDERS (continued)

SUCCESSFUL BIDDER, NOTICE-OF-AWARD, EXECUTION OF AGREEMENT, and NOTICE-TO-PROCEED

The Bidder to whom the CITY OF HAILEY issues a NOTICE-OF-AWARD is deemed the "Successful Bidder."

The CITY OF HAILEY may make such investigations as deemed necessary to determine the ability of the Successful Bidder to perform the WORK, and the Successful Bidder shall furnish to the CITY OF HAILEY all such information and data for this purpose as the CITY OF HAILEY may request. The Successful Bidder shall supply the names and addresses of major material SUPPLIERS and SUBCONTRACTORS, if requested to do so by the CITY OF HAILEY. The CITY OF HAILEY reserves the right to reject any the Successful Bidder's BID PROPOSAL if the evidence submitted by, or investigation of, the Successful Bidder fails to satisfy the CITY OF HAILEY that the Successful Bidder is properly qualified to carry out the obligations of the AGREEMENT and to complete the WORK contemplated therein.

The CITY OF HAILEY shall include with the NOTICE-OF-AWARD the necessary agreement and bond forms. Within seven (7) calendar days from the date when the NOTICE-OF-AWARD is delivered to the Successful Bidder, the Successful Bidder will be required to execute the AGREEMENT and provide the acceptable PERFORMANCE BOND, PAYMENT BOND, and CERTIFICATE OF INSURANCE. If the Successful Bidder is unable to execute the AGREEMENT, as described, the CITY OF HAILEY may consider the Successful Bidder in default.

The CITY OF HAILEY, within ten (10) days of receipt of acceptable PERFORMANCE BOND, PAYMENT BOND, CERTIFICATE OF INSURANCE, and AGREEMENT, signed by the Successful Bidder to whom the AGREEMENT was awarded, shall sign the AGREEMENT, and return an executed duplicate of the AGREEMENT to the Successful Bidder. Should the CITY OF HAILEY not execute the AGREEMENT within this ten (10) day period, the Successful Bidder may, by written notice, withdraw the signed AGREEMENT. Such notice of withdrawal shall be effective upon receipt of the notice by the CITY OF HAILEY. Upon execution of the AGREEMENT, the Successful Bidder is deemed the "CONTRACTOR."

The CITY OF HAILEY shall issue the NOTICE-TO-PROCEED immediately following execution of the AGREEMENT by the CITY OF HAILEY. Should there be reasons why the NOTICE-TO-PROCEED cannot be issued within such period, the time may be extended by mutual agreement between the CITY OF HAILEY and CONTRACTOR. If the NOTICE-TO-PROCEED has not been issued within sixty (60) days of the bid opening or within the period mutually agreed upon, the CONTRACTOR may terminate the AGREEMENT without further liability on the part of either party.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT shall apply to the contract throughout as if written therein in full.

PROJECT DESCRIPTION

The proposed Work includes the installation of approximately 1,215 linear feet of 12-inch diameter PVC water main in City of Hailey between Sunbeam Subdivision and Quigley Farms rights-of-way, providing water main improvements along the north side of Quigley Road. Water main and service construction shall be in conformance with the City of Hailey Standards.

All quantities are approximate - this is a unit price basis project and the Contractor shall verify and confirm all quantities with the Owner. Refer to the Bid documents for additional information.

Work shall commence no later than September 7th, 2021 and must be substantially completed within 28 calendar days unless otherwise extended by the contract documents.

Questions regarding the contract documents or scope of work should be submitted in writing to either Nancy Arellano or Brian Yeager via email at Nancy.Arellano@haileycityhall.org or Brian.Yeager@haileycityhall.org.

PROJECT SPECIFICATION

This project's specifications are as noted on the CONTSTRUCTION DRAWINGS, the most current edition of the City of Hailey Standard Drawings and Specifications, and the Idaho State Public Works Construction Standard Specifications.

BID FORM

PROJECT IDENTIFICATION:

CITY OF HAILEY
QUIGLEY ROAD WATER MAIN IMPROVEMENTS

THIS BID IS SUBMITTED TO:

City of Hailey
115 Main St. S
Hailey, ID 83333

1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with the CITY OF HAILEY in the form included in the Bidding Documents to perform all work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

2.01 The undersigned Bidder accepts all of the terms and conditions of the Advertisement and/or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 60 days after the opening of Bid Proposals, or for such longer period of time that Bidder may agree to in writing upon request of the CITY OF HAILEY.

3.01 In submitting this Bid, the undersigned Bidder represents, as set forth in the AGREEMENT, that:

A. The Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of all of which is hereby acknowledged.

<u>Addendum No.</u>	<u>Addendum Date</u>	<u>Initial</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

B. The Bidder has visited the project site and become familiar with and is satisfied as to the general, local and project site conditions that may affect cost, progress, and performance of the WORK.

C. The Bidder is familiar with and is satisfied as to all federal, state and local laws and regulations that may affect cost, progress and performance of the WORK.

D. The Bidder has carefully studied all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the project site. The Bidder acknowledges that the CITY OF HAILEY does not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Bidding Documents with respect to underground facilities at or contiguous to the site.

E. The Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.

F. The Bidder is aware of the general nature of work to be performed by the CITY OF HAILEY and others at the project site that relates to the WORK as indicated in the Bidding Documents.

G. The Bidder has correlated the information known to the Bidder, information and observations obtained from visits to the project site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.

H. The Bidder has given the City of Hailey Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by the City of Hailey Engineer is acceptable to the Bidder.

I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the WORK for which this Bid is submitted.

4.01 The Bidder further represents that 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 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; The Bidder has not solicited or induced any individual or entity to refrain from bidding; and the Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over the CITY OF HAILEY.

4.02 Construction Schedule Coordination: The Bidder, after receipt of NOTICE-TO-PROCEED, shall coordinate with the City of Hailey Engineer to verify the proposed construction start date as indicated in the Agreement. The Contractor shall schedule a pre-construction meeting with the City of Hailey Engineer, to be held prior to commencing construction.

5.01 BID SCHEDULE: The Bidder will complete the WORK in accordance with the Contract Documents for the following price(s):

PROJECT: QUIGLEY ROAD WATER MAIN IMPROVEMENTS

#	Item & Category Description	Unit	Qty	Unit Price	Estimated Cost
	Roadways:				
1	Existing Asphalt Removal	S.Y.	43		
2	ITD SP-3 HMA, 1/2" gradation, PG58-28 (2.5" compacted depth)	TON	7		
3	Repair Gravel Driveway / Parking Area	S.Y.	310		
4	2-inch Minus Sub-Base, 6" depth	C.Y.	59		
5	3/4" Leveling Course Gravel, 4" Depth	C.Y.	39		
6	Traffic Control	L.S.	1		
	Potable Water:				
7	12" PVC Water Main (C-900)	L.F.	1,215		
8	12" Fittings (Ductile Iron) w/ thrust blocks	Each	1		
9	12" Gate Valves w/ thrust blocks	Each	2		
10	Fire Hydrant Assembly (includes FH, fittings, thrust blocks, valves)	Each	1		
11	6" PVC Water Main (C-900)	L.F.	12		
13	Connection to Hailey Water Main	Each	2		
	Landscape/ Irrigation:				
14	Landscape/ Irrigation Repair	L.F.	475		
Sum of Estimated Costs:					

SUM OF ESTIMATED COSTS WRITTEN IN WORDS

(Lowest Total Price will be considered as the low Bidder)

6.01 The Bidder agrees that the WORK will be substantially completed and ready for final payment on or before the dates or within the number of calendar days indicated in the AGREEMENT.

6.02 The Bidder accepts the provisions of the AGREEMENT as to liquidated damages in the event of failure to complete the WORK within the times specified above, which shall be stated in the AGREEMENT.

7.01 The following information is included in this bid package:

- A. Instructions to Bidders
- B. Bid Form
- C. Notice of Award
- D. Agreement
- E. Payment Bond
- F. Performance Bond
- G. Certificate of Insurance
- H. Notice to Proceed
- I. Drawings by Galena Engineering, dated June 9, 2021 titled "Quigley Road Water Main Improvements Plan Sheet"

7.02 The following documents are attached to and made a condition of this Bid:

A. The Bidder shall include in his Bid the name, or names and address, or addresses, and Idaho Public Works Contractor License Numbers of the Subcontractors who shall, in the event the Bidder secures the Contract, subcontract the plumbing, heating and air-conditioning work, and electrical work under the general Contract; and

B. 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 Instructions to Bidders (include Idaho Public Works Contractor License Numbers for any subcontractors).

C. The Bidder and the Bidder's subcontractors must hold a valid Idaho Public Works License prior to the bid due date. The Bidders must submit a list of all subcontractors with their bid.

SUBMITTED on _____, 2021.

Idaho Public Works Contractor License No. _____.

Expiration Date _____.

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)
(Individual's signature)

Doing business as: _____

Business address: _____

Phone No.: _____ FAX No.: _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____
(Signature of general partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone No.: _____ FAX No.: _____

A Corporation

Corporation Name: _____ (SEAL)

By: _____
(Signature -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____
(CORPORATE SEAL)

Attest _____
(Signature of Corporate Secretary)

Business address: _____

Phone No.: _____ FAX No.: _____

State of Incorporation: _____

Date of Qualification to do business is _____.

A Joint Venture

Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone No.: _____ FAX No.: _____

Joint Venturer Name: _____ (SEAL)

By: _____
(Signature -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone No.: _____ FAX No.: _____

Phone and FAX Number, and Address for receipt of official communications:

(Each joint venturer 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.)

A Limited Liability Company

Limited Liability Company Name: _____ (SEAL)

By: _____
(Signature -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Attest _____
(Signature of Member/Manager)

Business address: _____

Phone No.: _____ FAX No.: _____

State of Organization: _____

Date of Qualification to do business is _____.

NOTICE OF AWARD

Dated: _____

[Certified Mail -- Return Receipt Requested]

TO: _____
(BIDDER)

ADDRESS: _____

Contract: **QUIGLEY ROAD WATER MAIN IMPROVEMENTS**
(Insert name of Contract as it appears in the Bidding Documents)

Project: City of Hailey Quigley Road Water Main Improvements

OWNER's Contract No. N/A

You are notified that your Bid dated _____, for the above Contract has been considered. You are the apparent Successful Bidder and have been awarded a Contract for the Quigley Road Water Main Improvements project.

