Welcome to tonight's City Council meeting!

The elected officials of the City of Bonners Ferry are appreciative of an involved constituency. Testimony from the public is encouraged concerning issues when addressed under the Public Hearing portion of the agenda. Any individual who wishes may address the council on any issue, whether on the agenda or not, during the Public Comments period. Normal business will preclude public participation during the business portion of the meeting with the discretion left to the Mayor and Council.

Vision Statement

Bonners Ferry, "The Friendliest City", strives to achieve balanced growth, builds on community strengths, respects natural resources, promotes excellence in Government, and values quality of life.

AGENDA
CITY COUNCIL MEETING
Bonners Ferry City Hall
7232 Main Street
267-3105
February 4, 2014
3:00 p.m. Workshop with Idaho Transportation Department to Discuss Highway 95
7:00 p.m. Regular Meeting

PLEDGE OF ALLEGIANCE

PUBLIC HEARING

PUBLIC COMMENTS

Each speaker will be allowed a maximum of five minutes, unless repeat testimony is requested by the Mayor/Council

GUESTS

Greg Cook – Panhandle Area Council Presentation

REPORTS

Police/Fire/City Administrator/Economic Development Coordinator/Urban Renewal District

CONSENT AGENDA

1. Call to Order/Roll Call
2. Approval of Bills and Payroll
3. Treasurer's Report
4. Approval of January 7, 2014 and January 21, 2014 Regular Council Meeting Minutes and Approval of January 27, 2014 Special Council Meeting Minutes

OLD BUSINESS

NEW BUSINESS

5. City – Discuss Langford Proposed Residence (attachment)
6. ~~City – Approve Swish Basketball Tournament Special Event Permit on July 11-12, 2014~~ (attachment)
7. City – First Reading of Ordinance Amending Title 5, Chapter 3, Article B of Bonners Ferry City Code Pertaining to Dogs (attachment)
8. Street – Discuss Augusta Street Sidewalk and Drainage Project and Grant Match

9. Electric – Approve Purchase of Bucket Truck (attachment)
10. Fire – Discuss Ambulance Proposed Lease for Using the Fire Hall
11. Golf – Discuss Prorated Cart Shed Leases (attachment)
12. Water/Sewer – Authorization to Re-bid Hazel Street Water Line/Sewer Line Project (attachment)

EXECUTIVE SESSION PURSUANT TO IDAHO CODE 67-2345, SUBSECTION 1

(a) Consider hiring a public officer, employee, staff member or individual agent.
(b) Consider the evaluation, dismissal or disciplining of, or to hear complaints or charges brought against, a public officer, employee, staff member or individual agent, or public school student.
(c) Conduct deliberations concerning labor negotiations or to acquire an interest in real property which is not owned by a public agency.
(d) Consider records that are exempt from disclosure as provided in chapter 3, title 9, Idaho Code.
(e) Consider preliminary negotiations involving matters of trade or commerce in which the governing body is in competition with governing bodies in other states or nations.
(f) Communicate with legal counsel for the public agency to discuss the legal ramifications of and legal options for pending litigation, or controversies not yet being litigated but imminently likely to be litigated.
(g) Engage in communications with a representative of the public agency's risk manager or insurance provider to discuss the adjustment of a pending claim or prevention of a claim imminently likely to be filed.

ADJOURNMENT

NEXT MEETING DATE

INFORMATION

13. Electric/Sewer – Claim for Damage (attachment)

MEMO

OFFICE OF THE CITY ATTORNEY

Date: January 27, 2014

To: Stephen Boorman, City Administrator

From: Andrakay Pluid, City Attorney

RE: Langford Proposal

Stephen,

I have reviewed the Langford proposal you provided to me (attached hereto). As you cited, our city ordinance reads as follows with regards to Manufactured Homes:

> **11-9-6: MANUFACTURED/MOBILE HOME SITING STANDARDS:**
>
> In all areas within the corporate limits wherein this code permits the location, occupation and use of single-family dwellings, manufactured and mobile homes meeting or exceeding the following specifications will be a permitted and authorized use subject to the following restrictions on the placement of said homes:
>
> A. Manufactured homes shall be multisectional enclosing a space of not less than one thousand (1,000) square feet and when assembled on site, they shall not be less than twenty feet (20') both in length and width. They shall also either have been certified as having been constructed in accordance with the standards for certification of manufactured/mobile homes by the U.S. department of housing and urban development and manufactured/mobile home construction and safety standards, or if manufactured prior to June 15, 1976, have received a certificate of compliance from the administrator of the division of building safety of the state of Idaho that the structure meets the rehabilitation requirements of Idaho Code title 44, chapter 25.

The issue with the Langford's request as I understand it is that the manufactured home they wish to use, as it exists, is only 70' x 14'—6 feet under the size requirement per the code section above. Their proposal is to build an addition on to the manufactured home that would be 16' x 58', thus bringing the total size of the completed residence within the size requirements.