The Contract Price of your Contract is _____
(\$_____)

One (1) copy of the proposed Contract Documents and one (1) copy of the Construction Drawings accompany this Notice of Award.

You must comply with the following conditions upon receipt of this Notice of Award.

1. Deliver to the CITY OF HAILEY one (1) fully executed copy of the Contract Documents within seven (7) calendar days of this Notice of Award.
2. Deliver with the executed Contract Documents the Contract security (Bonds) and Certificate of Insurance as specified in this document within seven (7) calendar days of this Notice of Award.

AGREEMENT

This AGREEMENT, made this _____ day of _____, 2021, by and between the City of Hailey, Idaho, hereinafter called "CITY OF HAILEY" and _____, hereinafter called "CONTRACTOR".

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned:

- 1. The CONTRACTOR will commence and complete the construction of: **QUIGLEY ROAD WATER MAIN IMPROVEMENTS.**
- 2. The CONTRACTOR will furnish all of the material, supplies, tools, equipment, labor and other services necessary for the construction and completion of the WORK described herein.
- 3. The CONTRACTOR will commence work no later than September 7, 2021. All work must be substantially complete within **28 calendar days**. All work must achieve final completion within **42 calendar days** which is _____ ("Date of Final Completion"), unless otherwise extended by the CONTRACT DOCUMENTS.
- 4. The CONTRACTOR agrees to perform all of the WORK described in the CONTRACT DOCUMENTS and comply with the terms therein for the sum of:

_____ \$ _____
 (write in letters) (insert numbers)
 as shown in the submitted BID PROPOSAL.

- 5. The term "CONTRACT DOCUMENTS" means and includes the following:
 - 5.01 INSTRUCTIONS TO BIDDERS
 - 5.02 BID FORM
 - 5.03 NOTICE OF AWARD
 - 5.04 AGREEMENT
 - 5.05 PAYMENT BOND
 - 5.06 PERFORMANCE BOND
 - 5.07 CERTIFICATE OF INSURANCE
 - 5.08 NOTICE TO PROCEED
 - 5.09 DRAWING BY GALENA ENGINEERING DATED JUNE 9, 2021 TITLED "QUIGLEY ROAD WATER MAIN IMPROVEMENTS PLAN SHEET"
 - 5.10 CITY OF HAILEY STANDARD DRAWINGS AND SPECIFICATIONS
 - 5.11 IDAHO STATE PUBLIC WORKS CONSTRUCTION STANDARD SPECIFICATIONS
- 6. *Retainage.* The CITY OF HAILEY will pay to the CONTRACTOR in the manner and at such times as set forth in the General Conditions such amounts as required by the CONTRACT DOCUMENTS. Five-percent (5%) retainage will be held from each payment. Retainage will be released upon Certification of Substantial Completion.
- 7. *Liquidated Damages.* The CITY OF HAILEY and CONTRACTOR recognize that time is of the essence of this Agreement and that the CITY OF HAILEY will suffer financial loss if the WORK is not completed within the times specified in paragraph 3 above. They also recognize the delays, expense and difficulties involved in proving the actual loss suffered by the CITY OF HAILEY if the WORK is not completed on time. Accordingly, instead of requiring any such proof, the CITY OF HAILEY and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay the CITY OF HAILEY **five hundred dollars (\$500.00)** for each day that expires after the Date of Final Completion, or any proper extension thereof granted by the CITY OF HAILEY.
- 8. This Agreement shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement, deemed an original on the date first above written.

OWNER:

CITY OF HAILEY, IDAHO

BY: _____
Martha Burke, Mayor

(SEAL)

ATTEST:

Mary Cone, Clerk

CONTRACTOR:

BY: _____

Title: _____

Address: _____

(SEAL)

ATTEST:

Name: _____
(Type or Print)

Title: _____

Payment Bond

Any singular reference to Contractor, Surety, Owner (CITY OF HAILEY) or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

SURETY (Name and Address of Principal Place
of Business):

OWNER (Name and Address):

CONTRACT

Date:
Amount:
Description (Name and Location):

BOND

Date (Not earlier than Contract Date):
Amount:
Modifications to this Bond Form:

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

CONTRACTOR AS PRINCIPAL

Company: _____ (Corp. Seal)

Signature: _____
Name and Title:

SURETY

Company: _____ (Corp. Seal)

Signature: _____
Name and Title:
(Attach Power of Attorney)

(Space is provided below for signatures of additional parties, if required.)

CONTRACTOR AS PRINCIPAL

Company: _____ (Corp. Seal)

Signature: _____
Name and Title:

SURETY

Company: _____ (Corp. Seal)

Signature: _____
Name and Title:

1. The CONTRACTOR and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the OWNER to pay for labor, materials and equipment furnished for use in the performance of the Contract, which is incorporated herein by reference.

2. With respect to the OWNER, this obligation shall be null and void if the CONTRACTOR:

2.1. Promptly makes payment, directly or indirectly, for all sums due Claimants, and

2.2. Defends, indemnifies and holds harmless the OWNER from all claims, demands, liens or suits by any person or entity who furnished labor, materials or equipment for use in the performance of the Contract, provided the

EJCDC No. 1910-28-B (1996 Edition)

Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, the American Institute of Architects, the American Subcontractors Association, and the Associated Specialty Contractors

OWNER has promptly notified the CONTRACTOR and the Surety (at the addresses described in paragraph 12) of any claims, demands, liens or suits and tendered defense of such claims, demands, liens or suits to the CONTRACTOR and the Surety, and provided there is no OWNER Default.

3. With respect to Claimants, this obligation shall be null and void if the CONTRACTOR promptly makes payment, directly or indirectly, for all sums due.

4. The Surety shall have no obligation to Claimants under this Bond until:

4.1. Claimants who are employed by or have a direct contract with the CONTRACTOR have given notice to the Surety (at the addresses described in paragraph 12) and sent a copy, or notice thereof, to the OWNER, stating that a claim is being made under this Bond and, with substantial accuracy, the amount of the claim.

4.2. Claimants who do not have a direct contract with the CONTRACTOR:

1. Have furnished written notice to the CONTRACTOR and sent a copy, or notice thereof, to the OWNER, within 90 days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials were furnished or supplied or for whom the labor was done or performed; and

2. Have either received a rejection in whole or in part from the CONTRACTOR, or not received within 30 days of furnishing the above notice any communication from the CONTRACTOR by which the CONTRACTOR had indicated the claim will be paid directly or indirectly; and

3. Not having been paid within the above 30 days, have sent a written notice to the Surety and sent a copy, or notice thereof, to the OWNER, stating that a claim is being made under this Bond and enclosing a copy of the previous written notice furnished to the CONTRACTOR.

5. If a notice required by paragraph 4 is given by the OWNER to the CONTRACTOR or to the Surety, that is sufficient compliance.

6. When the Claimant has satisfied the conditions of paragraph 4, the Surety shall promptly and at the Surety's expense take the following actions:

6.1. Send an answer to the Claimant, with a copy to the OWNER, within 45 days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.

6.2. Pay or arrange for payment of any undisputed amounts.

7. The Surety's total obligation shall not exceed the amount of this Bond, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.

8. Amounts owed by the OWNER to the CONTRACTOR under the Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any Performance Bond. By the CONTRACTOR furnishing and the OWNER accepting this Bond, they agree that all funds earned by the CONTRACTOR in the performance of the Contract are dedicated to satisfy obligations of the CONTRACTOR and the Surety under this Bond, subject to the OWNER's priority to use the funds for the completion of the Work.

9. The Surety shall not be liable to the OWNER, Claimants or others for obligations of the CONTRACTOR that are unrelated to the Contract. The OWNER shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.

10. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related Subcontracts, purchase orders and other obligations.

11. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the location in which the Work or part of the Work is located or after the expiration of one year from the date (1) on which the Claimant gave the notice required by paragraph 4.1 or paragraph 4.2.3, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

12. Notice to the Surety, the OWNER or the CONTRACTOR shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, the OWNER or the CONTRACTOR, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.

13. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted here from and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is, that this Bond shall be construed as a statutory Bond and not as a common law bond.

14. Upon request of any person or entity appearing to be a potential beneficiary of this Bond, the CONTRACTOR shall promptly furnish a copy of this Bond or shall permit a copy to be made.

15. DEFINITIONS

15.1. Claimant: An individual or entity having a direct contract with the CONTRACTOR or with a Subcontractor of the CONTRACTOR to furnish labor, materials or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of the CONTRACTOR and the CONTRACTOR's Subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials or equipment were furnished.

15.2. Contract: The agreement between the OWNER and the CONTRACTOR identified on the signature page, including all Contract Documents and changes thereto.

15.3. OWNER Default: Failure of the OWNER, which has neither been remedied nor waived, to pay the CONTRACTOR as required by the Contract or to perform and complete or comply with the other terms thereof.

Performance Bond

Any singular reference to Contractor, Surety, Owner (CITY OF HAILEY) or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

SURETY (Name and Address of Principal Place
of Business):

OWNER (Name and Address):

CONTRACT

Date:

Amount:

Description (Name and Location):

BOND

Date (Not earlier than Contract Date):

Amount:

Modifications to this Bond Form:

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

CONTRACTOR AS PRINCIPAL

Company: _____ (Corp. Seal)

Signature: _____

Name and Title:

SURETY

Company: _____ (Corp. Seal)

Signature: _____

Name and Title:

(Attach Power of Attorney)

(Space is provided below for signatures of additional parties, if required.)

CONTRACTOR AS PRINCIPAL

Company: _____ (Corp. Seal)

Signature: _____

Name and Title:

SURETY

Company: _____ (Corp. Seal)

Signature: _____

Name and Title:

1. The CONTRACTOR and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Contract, which is incorporated herein by reference.

2. If the CONTRACTOR performs the Contract, the Surety and the CONTRACTOR have no obligation under this Bond, except to participate in conferences as provided in paragraph 3.1.

3. If there is no OWNER Default, the Surety's obligation under this Bond shall arise after:

3.1. The OWNER has notified the CONTRACTOR and the Surety at the addresses described in paragraph 10 below, that the OWNER is considering declaring a CONTRACTOR Default and has requested and attempted to arrange a conference with the CONTRACTOR and the Surety to be held not later than fifteen days after receipt of such notice to discuss methods of performing the Contract. If the OWNER, the CONTRACTOR and the Surety agree, the CONTRACTOR shall be allowed a reasonable time to perform the Contract, but such an agreement shall not waive the OWNER's right, if any, subsequently to declare a CONTRACTOR Default; and

3.2. The OWNER has declared a CONTRACTOR Default and formally terminated the CONTRACTOR's right to complete the Contract. Such CONTRACTOR Default shall not be declared earlier than twenty days after the CONTRACTOR and the Surety have received notice as provided in paragraph 3.1; and

3.3. The OWNER has agreed to pay the Balance of the Contract Price to:

3.3.1. The Surety in accordance with the terms of the Contract;

3.3.2 Another contractor selected pursuant to paragraph 4.3 to perform the Contract.

4. When the OWNER has satisfied the conditions of paragraph 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

4.1. Arrange for the CONTRACTOR, with consent of the OWNER, to perform and complete the Contract; or

4.2. Undertake to perform and complete the Contract itself, through its agents or through independent contractors; or

4.3. Obtain bids or negotiated proposals from qualified contractors acceptable to the OWNER for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by the OWNER and the contractor selected with the OWNER's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the Bonds issued on the Contract, and pay to the OWNER the amount of damages as described in paragraph 6 in excess of the Balance of the Contract Price incurred by the OWNER resulting from the CONTRACTOR Default; or

4.4. Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances;

4.4.1 After investigation, determine the amount for which it may be liable to the OWNER and, as soon as practicable after the amount is determined, tender payment therefor to the OWNER; or

4.4.2 Deny liability in whole or in part and notify the OWNER citing reasons therefor.

5. If the Surety does not proceed as provided in paragraph 4 with reasonable promptness, the Surety shall be deemed to be in default on this Bond fifteen days after receipt of an additional written notice from the OWNER to the Surety demanding that the Surety perform its obligations under this Bond, and the OWNER shall be entitled to enforce any remedy available to the OWNER. If the Surety proceeds as provided in paragraph 4.4, and the OWNER refuses the payment tendered or the Surety has denied

liability, in whole or in part, without further notice the OWNER shall be entitled to enforce any remedy available to the OWNER.

6. After the OWNER has terminated the CONTRACTOR's right to complete the Contract, and if the Surety elects to act under paragraph 4.1, 4.2, or 4.3 above, then the responsibilities of the Surety to the OWNER shall not be greater than those of the CONTRACTOR under the Contract, and the responsibilities of the OWNER to the Surety shall not be greater than those of the OWNER under the Contract. To a limit of the amount of this Bond, but subject to commitment by the OWNER of the Balance of the Contract Price to mitigation of costs and damages on the Contract, the Surety is obligated without duplication for:

6.1. The responsibilities of the CONTRACTOR for correction of defective Work and completion of the Contract;

6.2. Additional legal, design professional and delay costs resulting from the CONTRACTOR's Default, and resulting from the actions or failure to act of the Surety under paragraph 4; and

6.3. Liquidated damages, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or non-performance of the CONTRACTOR.

7. The Surety shall not be liable to the OWNER or others for obligations of the CONTRACTOR that are unrelated to the Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the OWNER or its heirs, executors, administrators, or successors.

8. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related subcontracts, purchase orders and other obligations.

9. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the Work or part of the Work is located and shall be instituted within two years after CONTRACTOR Default or within two years after the CONTRACTOR ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

10. Notice to the Surety, the OWNER or the CONTRACTOR shall be mailed or delivered to the address shown on the signature page.

11. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the Contract was performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted here from and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

12. Definitions.

12.1 Balance of the Contract Price: The total amount payable by the OWNER to the CONTRACTOR under the Contract after all proper adjustments have been made, including allowance to the CONTRACTOR of any amounts received or to be received by the OWNER in settlement of insurance or other Claims for damages to which the CONTRACTOR is entitled, reduced by all valid and proper payments made to or on behalf of the CONTRACTOR under the Contract.

12.2. Contract: The agreement between the OWNER and the CONTRACTOR identified on the signature page, including all Contract Documents and changes thereto.

12.3. CONTRACTOR Default: Failure of the CONTRACTOR, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Contract.

12.4. OWNER Default: Failure of the OWNER, which has neither been remedied nor waived, to pay the CONTRACTOR as required by the Contract or to perform and complete or comply with the other terms thereof.

CERTIFICATE OF INSURANCE

This page intentionally left blank as a placeholder for Certificate of Insurance from Contractor.

NOTICE TO PROCEED

Dated _____

TO _____
(CONTRACTOR)

ADDRESS: _____

Contract: QUIGLEY ROAD WATER MAIN IMPROVEMENTS
(Insert name of Contract as it appears in the Contract Documents)

You are hereby notified to commence WORK on _____ in accordance with the AGREEMENT, and you are to complete the WORK by _____, unless the period for completion is extended otherwise by the CONTRACT DOCUMENTS.

You are required to return an acknowledged copy of this NOTICE-TO-PROCEED to the CITY OF HAILEY.

Dated this _____ day of _____, 2021.

CITY OF HAILEY
(OWNER)

By: _____
(AUTHORIZED SIGNATURE)

MARTHA BURKE, MAYOR
(TITLE)

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged on this _____ day of _____, 2021 by: _____
(Contractor)

By: _____

Title: _____

ORIGINAL SIGNED BY
 SAMANTHA STAHLNECKER
 DATE ORIGINAL SIGNED:
 06/09/2021

PROFESSIONAL ENGINEER
 LICENSED
 17618
 06/06/09/21
 STATE OF IDAHO
 SAMANTHA STAHLNECKER

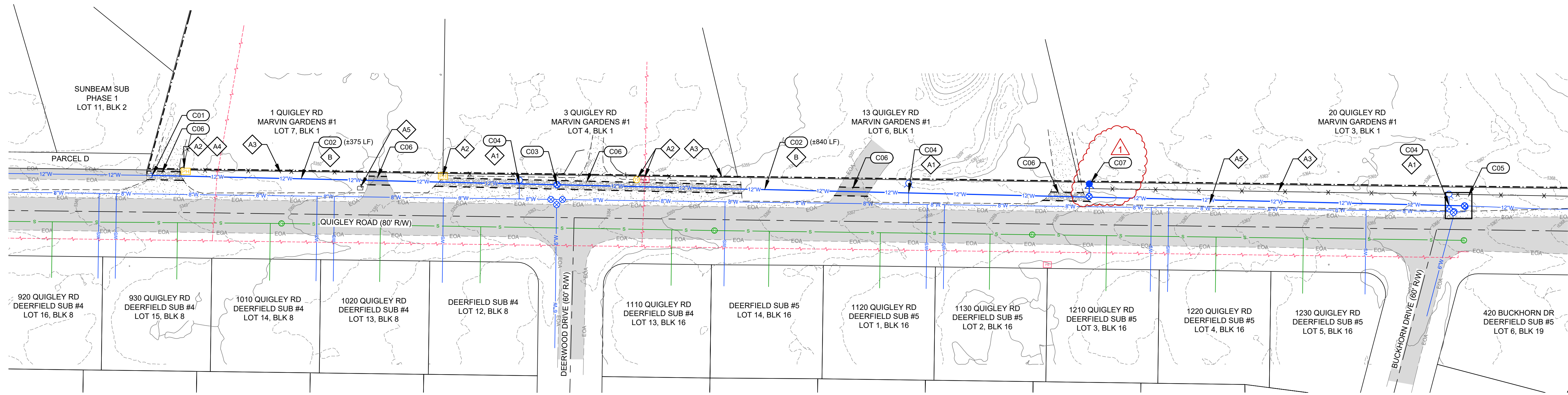
ORIGINAL ON FILE AT
 OFFICE OF GALENA
 ENGINEERING
 (HAILEY, ID)

DESIGNED BY
 CT
 DRAWN BY
 SKS
 CHECKED BY

GALENA
 ENGINEERING, INC.
 Civil Engineers & Land Surveyors
 317 N. River Street
 Hailey, Idaho 83433
 (208) 788-1705
 email: galena@galena-engineering.com

PURPOSE: ISSUE FOR D.E.Q. APPROVAL (06/03/2021)

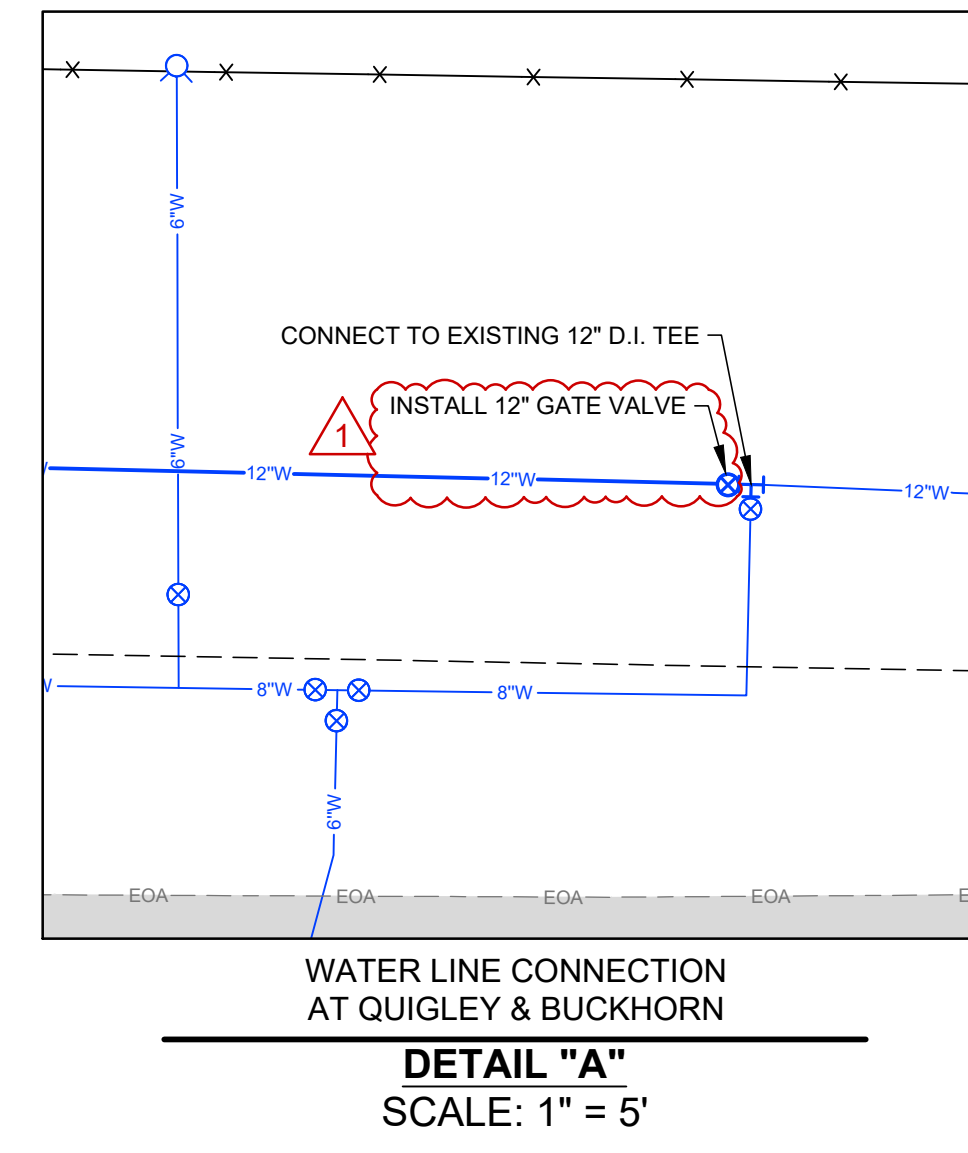
NO.	DATE	BY	REVISIONS
1	06/09/21	SKS	ADD FIRE HYDRANT