My opinion on this issue is that, from a legal standpoint, the City may reject their request as the proposed mobile home does not meet the size requirement. If they were to complete the addition as proposed, the home would theoretically be acceptable; however, the code section does not contemplate such an option. The concern with allowing the proposal would be if the Langfords did not bring the project to fruition, thus installing a manufactured home that is not "up to code" while essentially having City "approval" to do so. If that did happen the City would have no recourse as I see it to enforce the building of the promised addition.

Perhaps the best course of action would be to have the Langfords formally request an exception to the requirement before Council or Planning and Zoning. However, my opinion is that under the black letter law, their manufactured home does not comply with the City ordinance and the risk that they would not bring it up to the size requirement makes me wary to recommend such an exception in their case given the precedence setting potential.

Sincerely,

Andrakay Pluid

MEMO

CITY OF BONNERS FERRY
CITY ADMINISTRATOR

Date: 15 January 2014
To: Ms. Andrakay Pluid, City Attorney
From: Stephen Boorman, City Administrator
Subject: Casey and Rachel Langford Proposed Residence.

We have been asked by the Langford's our position regarding the Subject proposal. (attached)

Our city ordinance reads as follows:

11-9-6: MANUFACTURED/MOBILE HOME SITING STANDARDS:
In all areas within the corporate limits wherein this code permits the location, occupation and use of single-family dwellings, manufactured and mobile homes meeting or exceeding the following specifications will be a permitted and authorized use subject to the following restrictions on the placement of said homes:

A. Manufactured homes shall be multisectional enclosing a space of not less than one thousand (1,000) square feet and when assembled on site, they shall not be less than twenty feet (20') both in length and width. They shall also either have been certified as having been constructed in accordance with the standards for certification of manufactured/mobile homes by the U.S. department of housing and urban development and manufactured/mobile home construction and safety standards, or if manufactured prior to June 15, 1976, have received a certificate of compliance from the administrator of the division of building safety of the state of Idaho that the structure meets the rehabilitation requirements of Idaho Code title 44, chapter 25.

The Subject Proposal is to install a 2005 mobile home, that meets the 50 pound snow load requirement, on a parcel on Hazel Street with an addition. The addition would result in residence that exceeds the 20' length/width requirement.

To the best of my knowledge this is not a question we have answered before and it is setting a precedence we need to be aware of. Therefore, if you could provide an opinion on this it would be helpful.

We also should consider what actions the City would need to take if the mobile home is sited and then addition is not completed.

Thanks

SJB

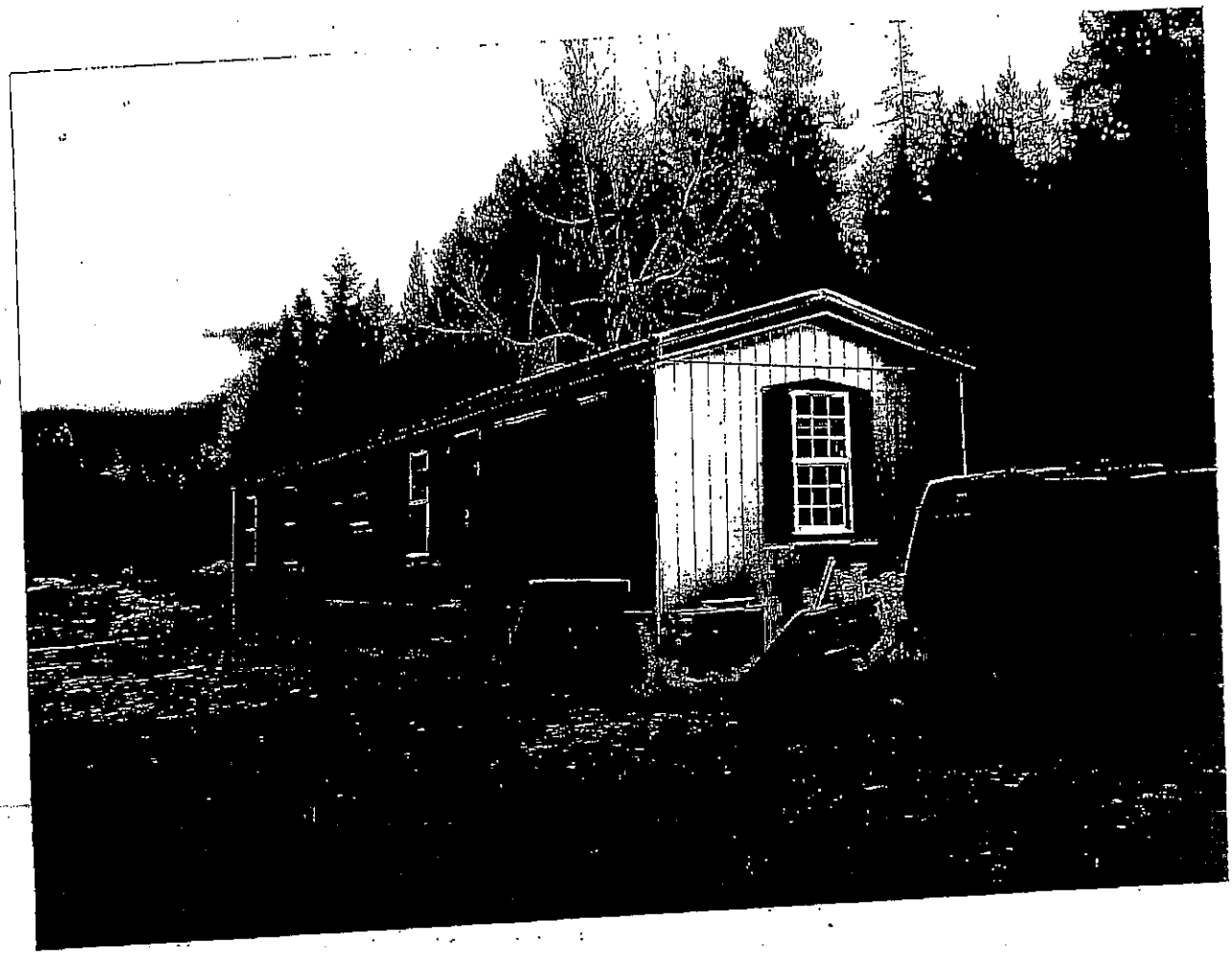
Casey and Rachel Langford
627-8704
627-8911