LEGEND

EXISTING ITEMS		PROPOSED ITEMS	
City Limits	Telephone Riser	Cut Line of Driveway	
Lot Line	Buried Power Line	12" Water Main	
Centerline	Power Box	6" Water Main	
5' Contour Interval	Sewer Main	Water Valve	
1' Contour Interval	Sewer Service	Water Fitting	
Fence	SMH = Sewer Manhole	Thrust Block	
Asphalt	6" Water Main	Fire Hydrant	
Gravel Drive / Parking	8" Water Main	Water Valve	
Mail Box	12" Water Main	Water Fitting	
Sign	Water Service		
Cable TV Riser	Fire Hydrant		
	Water Valve		
	Water Fitting		

- KEY NOTES**
- C01 POINT OF WATER MAIN CONNECTION. REMOVE AND DISPOSE OF CAP.
 - C02 INSTALL 12" PVC C-900 WATER MAIN. REFER TO DETAIL 1 / C1.2.
 - C03 INSTALL 12" GATE VALVE W/ THRUST BLOCK. REFER TO DETAIL 2 / C1.2.
 - C04 FIRE HYDRANT LATERAL CROSSING. CONTRACTOR TO ENSURE THAT THERE IS A MINIMUM OF 12" OF SEPARATION BETWEEN PIPES WITH A MINIMUM OF 8" OF COVER.
 - C05 POINT OF WATER MAIN CONNECTION. REFER TO DETAIL "A", THIS SHEET, FOR NUMBER AND TYPE OF ADDITIONAL FITTINGS.
 - C06 CONSTRUCT DRIVEWAY / PARKING AREA REPAIR. MATCH EXISTING MATERIALS, LAYERS, AND THICKNESSES.
 - C07 INSTALL FIRE HYDRANT ASSEMBLY
 6" C-900 PVC WATER LATERAL
 6" GATE VALVE
 12"x12"x8" TEE
 W/ THRUST BLOCKS
 SEE DETAIL 3 / C1.2
 - A RETAIN AND PROTECT
 1. FIRE HYDRANT
 2. UTILITY RISER / BOX
 3. FENCE
 4. SIGN
 5. MAILBOX
 - B REPAIR IRRIGATION AND LANDSCAPING AS NECESSARY. CONTRACTOR TO ENSURE FINAL CONDITION OF RIGHT-OF-WAY IS EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.



GENERAL CONSTRUCTIONS NOTES

1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MOST CURRENT EDITION OF THE "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION" (ISPCW) AND CITY OF HAILEY STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND KEEPING A COPY OF THE ISPCW AND CITY OF HAILEY STANDARDS ON SITE DURING CONSTRUCTION.
2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS IN AN APPROXIMATE WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES PRIOR TO COMMENCING AND DURING THE CONSTRUCTION. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH RESULT FROM HIS FAILURE TO ACCURATELY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL CALL DIGLINE (1-800-342-1585) TO LOCATE ALL EXISTING UNDERGROUND UTILITIES A MINIMUM OF 48 HOURS IN ADVANCE OF EXCAVATION.
3. CONTRACTOR SHALL COORDINATE RELOCATIONS OF DRY UTILITY FACILITIES (POWER, CABLE, PHONE, TV) WITH THE APPROPRIATE UTILITY FRANCHISE.
4. THE CONTRACTOR SHALL CLEAN UP THE SITE AFTER CONSTRUCTION SO THAT IT IS IN A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION (THIS INCLUDES, BUT IS NOT LIMITED TO, ENCROACHMENT PERMITS AND NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT (CGP) PERMIT COVERAGE).
6. ALL CLEARING & GRUBBING SHALL CONFORM TO ISPCW SECTION 201.
7. ALL EXCAVATION & EMBANKMENT SHALL CONFORM TO ISPCW SECTION 202. SUBGRADE SHALL BE EXCAVATED AND SHAPED TO LINE, GRADE, AND CROSS-SECTION SHOWN ON THE PLANS. THE SUBGRADE SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-698. THE CONTRACTOR SHALL WATER OR AERATE SUBGRADE AS NECESSARY TO OBTAIN OPTIMUM MOISTURE CONTENT. IN-LIEU OF DENSITY MEASUREMENTS, THE SUBGRADE MAY BE PROOF-ROLLED TO THE APPROVAL OF THE ENGINEER.
 - PROOF-ROLLING: AFTER EXCAVATION TO THE SUBGRADE ELEVATION AND PRIOR TO PLACING COURSE GRAVEL, THE CONTRACTOR SHALL PROOF ROLL THE SUBGRADE WITH A 5-TON SMOOTH DRUM ROLLER, LOADED WATER TRUCK, OR LOADED DUMP TRUCK, AS ACCEPTED BY THE ENGINEER. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF UNSUITABLE SUBGRADE MATERIAL AREAS, AND/OR AREAS NOT CAPABLE OF COMPACTION ACCORDING TO THESE SPECIFICATIONS. UNSUITABLE OR DAMAGED SUBGRADE IS WHEN THE SOIL MOVES, PUMPS AND/OR DISPLACES UNDER ANY TYPE OF PRESSURE INCLUDING FOOT TRAFFIC LOADS.
 - IF, IN THE OPINION OF THE ENGINEER, THE CONTRACTOR'S OPERATIONS RESULT IN DAMAGE TO, OR PROTECTION OF, THE SUBGRADE, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR THE DAMAGED SUBGRADE BY OVER-EXCAVATION OF UNSUITABLE MATERIAL TO FIRM SUBSOIL, LINE EXCAVATION WITH GEOTEXTILE FABRIC, AND BACKFILL WITH PIT RUN GRAVEL.
8. ALL 2" MINUS GRAVEL SHALL CONFORM TO ISPCW 802, TYPE II (ITD STANDARD 703.04, 2"), SHALL BE PLACED IN CONFORMANCE WITH ISPCW SECTION 801 AND COMPACTED PER SECTION 202. MINIMUM COMPACTION OF PLACED MATERIAL SHALL BE 90% OF MAXIMUM LABORATORY DENSITY AS DETERMINED BY AASHTO T-99.
9. ALL 3/4" MINUS CRUSHED GRAVEL SHALL CONFORM TO ISPCW 802, TYPE I (ITD STANDARD 703.04, 3/4" B), SHALL BE PLACED IN CONFORMANCE WITH ISPCW SECTION 802 AND COMPACTED PER SECTION 202. MINIMUM COMPACTION OF PLACED MATERIAL SHALL BE 95% OF MAXIMUM LABORATORY DENSITY AS DETERMINED BY AASHTO T-99 OR ITD T-91.
10. ALL ASPHALTIC CONCRETE PAVEMENT WORK SHALL CONFORM TO ISPCW SECTION(S) 805, 810, AND 811 FOR CLASS II PAVEMENT. ASPHALT AGGREGATE SHALL BE 1/2" (13MM) NOMINAL SIZE CONFORMING TO TABLE 803B IN ISPCW SECTION 803. ASPHALT BINDER SHALL BE PG 58-28 CONFORMING TO TABLE A-1 IN ISPCW SECTION 805.
11. ASPHALT SAWCUTS SHALL BE AS INDICATED ON THE DRAWINGS, OR 24" INCHES FROM EDGE OF EXISTING ASPHALT, IF NOT INDICATED OTHERWISE SO AS TO PROVIDE A CLEAN PAVEMENT EDGE FOR MATCHING. NO WHEEL CUTTING SHALL BE ALLOWED.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL PER THE CURRENT EDITION OF THE US DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
13. ALL TRENCHING SHALL CONFORM TO ISPCW STANDARD DRAWING SD-301. TRENCHES SHALL BE BACKFILLED AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
14. PER IDAHO CODE § 55-1613, THE CONTRACTOR SHALL RETAIN AND PROTECT ALL MONUMENTS, ACCESSORIES TO CORNERS, BENCHMARKS AND POINTS SET IN CONTROL SURVEYS; ALL MONUMENTS, ACCESSORIES TO CORNERS, BENCHMARKS AND POINTS SET IN CONTROL SURVEYS THAT ARE LOST OR DISTURBED BY CONSTRUCTION SHALL BE REESTABLISHED AND RE-MONUMENTED, AT THE EXPENSE OF THE AGENCY OR PERSON CAUSING THEIR LOSS OR DISTURBANCE AT THEIR ORIGINAL LOCATION OR BY SETTING OF A WITNESS CORNER OR REFERENCE POINT OR A REPLACEMENT BENCHMARK OR CONTROL POINT, BY OR UNDER THE DIRECTION OF A PROFESSIONAL LAND SURVEYOR.
15. NO FIELD SURVEY WAS CONDUCTED FOR THE PURPOSES OF THIS PROJECT. EXISTING CONTOUR DATA IS PER BLAINE COUNTY 2015 LIDAR. BOUNDARY INFORMATION IS APPROXIMATE AND PER BLAINE COUNTY G.I.S. DATA. UTILITIES SHOWN HEREON ARE APPROXIMATE AND PER CITY MAPS.