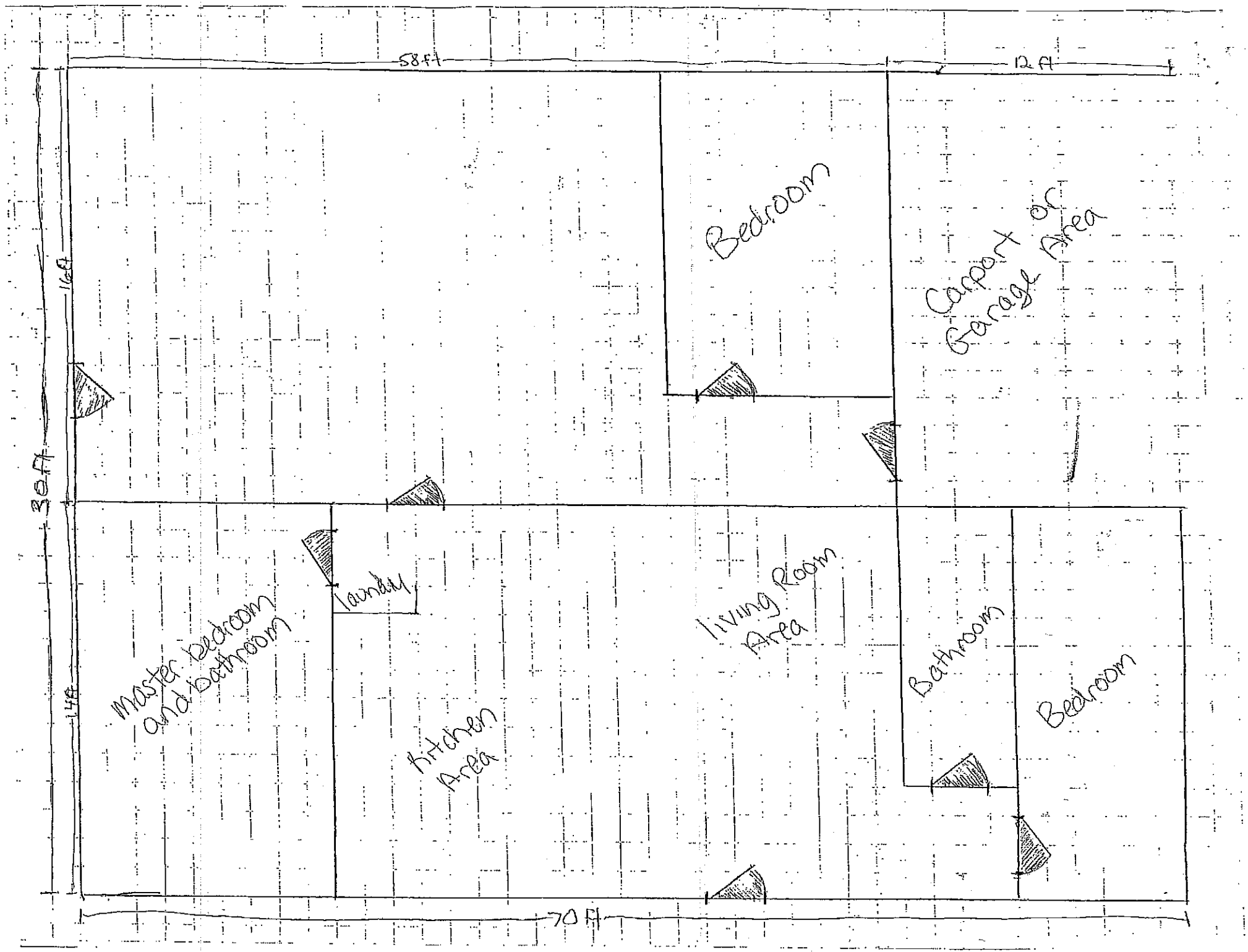
Po Box 932
Bonners Ferry, Id 83805

2005 mobile home 50lb snow load
70 x 14 roof

Addition 16 x 58

Address location Hazel Street
Ralph Langfords property




58 ft
12 ft
16 ft
30 ft
14 ft
70 ft
Bedroom
Carport or Garage Area
laundry
Master bedroom and bathroom
Kitchen Area
living Room Area
Bathroom
Bedroom

CITY OF BONNERS FERRY, IDAHO
APPLICATION FOR CITY SPECIAL EVENT PERMIT
(REQUIRED UNDER ORDINANCE NO. 468)

Date of Application: January 8th

License Issued to: Boundary County Parks + Recreation

Business Name:

Mailing Address: P.O. Box 3044

Physical Address: 7171 5th St.

Phone Number: 208-304-3603

Type of Event: Swish 3on3 Basketball Tournament

Dates of Event: July 12th

Location of Event: Downtown Main St.

Time of Event: July 11th → Set up 6:00 pm thru July 12th 8:00 pm

By application, the applicant shall, waive, indemnify, and hold harmless the City of Bonners Ferry, its agents, its employees and authorized volunteers from and against all claims, damages, losses and expenses, including attorneys' fees, arising out of the permitted activity or the conduct of applicant's operation of the event if such claim (1) is attributed to personal injury, bodily injury, disease or death, or to injury or to destruction of property, including the loss of use there from, and (2) is not caused by any gross negligent act or omission or willful misconduct of the City of Bonners Ferry or its employees acting within the scope of their employment.

The following requirements must be met:

A. If sponsored by a local resident, entity or group, a signed copy of licensee's contract with the local sponsor.
B. Evidence of at least one million dollars ($1,000,000.00) combined single limit liability insurance that names the City as co-insured.
C. A clean-up fee of one hundred dollars ($100.00); all, some or none of which will be returned upon recommendation of the Chief of Police after his inspection of the premises after the organization has left the premises and their permit expired. The foregoing fee is subject to change from time to time by resolution of Council.

Fees and proof of insurance must be provided to the City of Bonners Ferry prior to the event.

Authorized Signature for Applicant: Anne Tompkins