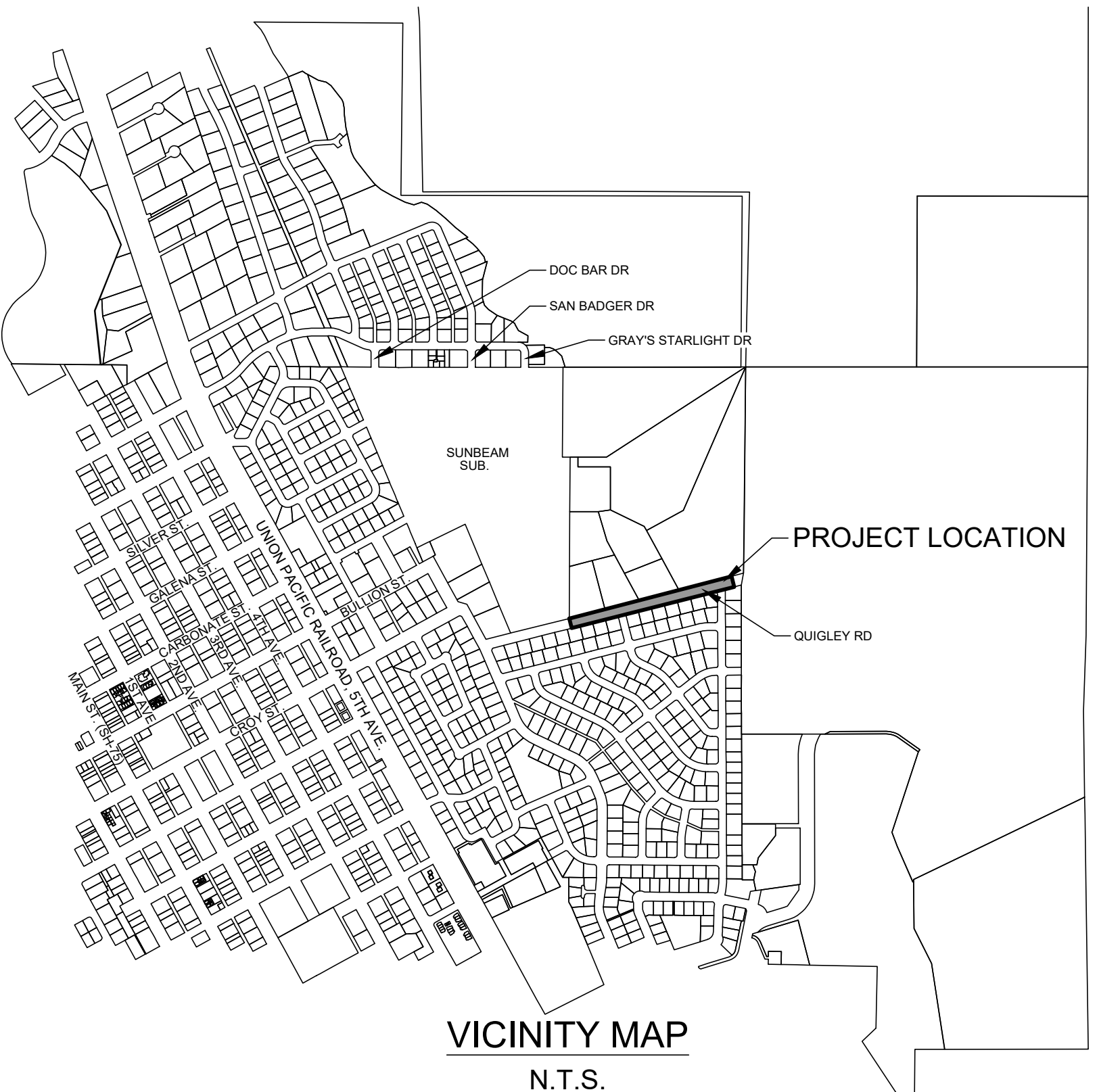
State of Idaho • Department of Environmental Quality
PLANS & SPECIFICATIONS REVIEW

These plans and/or specifications have been reviewed for compliance with Department of Environmental Quality rules. This review does not relieve the owner, engineer, or the contractor of the responsibility to design or construct these facilities in compliance with all current applicable federal, state, and local laws, rules, regulations, or ordinances. Plans and/or specifications must be resubmitted for review if construction is not completed within one year from approval date.

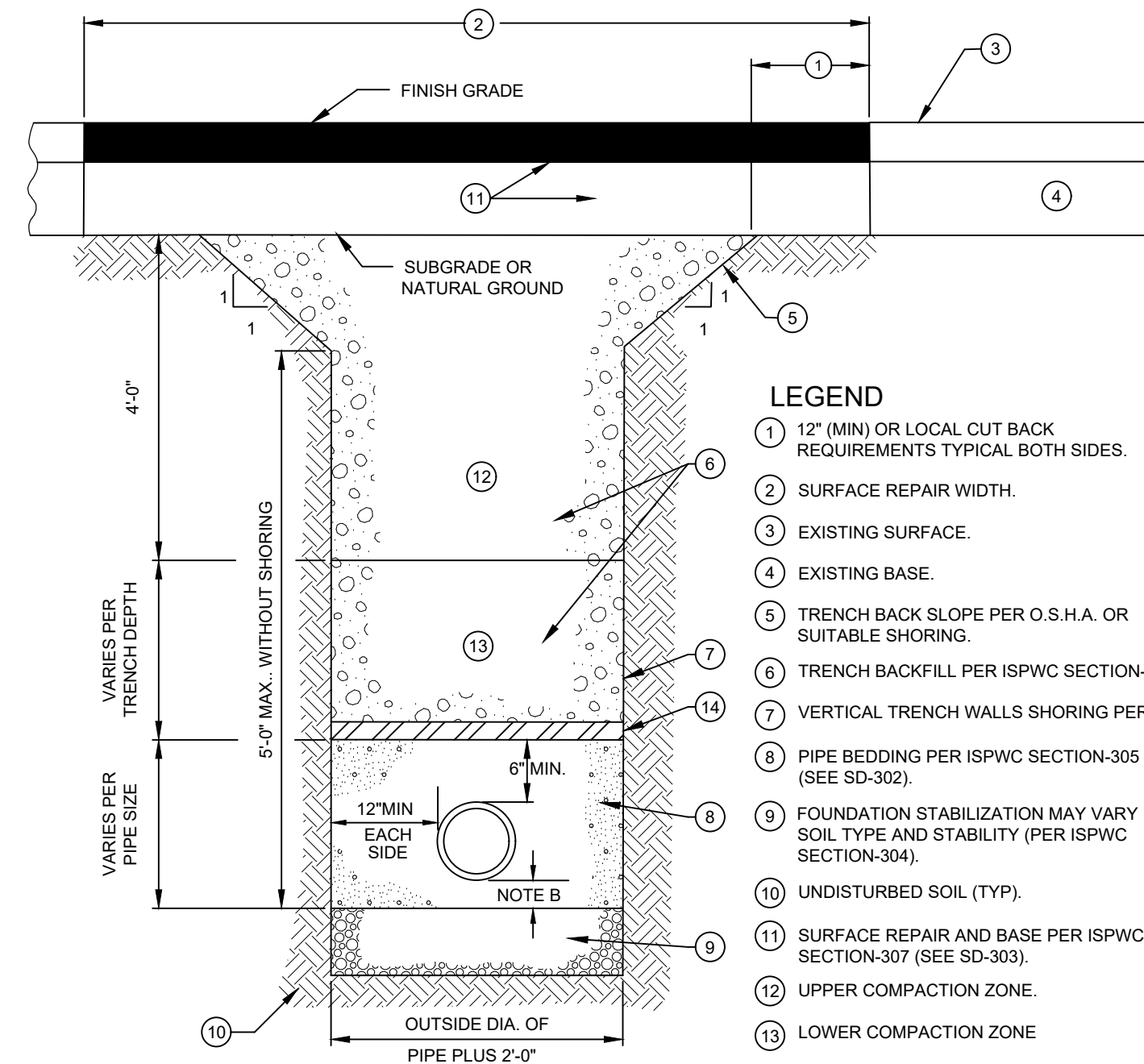
Joseph Otero, P.E. Jun 11, 2021
 Reviewing DEQ Engineer Approval Date

Refer to approval conditions in letter to: City of Hailey

W-120-21



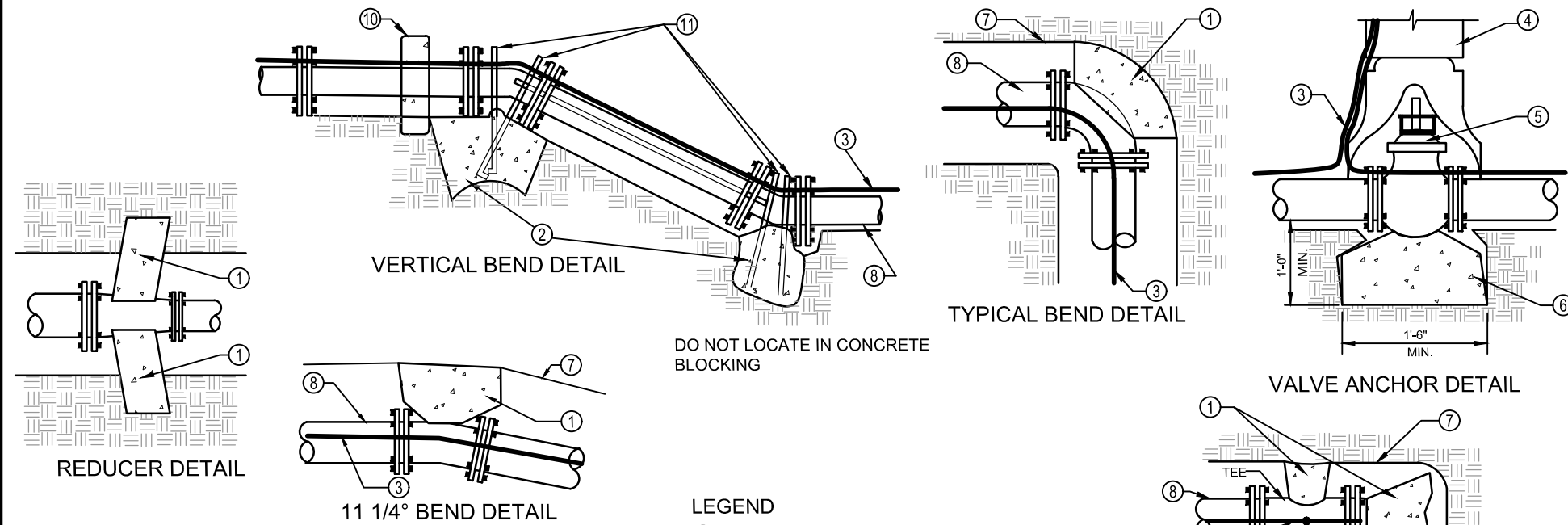
REUSE OF DRAWINGS: These drawings, or any portion thereof, shall not be used on any project or extension of this project except by agreement in writing with Galena Engineering, Inc.