Printed Name: Anne Tompkins

Office/Title: Sports Director

Office Use:

Fee Paid: $135 Date: 1-13-14 Receipt No. 11496-31

Approved By: Date:

ORDINANCE NO. _____

AN ORDINANCE OF THE CITY OF BONNERS FERRY, A MUNICIPAL CORPORATION OF THE STATE OF IDAHO, AMENDING VARIOUS SECTIONS WITHIN BONNERS FERRY CITY CODE TITLE FIVE, CHAPTER THREE, ARTICLE B, PERTAINING TO CONTROL OF DOGS IN THE CITY LIMITS; AMENDING THE DEFINITION OF "DOG" SET FORTH IN SECTION 5-3B-1; AMENDING SECTION 5-3B-5 PERTAINING TO THE PROSECUTION OF THE CRIME OF DOGS RUNNING AT LARGE; AMENDING SECTION 5-3B-6 SUBSECTION A, CONCERNING THE DEFINITION OF A NUISANCE DOG; AMENDING SECTION 5-3B-6 SUBSECTION D, CONCERNING THE PENALTIES AND IMPOUND FEES FOR NUISANCE DOGS; AMENDING SECTION 5-3B-8 CONCERNING THE PENALTY FOR UNLICENSED DOGS; AMENDING SECTION 5-3B-11 CONCERNING POSSESSION OF A VICIOUS ANIMAL; PROVIDING SEVERABILITY; PROVIDING THAT THIS ORDINANCE SHALL BE IN FULL FORCE AND EFFECT FROM AND AFTER ITS PASSAGE, APPROVAL AND PUBLICATION ACCORDING TO LAW.

WHEREAS, the Mayor and City Council have deemed it in the public interest to amend the ordinance pertaining to the control of dogs in the city limits of the City of Bonners Ferry including amending the definition of "dog" within Bonners Ferry City Code Title Five, Chapter Three, Article B, Section One; to amend subsection A and delete subsection B of Bonners Ferry City Code Title Five, Chapter Three, Article B, Section Five, concerning prosecution of the crime of dogs running at large in order to eliminate conflict with Idaho State Code; to amend the definition of a nuisance dog in subsection A of Bonners Ferry City Code Title Five, Chapter Three, Article B, Section Six, in order to eliminate conflict with Idaho State Code; to amend subsection D of Bonners Ferry City Code Title Five, Chapter Three, Article B, Section Six, to adjust and clarify the penalties and impound fees for nuisance dogs; to amend Bonners Ferry City Code Title Five, Chapter Three, Article B, Section Eight, to establish an infraction offense with a set penalty for unlicensed dogs; and to amend subsection A of Bonners Ferry City Code Title Five, Chapter Three, Article B, Section Eleven, to provide for prosecution of the possession of a vicious animal under Idaho Code.

NOW THEREFORE, Be it ordained by the Mayor and the Council of the City of Bonners Ferry, Idaho, as follows:

Section 1: That Bonners Ferry City Code Section 5-3B-1 is hereby amended as follows:

DOG: Any dog whose owner resides within the incorporated limits of the city or any dog which enters the city limits.

Section 2: That Bonners Ferry City Code Section 5-3B-5 is hereby amended as follows:

RUNNING AT LARGE:

~~A. Infraction:~~ No dog shall be allowed to run at large within the city limits~~ and the owner of such dog shall be guilty of an infraction~~. Any violation of this section shall be prosecuted in accordance with Idaho Code § 25-2805, DOGS RUNNING AT LARGE.

~~B. Misdemeanor: No female dog in time of heat, vicious or mad dog shall be permitted to run at large within the city limits, and the owner of such dog shall be guilty of a misdemeanor.~~

Section 3: That Bonners Ferry City Code Section 5-3B-6 is hereby amended as follows:

A. Nuisance Defined: A dog is a "nuisance" if it~~:~~ incessantly barks so as to cause a disturbance.

~~1. Chases cars or becomes a hazard to the driving public;~~

~~2. Damages private or public property by thereon digging, defecating, urinating, burying, breaking, tramping or getting into garbage cans;~~

~~3. Bites any person;~~

~~4. Incessantly barks so as to cause a disturbance; or~~

~~5. Is on school grounds during school hours.~~

D. Penalty:

1. First Offense: Any owner convicted of having a dog or dogs that is or are a nuisance shall be ~~fined a sum not to be less than fifteen dollars ($15.00) for a first offense;~~ guilty of an infraction and fined $50.00 for a first offense.

2. Second Offense: Any owner convicted of having a dog or dogs that is or are a nuisance shall be ~~fined a sum not to be less than thirty dollars ($30.00) for a second offense;~~ guilty of an infraction and fined $100.00 for a second offense.

3. Third And Subsequent Offenses: Any owner convicted of having a dog or dogs that is or are a nuisance shall be ~~fined a sum not to be less than fifty dollars ($50.00) for a third offense, and one hundred twenty dollars ($120.00) for each offense thereafter.~~ guilty of a misdemeanor and may be fined up to $300 dollars, plus any court costs associated with the prosecution of said offense.

4. Impound Fees: The owner convicted of having a dog or dogs that is or are a nuisance shall pay an impound fee if the dog is impounded of twenty dollars ($20.00) ~~with a maximum limit being a sum that, the maximum sum of fine plus impound fee does not exceed a total of three hundred dollars ($300.00)~~ per offense.

Section 4: That Bonners Ferry City Code Section 5-3B-8 is hereby amended as follows:

UNLICENSED DOGS; PENALTY~~; DISPOSAL~~:

Any person neglecting or refusing to take out a license for any dog or dogs owned or harbored by him shall be guilty of a separate infraction with a penalty of $50.00 for each dog which is unlicensed in a license fee period from January 1 through December 31. A person may be cited under this provision for each license fee period in which he neglects or refuses to obtain a license

for each dog. ~~is hereby required to catch and deliver such dog or dogs to the police chief or any other officer detailed therefor, and said officer shall cause the dog to be killed or otherwise disposed of in a humane manner. Any person neglecting or refusing to take out a license for such dog or to catch and deliver such dog to the police chief, or other officer detailed therefor, within twenty four (24) hours after having been notified so to do shall be guilty of a misdemeanor.~~

Section 5: That Bonners Ferry City Code Section 5-3B-11 is hereby amended as follows:

A. Vicious Animal: Any person owning or having custody of any vicious animal is guilty of a misdemeanor if, as a result of that person's failure to exercise reasonable care, the animal injures any other person or animal engaged in lawful activities. The owner shall be prosecuted in accordance with Idaho Code § 25-2805(2). This does not apply to military or police dogs actively engaged in the pursuit of their official duties.

Section 6: PROVISIONS SEVERABLE: The provisions of this Ordinance are hereby declared to be severable and if any provision of this Ordinance or application of such provision to any person or circumstance is declared invalid for any reason, such declaration shall not affect the validity of remaining portions of this Ordinance.

Section 7: EFFECTIVE DATE: This ordinance shall be effective upon its passage and publication in the manner provided by law.

APPROVED by the Mayor and City Council of the City of Bonners Ferry this _____ day of _____, 2014.