- LEGEND**
- 1 12" (MIN) OR LOCAL CUT BACK REQUIREMENTS TYPICAL BOTH SIDES.
 - 2 SURFACE REPAIR WIDTH.
 - 3 EXISTING SURFACE.
 - 4 EXISTING BASE.
 - 5 TRENCH BACK SLOPE PER O.S.H.A. OR SUITABLE SHORING.
 - 6 TRENCH BACKFILL PER ISPPWC SECTION-306.
 - 7 VERTICAL TRENCH WALLS SHORING PER O.S.H.A.
 - 8 PIPE BEDDING PER ISPPWC SECTION-305 (SEE SD-302).
 - 9 FOUNDATION STABILIZATION MAY VARY PER SOIL TYPE AND STABILITY (PER ISPPWC SECTION-304).
 - 10 UNDISTURBED SOIL (TYP).
 - 11 SURFACE REPAIR AND BASE PER ISPPWC SECTION-307 (SEE SD-303).
 - 12 UPPER COMPACTION ZONE.
 - 13 LOWER COMPACTION ZONE.
 - 14 2" OF DOW BOARD WHERE POTABLE WATERLINE IS UNDER ASPHALT ROAD SECTION.

- NOTES**
- (A) TRENCH EXCAVATION PER SECTION-301.
 - (B) PIPE BEDDING PER SECTION-305.
 - (C) BACKFILL AND COMPACTION PER SECTION-306.
 - (D) SURFACE REPAIR AND BASE PER SECTION-307, SEE SD-303.

1 C1.2 TYPICAL UTILITY TRENCH DETAIL
N.T.S.



- LEGEND**
- 1 FOR HORIZONTAL PIPE BENDS, BEARING THRUST BLOCKS MUST PROVIDE 2500 PSI CONCRETE POURED AGAINST UNDISTURBED EARTH PER TABLE 1.
 - 2 FOR VERTICAL PIPE BENDS, GRAVITY THRUST BLOCKS MUST PROVIDE A VOLUME OF CONCRETE POURED AGAINST UNDISTURBED EARTH WHICH IS SIZED FOR EXPECTED FORCES WITH A MINIMUM 1.5 FACTOR OF SAFETY.
 - 3 NO. 12 COPPER FINDER WIRE. SEE SD-S14 FOR SPLICING.
 - 4 C.I. VALVE BOX WITH COVER.
 - 5 C.I. GATE VALVE (M.J.).
 - 6 PRECAST BLOCK FOR CUT IN TEE AND VALVE OR CAST IN PLACE WITH 2-1/2" MIN REBAR.
 - 7 TRENCH SIDE.
 - 8 PIPE.
 - 9 PLUG.
 - 10 HAMMERHEAD THRUST BLOCKING.
 - 11 ANCHOR BARS (1/2"Ø MIN)

TABLE 1 THRUST AREA FOR HORIZONTAL BENDS**

PIPE SIZE OF VALVE BEND**	90° BEND	45° BEND	22.5° BENDS OR REDUCER
3"	0.9	1.1	0.6
4"	1.4	2.0	1.1
6"	3.2	4.5	2.4
8"	5.7	8.0	4.3
10"	8.8	12.5	6.8
12"	12.7	18.0	9.7
14"	17.3	24.5	13.3
16"	22.6	32.0	17.3
18"	28.6	40.5	21.9

* MUST BE INCREASED BASED ON DIFFERENT CONDITIONS (HIGHER WORKING PRESSURE OR LOWER SOIL BEARING STRENGTH).
** OR TEE ACTING AS A 90° BEND
***THRUST BLOCK DEPTH TO BE A MINIMUM PF 12" FOR PIPE SIZES 3"-8" AND 18" FOR PIPE SIZES 10"-18" OR THE SQUARE ROOT OF THE REQUIRED BEARING AREA, WHICHEVER IS GREATER.

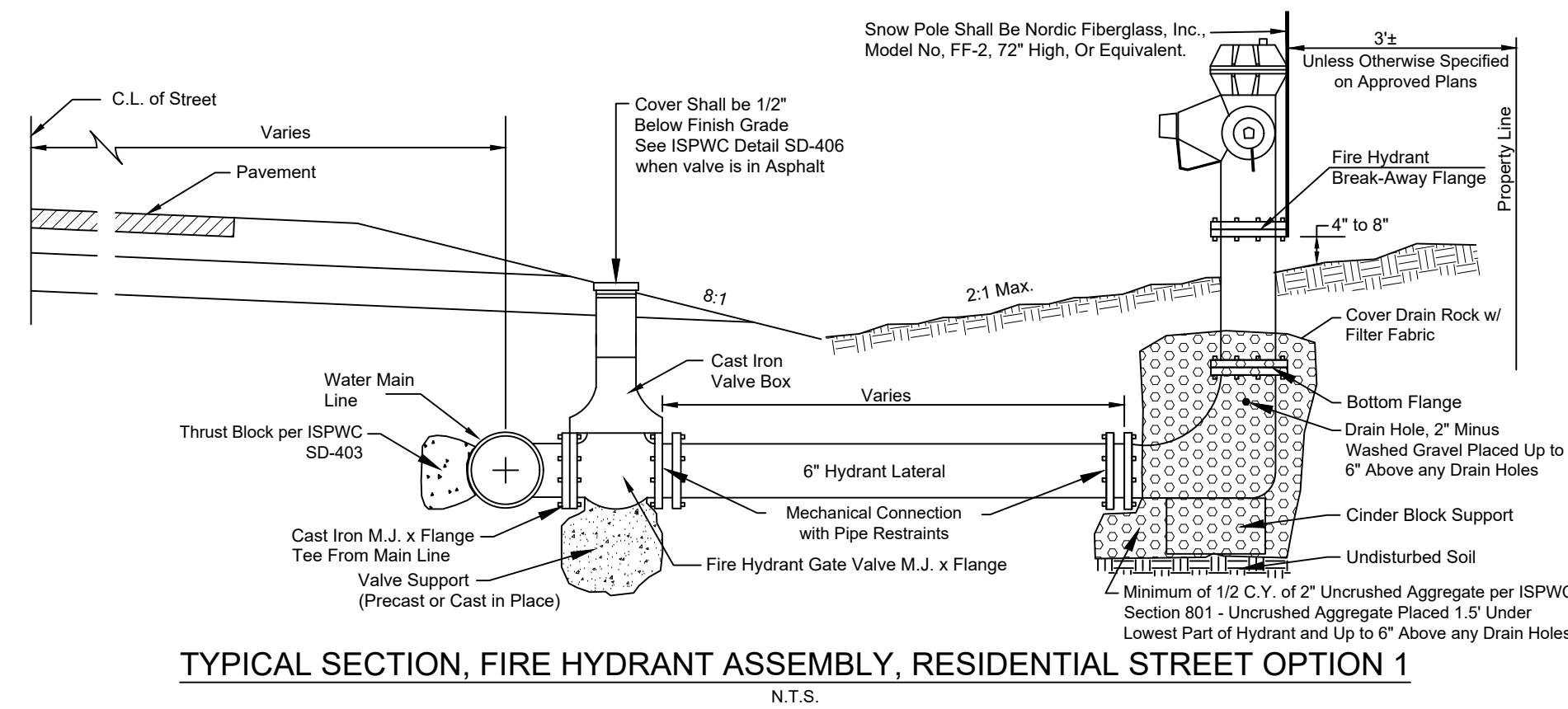
2 C1.2 THRUST BLOCK AND ANCHOR DETAILS
N.T.S.

WATER MAIN CONSTRUCTION NOTES

1. WATER MAIN AND SERVICE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE CITY OF HAILEY STANDARDS. NO WATER MAIN OR SERVICES SHALL BE BACKFILLED UNTIL THEY HAVE BEEN INSPECTED AND APPROVED BY THE CITY AND ENGINEER. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWENTY-FOUR (24) HOURS' NOTICE TO THE CITY AND ENGINEER PRIOR TO TESTING. REFER TO HAILEY CODE SECTION 18.10.010.
2. WATER MAINS LESS THAN 12" IN DIAMETER AND WATER SERVICES SHALL HAVE A MINIMUM COVER OF SIX FEET (6.0'), MEASURED FROM FINISHED GRADE. WATER MAINS GREATER THAN OR EQUAL TO 12" IN DIAMETER SHALL HAVE A MINIMUM COVER OF FIVE FEET (5.0'), MEASURED FROM FINISHED GRADE.
3. ALL 4" AND LARGER WATER MAINS SHALL BE CONSTRUCTED WITH AWWA C-900, CLASS 235 PVC PIPE. ALL WATER MAINS SHALL BE PRESSURE TESTED IN CONFORMANCE WITH ISPPWC SECTION 401.3.6 AND THE CITY OF HAILEY STANDARDS. TRACER WIRE SHALL BE NO. 12 GAUGE COPPER LOCATING WIRE INSULATED PER ISPPWC SECTION 401 AND THE CITY OF HAILEY SPECIFICATIONS.
4. SEE FLUSHING AND DISINFECTION REQUIREMENTS THIS SHEET. ALL BACTERIA TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER AND THE CITY OF HAILEY WATER AND SEWER DEPARTMENT FOR FINAL APPROVAL AND ACCEPTANCE PRIOR TO ACTIVATION OF THE WATER MAIN AND SERVICES.
5. ALL WATER DISTRIBUTION AND WATER SERVICE INSTALLATION MATERIALS AND CHEMICALS USED TO DISINFECT POTABLE WATER COMPONENTS MUST BE COMPLIANT WITH ANSI/NSF STANDARD 60/61. ALL MATERIALS MUST BE COMPLIANT WITH THE LOW LEAD RULE (<0.25%Pb BY WEIGHT).
6. ALL TEES, PLUGS, CAPS AND BENDS SHALL BE SECURED AND ANCHORED BY SUITABLE THRUST BLOCKING (MECHANICAL RESTRAINTS ARE NOT ALLOWED). THRUST BLOCKS SHALL CONFORM TO ISPPWC SD-403 AND THE CITY OF HAILEY STANDARDS.
7. ALL VALVES SHALL BE GATE VALVES WITH NON-RISING STEM, "O" RING SEALS, AND TWO-INCH OPERATING NUTS MEETING AWWA STANDARDS PER ISPPWC SECTION 402. ALL GATE VALVES LOCATED IN PAVEMENT SHALL BE FITTED WITH CAST IRON VALVE BOXES WITH CONCRETE COLLARS PER ISPPWC SD-408 AND THE CITY OF HAILEY SPECIFICATIONS.
8. ALL WATER MAIN FITTINGS SHALL BE DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF AWWA C-110 FOR 250 PSI WORKING PRESSURE. JOINTS ON BURIED VALVES SHALL BE MECHANICAL JOINTS UNLESS OTHERWISE NOTED. FLANGED JOINTS SHOULD IN GENERAL BE AVOIDED UNDERGROUND.
9. FIRE HYDRANTS SHALL CONFORM WITH THE CITY OF HAILEY STANDARDS.
10. ALL TAPPING SADDLES SHALL BE CONSTRUCTED FROM T-304 STAINLESS STEEL WITH ANSI/AWWA C-207 CLASS 150 FLANGES. ALL WELDS SHALL CONFORM TO ASTM A-380. THE TEST OUTLET SHALL BE 3/4" NPT WITH 3/4" NPT PLUG.
11. ALL WATER MAINS SHALL COMPLY WITH IDAPA 58.01.08.542.07.a AND IDAPA 58.01.08.542.07.b WHICH ADDRESS THE REQUIREMENTS FOR SEPARATION DISTANCES BETWEEN POTABLE WATER LINES (INCLUDING MAINS AND SERVICE LINES) WITH NON-POTABLE LINES (SEE ILLUSTRATION OF THESE SEPARATION REQUIREMENTS ON SHEET C2.4). IN ADDITION, WATER MAINS SHALL BE CONSTRUCTED WITH AT LEAST 25 FEET HORIZONTAL SEPARATION FROM INFILTRATION TRENCHES AND DRY WELLS.
12. ALL WATER SERVICES SHALL BE IN COMPLIANCE WITH ISPPWC SECTION 404 AND THE CITY OF HAILEY STANDARDS. A USC CPC APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA) SHALL BE INSTALLED ON PRIMARY SERVICE CONNECTIONS (INCLUDING FIRE SUPPRESSION SERVICES, IF APPLICABLE) IN ACCORDANCE WITH THE CITY OF HAILEY WATER DEPARTMENT, FIRE MARSHAL, PLUMBING BUREAU, AND STATE OF IDAHO BACKFLOW PREVENTION REQUIREMENTS. IN AREAS WHERE MULTIPLE WATER SERVICE LINES ARE IN SAME TRENCH SEPARATE LINES BY 6".
13. THE CONTRACTOR SHALL KEEP THE EXISTING WATER DISTRIBUTION SYSTEM LIVE, TO THE GREATEST EXTENT POSSIBLE, WHILE INSTALLING THE NEW WATER MAIN AND SERVICES MINIMIZING DISRUPTION TO EXISTING WATER SYSTEM USERS. THE NEW WATER MAIN AND SERVICES SHALL BE INSTALLED, BACKFILLED, PRESSURE TESTED AND DISINFECTED AND FLUSHED PRIOR TO CONNECTING THE NEW MAIN TO THE EXISTING MAIN. THE MAXIMUM ALLOWABLE SERVICE OUTAGE FOR ANY SHUTDOWN IS 4 HOURS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMPTLY REMOVING AND DISPOSING OF WATER ENTERING THE TRENCH DURING THE TIME THE TRENCH IS BEING PREPARED FOR INSTALLATION OF THE UTILITY, INCLUDING COMPLETION OF BACKFILL OF THE PIPE ZONE, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL DISPOSE OF THE WATER IN A SUITABLE MANNER WITHOUT CAUSING DAMAGE TO PROPERTY.
15. EXTRA FITTINGS MAY BE NECESSARY IN ADDITION TO THOSE SHOWN HEREON TO CONTROL ELEVATION AND AVOID UNDERGROUND CONFLICTS.