CITY OF BONNERS FERRY, IDAHO

BY: _____
Mayor

Attest:

_____
Clerk, City of Bonners Ferry

MEMO

CITY OF BONNERS FERRY
CITY ADMINISTRATOR

Date: 30 January 2014
To: City Council
From: Stephen Boorman, City Administrator
Subject: Bucket Truck Replacement.

This memo is to request authorization to purchase a new bucket truck for the Electric Department. This is the truck the Council authorized going out for bid on last fall. We have found a truck that meets our requirements under a GSA bid.

The quoted price of this truck is $132,169. The expected delivery date is after October 1st of this year so it would be in Fiscal Year 2015.

SJB

January 28, 2014
Our 85th Year

STEPHEN BOORMAN

CITY OF BONNERS FERRY
PO BOX 149
BONNERS FERRY, ID 83805-0000
US

Bill To:
CITY OF BONNERS FERRY
PO BOX 149
BONNERS FERRY, ID 83805-0000
United States

Altec Quotation Number 242346 - 1
Account Manager: Mike Mattson
Inside Sales Rep: Mark Floyd Jarrell

Altec Sales Order(s):

Item	Description	Qty	Price
	Unit		
1.	Altec Model AT40M Articulating Telescopic Aerial Device with a fiberglass upper boom and fiberglass insulator in the articulating arm and a proportional joystick upper control and toggle switches. Built in accordance to ALTEC's standard specifications and to include the following features:	1	

A. Ground to Bottom of Platform Height: 39.4 ft at 10.0 ft from centerline of rotation (12 m at 3 m)
B. Working Height: 44.4 ft (13.5 m)
C. Maximum reach to edge of platform: 29.6 ft at 16.3 ft platform height (9 m at 5 m)
D. Rotation: Continuous
E. Articulating Arm Articulation: -3 to 74 degrees. Insulator provides a minimum of 9.5 in (241.3 mm) of isolation.
F. Articulating arm is of a tubular steel structure. The articulating arm is designed so that the articulating arm and tension link are compensating. By raising the articulating arm only, the lower and upper boom maintain the same relative angle with the ground. By raising the articulating arm in conjunction with the lower boom, the operator is able to position himself more quickly and easily into the work area.
G. Lower Boom Articulation: -25 to 75 degrees. Insulator provides a minimum of in (0 mm) of isolation.
H. Lower boom is a fabricated, reinforced steel box structure. Polyethylene outer slide pads slide pads and Nylastron GSM inner slide pads are installed at the boom tip to guide the telescopic upper boom. These pads have a large contact area in order to reduce wear. The pads are shimmed and attached for ease of adjustment or replacement without disassembly of the booms.
I. Telescopic upper boom is constructed of filament wound, square fiberglass, providing a minimum of 31.5 inches (965 mm) of isolation. The inner surface of the fiberglass boom is coated with polyurethane to provide a dry, smooth inner surface, which will cause moisture to bead. The outer surface has a smooth gelcoat finish.
J. The upper boom is extended and retracted by a double acting hydraulic cylinder installed within the booms. The boom extends and retracts over slide bearings located in the end of the lower boom.
K. Upper Controls: The upper controls system includes a proportional joystick upper control and toggle switches.
L. Controls for Boom and articulating arm functions are controlled with a single handle control. Control, through non-metallic linkages, actuates the interlock section and four individual boom function valves. The control provides good metering capability at all boom speeds. The single handle control activates Lower Boom?Up and Down, Upper Boom?Extend and Retract, Rotation? Clockwise/Counter-clockwise, and Articulating Arm?Raise and Lower. Unit rotation

Item	Description	Qty	Price
	is accomplished by moving the control from side to side similar to a tiller while upper boom operation is accomplished by twisting the control handle clockwise to retract and counter clockwise to extend. M. Lower Controls: A lower control station includes and is located on the of the turntable. A selector valve is provided to override the upper controls. N. The platform is leveled by hydraulic leveling means, contained within the upper boom and designed to maintain the dielectric integrity of the aerial device. Controls for leveling and tilting the platform are located at the platform. Leveling for the platform includes two double acting cylinders incorporating counterbalance load holding valves to lock the platform in the event of hydraulic line failure. Cylinders are located at the platform and at the end of the lower boom. The master-slave action of the cylinders maintains a level platform throughout the full range of boom articulation O. Diagnostic Pressure Test Quick Disconnect Couplings: are located at the turntable to allow a mobile service technician to quickly and easily attach a test gauge to verify system and tool circuit pressure. This convenient troubleshooting feature saves time and reduces the risk of high pressure oil sprays. P. Tool circuit system relief pressure to be set to 2250 psi at 5.5 GPM. Q. Unit meets or exceeds ANSI 92.2 standards.		
2.	Pedestal	1	
3.	Steel Reservoir, 15 gallon capacity, triangular, 17" L x 17" W x 24" H, and includes breather caps and dipsticks	1	
4.	Single 1-Man Platform, Fiberglass (Insulated), 24" x 30" x 42", End Mount, 180 Degree Rotation, Platform-Mounted Single Handle Controls, ARM Jib	1	
5.	Two(2) Platform steps - located on the side of the platform nearest the elbow in the stowed position	1	
6.	Platform Cover - soft vinyl, 24 x 30 inches (610 x 762 mm)	1	
7.	Platform Liner - for one-man fiberglass platform, 24 x 30 x 42 inches (610 x 762 x 1067 mm), 50 kV rating (minimum)	1	
8.	Hydraulic Tool Circuit at Platform: One set of quick disconnect couplings at the boom tip for open center tools. Tool system relief pressure set at 2,250 psi.	1	
9.	Engine Start/Stop & Secondary Stowage System: 12 VDC powered motor and pump assembly for temporary operation of the unit in a situation wherein the primary hydraulic source fails. Electric motor is powered by the chassis battery. This feature allows the operator to completely stow the booms, platform, and outriggers. Secondary Stowage & Start/Stop is activated with an air plunger at the plaform or momentary switch at the lower control station and outriggers.	1	
10.	Jib Stick, 36" L, non extension, certified, orange in color	1	
11.	Slip Ring: Required for engine start/stop, secondary stowage system, and throttle control options	1	
12.	Primary Modified A-Frame Outriggers With Integrated Subbase, fixed shoe, provides 112 inch (2844 mm) maximum spread. Includes motion alarm and outrigger interlocks, which will not allow the unit to be operated until the outriggers have been deployed. For installation on a 30 to 34 inch chassis frame height.	1	
13.	Electric Outrigger Controls: drive hydraulic outrigger control valves. Durable weather proof electronic switches are located at the rear of the unit unless otherwise specified. Use of electronic switches reduces the number of hydraulic hoses and leak points.	1	

Item	Description	Qty	Price
14.	Fall Protection System to include one body harness and decelerating type lanyard. Harness has adjustable slide buckle on shoulder straps, Velcro chest strap, interlocking buckles on leg straps and nylon web loop fall arrest attachment on back. Lanyard has built in shock absorber that allows 28 inches (711 mm) of automatic adjustability	1	
15.	Sight and Temperature gauge for hydraulic reservoir	1	
16.	Winch load line swivel hook	1	
17.	Altec Aerial Device Powder Painted White	1	
	Unit & Hydraulic Acc.		
18.	HVI-22 Hydraulic Oil (Standard).	25	
19.	Standard Pump For PTO	1	
20.	Electric Shifted PTO	1	
21.	Standard PTO/Transmission Functionality for Small Ford and Dodge Chassis	1	
	Body		
22.	BrandFX Body	1	
23.	Fiberglass Body	1	
24.	Low-Side General Service With Step (LGSS)	1	
25.	Custom Body Specifications Fiberglass	1	
26.	Approximate Body Length (Engineering to Determine Final Length) 132"	1	
27.	Custom Body Width 94"	1	
28.	Custom Body Compartment Height 39"	1	
29.	Custom Body Compartment Depth 20"	1	
30.	Gelcoat Finish Entire Body. Altec White	1	
31.	5.5 Drop-In Wood Cargo Retaining Board At Rear Of Body	1	
32.	5.5 Drop-In Wood Cargo Retaining Board At Top Of Side Access Step	1	
33.	Stainless Steel Rotary Paddle Latches With Keyed Locks	1	
34.	Gas Shock (Gas Spring) Rigid Door Holders On All Vertical Doors	1	
35.	Cable Holders On All Horizontal Doors	1	
36.	Standard Master Body Locking System (Standard Placement Is At Rear. Sidepacks With A Throughshelf/Hotstick Door At Rear, Standard Placement Is At The Front)	1	
37.	Hotstick Shelf Extending Full Length Of Body On Streetside	1	
38.	Two Hotstick Brackets On Streetside	1	
39.	Standard Drop-Down Hotstick Door For One (1) Shelf On Streetside, Stainless Steel	1	