FLUSHING AND DISINFECTION

- A. FLUSHING PRIOR TO DISINFECTION**
1. BEFORE CHLORINATION, FLUSH THE MAINS THOROUGHLY AFTER THE PRESSURE AND LEAKAGE TEST ARE COMPLETE.
 2. USE A MINIMUM FLUSHING VELOCITY IN THE MAIN OF 2.5 FEET/SECOND.
 3. IF NO HYDRANT IS INSTALLED AT THE END OF THE MAIN, PROVIDE A TAP OF THE SIZE SUFFICIENT TO PRODUCE A VELOCITY IN THE MAIN OF AT LEAST 2.5 FEET/SECOND.
 4. TABLE 1 SHOWS THE RATES OF FLOW REQUIRED TO PRODUCE A VELOCITY OF 2.5 FEET/SECOND IN VARIOUS SIZE PIPES.
 5. EXERCISE EXTREME CARE AND CONDUCT A THOROUGH INSPECTION DURING THE WATER MAIN LAYING TO PREVENT AND DETECT SMALL STONES, PIECES OF CONCRETE, PARTICLES OF MATERIAL, OR OTHER FOREIGN MATERIAL THAT MAY HAVE ENTERED THE MAINS.
 6. CLEAN LARGE MATERIAL BY FLUSHING AND INSPECTING ALL HYDRANTS ON THE LINES TO ENSURE THAT THE ENTIRE VALVE OPERATING MECHANISM OF EACH HYDRANT IS IN GOOD CONDITION.
- B. DISINFECTION OF WATER PIPES**
1. GENERAL
 - a. COMPLY WITH ANSI/AWWA C 651: DISINFECTING WATER MAINS, THESE SPECIFICATIONS, AND ENGINEER'S DIRECTION.
 - b. KEEP THE INTERIOR OF ALL PIPE, FITTINGS AND APPURTENANCES FREE FROM DIRT, HEAVY AND FOREIGN PARTICLES.
 - c. DISINFECT ALL WATER PIPES AND APPURTENANCES PRIOR TO PLACING IN SERVICE.
 2. FORM OF CHLORINE USED TO BE PRE-APPROVED BY THE ENGINEER.
 - a. LIQUID CHLORINE:
 - 1) FORM: LIQUID CONTAINING 100% AVAILABLE CHLORINE UNDER PRESSURE IN STEEL CONTAINERS.
 - 2) STANDARD: ANSI/AWWA B 301.
 - 3) EXECUTION: USED ONLY BY TRAINED PERSONNEL WITH APPROPRIATE GAS-FLOW CHLORINATORS AND EJECTORS.
 - 4) AUTHORIZATION: ONLY WITH WRITTEN AUTHORIZATION OF THE ENGINEER.
 - b. SODIUM HYPOCHLORITE.
 - 1) FORM: LIQUID CONTAINING APPROXIMATELY 5% TO 15% AVAILABLE CHLORINE.
 - 2) STANDARD: ANSI/AWWA B 300.
 - c. CALCIUM HYPOCHLORITE.
 - 1) FORM: GRANULAR OR IN 5G TABLETS CONTAINING APPROXIMATELY 65% AVAILABLE CHLORINE BY WEIGHT.
 - 2) STANDARD: ANSI/AWWA B 300.
 3. METHODS OF CHLORINATION USED TO BE PRE-APPROVED BY THE ENGINEER.
 - a. TABLET OR GRANULE METHOD.
 - 1) SOLUTION STRENGTH: 25 MG/L MINIMUM.
 - 2) USE: ONLY IF THE PIPES AND APPURTENANCES ARE KEPT CLEAN AND DRY DURING CONSTRUCTION. DO NOT USE SOLVENT WELDED PLASTIC OR SREWED JOINT STEEL PIPE.
 - 3) PLACEMENT WHEN USING GRANULES: DURING CONSTRUCTION, PLACE CALCIUM HYPOCHLORITE GRANULES AT THE UPSTREAM END OF EACH BRANCH MAIN, AND AT 500-FOOT INTERVALS.
 - 4) GRANULAR QUANTITY: REFER TO TABLE 2
 - 5) PLACEMENT WHEN USING TABLETS: DURING CONSTRUCTION, PLACE 5G CALCIUM HYPOCHLORITE TABLETS IN EACH SECTION OF PIPE AND ALSO PLACE ONE TABLET IN EACH HYDRANT, HYDRANT BRANCH AND OTHER APPURTENANCES. ATTACH TABLETS TO THE INSIDE OF THE PIPE USING AN ADHESIVE SUCH AS PERMATEX NO. 2 OR APPROVED SUBSTITUTION. ASSURE NO ADHESIVE IS ON THE TABLET EXCEPT ON THE BROAD SIDE ATTACHED TO THE SURFACE OF THE PIPE. ATTACH ALL THE TABLETS AT THE INSIDE TIP OF THE MAIN, WITH APPROXIMATELY EQUAL NUMBERS OF TABLETS AT EACH END OF A GIVEN PIPE LENGTH. IF THE TABLES ARE ATTACHED BEFORE THE PIPE SECTION IS PLACED IN THE TRENCH, MARK THEIR POSITION ON THE SECTION SO IT CAN BE READILY DETERMINED THAT THE PIPE IS INSTALLED WITH THE TABLES AT THE TOP.
 - 6) TABLET QUANTITY: REFER TO TABLE 3
 - (1) ADJUST FOR PIPE LENGTH OTHER THAN 18 FEET.
 - (2) BASED ON 3.25G AVAILABLE CHLORINE PER TABLET.
 - 7) FILLING PROCEDURE: WHEN GRANULE OR TABLET INSTALLATION HAS BEEN COMPLETED, FILL THE MAIN WITH CLEAN WATER AT A VELOCITY NOT EXCEEDING 1 FPS. TAKE PRECAUTIONS TO ASSURE THAT AIR POCKETS ARE ELIMINATED. LEAVE THIS WATER IN THE PIPE FOR AT LEAST 24 HOURS. IF THE WATER TEMPERATURE IS LESS THAN 41° F, LEAVE THE WATER IN THE PIPE FOR AT LEAST 48 HOURS. POSITION VALVE SO THAT THE CHLORINE SOLUTION IN THE MAIN BEING TREATED WILL NOT FLOW INTO WATER MAINS IN ACTIVE SERVICE.
 - b. CONTINUOUS FEED METHOD.
 - 1) SOLUTION STRENGTH: DOSE AT 25 MG/L FOR 4 HOURS.
 - 2) RESIDUAL: 10 MG/L AT 24 HOURS.
 - 3) DOSING METHODS:
 - a) LIQUID CHLORINE: SOLUTION FEED VACUUM-OPERATED CHLORINATOR IN COMBINATION WITH A BOOSTER PUMP.
 - b) DIRECT FEED: NOT ALLOWED.
 - c) HYPOCHLORITE SOLUTION: CHEMICAL FEED PUMP DESIGNED FOR FEEDING CHLORINE SOLUTIONS.
 - d) CALCIUM HYPOCHLORITE GRANULES: REFER TO PREVIOUS SECTION.
 - 4) FILLING PROCEDURE: USE APPROVED SOURCE TO FLOW CLEAN WATER AT A CONSTANT, MEASURED RATE INTO THE NEWLY LAID WATER MAIN. FILL AT A POINT NOT MORE THAN 10 FEET DOWNSTREAM FROM THE BEGINNING OF THE NEW MAIN. MEASURE THE CHLORINE CONCENTRATION AT REGULAR INTERVALS AND ENSURE A 25 MG/L DOES. POSITION VALVES SO THAT THE CHLORINE SOLUTION IN THE MAIN BEING TREATED DOES NOT FLOW INTO WATER MAINS IN ACTIVE SERVICE. DO NOT STOP CHLORINE APPLICATION UNTIL THE ENTIRE MAIN IS FILLED WITH CHLORINATED WATER. RETAIN THE CHLORINATED WATER FLOWS PAST FITTINGS AND VALVES, OPERATE VALVES AND HYDRANTS TO DISINFECT APPURTENANCES AND PIPE BRANCHES.
 - c. SLUG METHOD.
 - 1) SOLUTION STRENGTH: 100 MG/L.
 - 2) DOSING METHODS: PER ENGINEER'S DIRECTION.
 - 3) FILLING PROCEDURE: USE APPROVED SOURCE TO FLOW CLEAN WATER AT A CONSTANT, MEASURED RATE INTO THE NEWLY LAID WATER MAIN. FILL AT A POINT NOT MORE THAN 10 FEET DOWNSTREAM FROM THE BEGINNING OF THE NEW MAIN. MEASURE CONCENTRATION AT REGULAR INTERVALS TO ENSURE 100 MG/L DOSE APPLY THE CHLORINE CONTINUOUSLY AND FOR THE TIME REQUIRED TO DEVELOP A SOLID COLUMN OR 'SLUG' OF CHLORINATED WATER THAT WILL, AS IT MOVES THROUGH THE MAIN, EXPOSE ALL INTERIOR SURFACES TO A 100 MG/L FOR AT LEAST 3 HOURS. MEASURE THE CHLORINE RESIDUAL IN THE SLUG AS IT MOVES THROUGH THE MAIN. IF AT ANY TIME IT DROPS BELOW 50 MG/L, STOP FLOW AND RELOCATE CHLORINATION EQUIPMENT AT THE HEAD OF THE SLUG. AND AS FLOW IS RESUMED, ADD CHLORINE TO RESTORE THE FREE CHLORINE IN THE SLUG TO NOT LESS THAN 100 MG/L. AS THE CHLORINATED WATER FLOWS PAST FITTINGS AND VALVES, OPERATE VALVES AND HYDRANTS TO DISINFECT APPURTENANCES AND PIPE BRANCHES.
- C. FINAL FLUSHING.**
1. AFTER THE RETENTION PERIOD, FLUSH THE CHLORINATED WATER FROM THE MAIN UNTIL CHLORINE MEASUREMENTS SHOW THAT THE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT IN THE SYSTEM, OR IS ACCEPTABLE FOR DOMESTIC USE.
 2. DISPOSAL OF FLUSHING WATER TO BE DONE IN A MANNER SO THAT IT DOES NOT:
 - a. REACH SURFACE WATERS OR WATERS OF THE STATE
 - b. DAMAGE SUBSURFACE STRUCTURES
 - c. TAKE PLACE DURING PERIODS WHEN THE AMBIENT TEMPERATURE IS ABOVE 85° WITHOUT PRIOR APPROVAL OF THE ENGINEER
 3. IF WATER CAN NOT BE RETAINED ON SITE AND IF IT IS NOT ALLOWED TO ENTER THE SANITARY SEWER COLLECTION SYSTEM, WATER SHALL BE DECHLORINATED TO HAVE A MAXIMUM AVAILABLE CHLORINE CONCENTRATION OF 0.13 MG/L AND THE APPROPRIATE PRIVATE, FEDERAL AND STATE DISCHARGE AND DISPOSAL APPROVALS SHALL BE ACQUIRED PRIOR TO COMMENCEMENT OF FLUSHING ACTIVITIES. SHOULD THERE BE A POTENTIAL FOR THE GROUNDWATER RULE TO BE VIOLATED AS A RESULT OF A CHLORINATED DISCHARGE THE ENGINEER SHALL COORDINATE DISPOSAL WITH REGIONAL DEQ STAFF PRIOR TO FLUSHING.
- D. BACTERIOLOGICAL TESTS.**
1. AFTER FINAL FLUSHING AND BEFORE THE WATER MAIN IS PLACED IN SERVICE, TEST SAMPLES COLLECTED FROM THE MAIN(S) FOR COLIFORM BACTERIA. TAKE 2 SAMPLES FROM EACH LOCATION AT LEAST 24 HOURS APART.
 2. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, COLLECT SAMPLES FROM EACH 1,200 FEET ON THE NEW MAIN AND ONE FROM EACH BRANCH.
- E. REDISINFECTION.**
1. IF THE INITIAL DISINFECTION FAILS TO PRODUCE APPROVED BACTERIOLOGICAL SAMPLES, REFLUSH AND RESAMPLE THE MAIN.
 2. IF CHECK SAMPLES SHOW BACTERIAL CONTAMINATION, RE-CHLORINATE THE MAIN UNTIL APPROVED RESULTS ARE OBTAINED.
- F. SWABBING.**
1. IF CONNECTIONS ARE NOT DISINFECTED ALONG WITH THE NEWLY INSTALLED MAIN, SWAB OR SPRAY THE INTERIOR OF ALL PIPES AND FITTINGS USED IN MAKING THE CONNECTIONS WITH A 1% HYPOCHLORITE SOLUTION BEFORE INSTALLATION.



- NOTES**
1. Hydrants shall have a 6' foot bury.
 2. Hydrants shall be Waterloo Pacer Model WB-67U-250 or Mueller Super Centurion 250 and conform to the following:
 - Traffic "breakaway" design
 - 250 PSI rated
 - UL Listed
 - Main valve size 5-1/4"
 3. Mechanical Restraints shall be used. Restraints shall be Romac Industries RomaGrip or approved equivalent. No lug or set screw type restraints are to be used on PVC pipe.
 4. City shall approve location and elevation of all Fire Hydrants. Fire Hydrants shall be located at street intersections and at a minimum spacing of 500 feet in residential zones and 450 feet in business and industrial zones. No obstructions shall be placed within 3 feet of the back and 15 feet of the sides and front of Fire Hydrants.
 5. Auxiliary Gate Valve shall meet AWWA C509 (Total rubber encapsulated, resilient seat, watertight series or approved equal).
 6. Valve Box shall be Tyler 684A or approved equal.
 7. Hydrant break away flange elevation equal to street centerline or 4" to 8" above finished grade as approved.
 8. Fire hydrant assemblies located on the opposite side of the roadway from the watermain shall have 2" Dow Board installed over the pipeline leading to the hydrant. The Dow Board shall extend from auxiliary gate valve to the hydrant.
- HYDRANT VEHICULAR PROTECTION**
Fire hydrants which may be exposed to vehicular damage or obstruction shall have an approved array of bollards or guard post installed to protect them from damage and maintain the minimum distance required for proper operation.
- When they are installed, they shall be:
- Constructed of steel not less than (4) inches in diameter and concrete filled.
 - Spaced not more than four (4) feet between posts on center.
 - Set not less than three (3) feet deep in a concrete footing not less than (15) inches in diameter.
 - Set with the top of the posts not less than (3) feet above the ground.
 - The post shall be painted bright red, reflective markings are recommended.
 - Located at least three feet from any portion of the hydrant and located so as not to create an obstruction to its use.

3 C1.2 CITY OF HAILEY FIRE HYDRANT DETAIL (18.14.010.B.1)
N.T.S.

**QUIGLEY ROAD WATER MAIN IMPROVEMENTS
DETAIL AND NOTES SHEET**

LOCATED WITHIN SECTION 10, T.2 N., R.18 E., B.M., CITY OF HAILEY, BLAINE COUNTY, IDAHO
PREPARED FOR CITY OF HAILEY

ORIGINAL SIGNED BY
SAMANTHA STAHLNECKER
DATE ORIGINAL SIGNED:
06/09/2021

PROFESSIONAL ENGINEER
LICENSED
1768
06/09/21
STATE OF IDAHO
SAMANTHA STAHLNECKER

ORIGINAL ON FILE AT
OFFICE OF GALENA
ENGINEERING
(HAILEY, ID)

DESIGNED BY
CT
DRAWN BY
SKS
CHECKED BY

**GALENA
ENGINEERING, INC.**
Civil Engineers & Land Surveyors
317 N. River Street
Hailey, Idaho 83433
(208) 768-1705
email@galena-engineering.com

PURPOSE: ISSUE FOR D.E.Q. APPROVAL (06/03/2021)

NO.	DATE	BY	REVISIONS
1	06/09/21	SKS	ADD FIRE HYDRANT