Item	Description	Qty	Price
	Slam Paddle Latch With Keyed Lock		
40.	1st Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	2	
41.	1st Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	3	
42.	1st Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	2	
43.	1st Vertical (SS) - Outrigger Housing, With Outrigger Pin Access As Needed	1	
44.	2nd Vertical (SS) - Adjustable Shelf With Removable Dividers On 4 Inch Centers	3	
45.	1st Horizontal (SS) - Vacant	1	
46.	Rear Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	1	
47.	Rear Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	4	
48.	Rear Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	1	
49.	1st Vertical (CS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	2	
50.	1st Vertical (CS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	3	
51.	1st Vertical (CS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	2	
52.	1st Vertical (CS) - Outrigger Housing, With Outrigger Pin Access As Needed	1	
53.	2nd Vertical (CS) - Gripstrut Access Steps With Two (2) Sloped Grab Handles	1	
54.	1st Horizontal (CS) - Adjustable Shelf With Removable Dividers On 4 Inch Centers	1	
55.	1st Horizontal (CS) - Fixed Shelf With Removable Dividers On 4 Inch Centers On Bottom of Compartment	1	
56.	Rear Vertical (CS) - Adjustable Shelf With Removable Dividers On 4 Centers	4	
	Body and Chassis Accessories		
57.	29" L Aluminum Tailshelf, Width To Match Body	1	
58.	Rear Window Guard, Punch Metal, 62" L x 20" H	1	
59.	Ladder Rack,Flat With Back Stop, Steel, Roller At Rear, Retaining Brackets And Strap (Dog Collar), Typically Mounted Flush At Rear Of Body and Overhung Towards Cargo Area. Full length of SS compartments, Aluminum construction, mounted with 1" spacers on top of SS compartment tups.	1	
60.	Custom E-Track E-Track at top of cargo walls, on all three walls, CS, Bulkhead, and SS. Mount as high as possible. Include Ten (10) hooks for use with E-track.	1	
61.	Rubber Belted Step Mounted Beneath Side Access Steps (Installed To Extend Approx. 2" Outward)	1	
62.	ICC (Underride Protection) Bumper Installed At Rear	1	
63.	T-60 Style Pintle Hitch (10,000 LB MGTW with 2,000 LB MVL)	1	

Item	Description	Qty	Price
64.	Set Of D-Rings for Trailer Safety Chain, installed one each side of towing device mount.	1	
65.	Platform Rest, Rigid with Rubber Tube	1	
66.	Boom Rest for a Telescopic Unit	1	
67.	Outrigger Pad Holder, 20" L x 20" W x 5" H, Fits 19.5" x 19.5" x 4" And Smaller Pads, Bolt-On, Bottom Washout Holes, 3/4" Lip Retainer	2	
68.	Pendulum Retainers For Outrigger Pad Holders	2	
69.	Plastic Outrigger Pad, 18" x 18" x 1", Black With Handle	2	
70.	Wheel Chocks, Rubber with Metal Hairpin Style Handle, 9.75" L X 7.75" W X 5.00" H (Pair)	1	
71.	Mud Flaps With Altec Logo (Pair)	1	
72.	Driveaway Safety Kit	1	
73.	Install Counterweight As Needed	1	
74.	Slope Indicator Assembly For Machine With Outriggers	1	
75.	Vinyl manual pouch for storage of all operator and parts manuals	1	
76.	Additional Body/Chassis Accessory SVP 10-SCE12 Altec PN 7012-09003	1	
77.	Additional Body/Chassis Accessory Wire reel storage rack for Three (3) 12" x 4" reels. See refrence photo.	1	
78.	Additional Body/Chassis Accessory Wire coil storage, 5 sections, bicycle style, "clips" into E-track.	1	
	Electrical Accessories		
79.	Install secondary stowage system.	1	
80.	Install Remote Start/Stop system in Final Assembly.	1	
81.	Install Outrigger Interlock System	1	
82.	Rope Lights Around Top And Sides Of Compartment Door Facings In Body (Installed At Final Assembly)	1	
83.	Compartment Lights Wired To Dash Mounted Master Switch	1	
84.	Lights and reflectors in accordance with FMVSS #108 lighting package. (Complete LED, including LED reverse lights)	1	
85.	6-Position Strobe Lighting, Amber LED, Two Front Grill Surface Mounted, Two Round Rear Grommet Mounted In Tailshelf, And Two Oval Grommet Mounted On Body Side Panels	1	
86.	LED Roof-Mounted Light Bar. Amber With Twelve(12) 6-LED Modules (4 Corner 4 Front And 4 Rear). 72 LEDs Total. Meets SAE Class 1 And California Title 13 Specifications	1	
87.	Spot Light, Permanent Mount With Hard-Wired Dash Mounted Controls (Go-Light #2020) One (1) mounted either side of window guard	2	

Item	Description	Qty	Price
88.	Dual Tone Back-Up With Outrigger Motion Alarm	1	
89.	6-Way Trailer Receptacle (Pin Type) Installed At Rear	1	
90.	Dash panel rocker switches supplied with Dodge Chassis, 4 auxiliary switches supplied in up fitting package from Dodge	1	
91.	Dodge Module	1	
	Finishing Details		
92.	Focus Factory Build	1	
93.	Delivery Of Completed Unit	1	
94.	Powder Coat Unit Altec White	1	
95.	Altec Standard; Components mounted below frame rail shall be coated black by Altec. i.e. step bumpers, steps, frame extension, pintle hook mount, dock bumper mounts, D-rings, receiver tubes, accessory mounts, light brackets, under-ride protection, etc.Components mounted to under side of body shall be coated black by Altec. i.e. Wheel chock holders, mud flap brackets, pad carriers, boxes, lighting brackets, steps, and ladders.	1	
96.	Apply Non-Skid Paint to all walking surfaces	1	
97.	English Safety And Instructional Decals	1	
98.	Vehicle Height Placard - Installed In Cab	1	
99.	Dielectric test unit according to ANSI requirements.	1	
100.	Stability test unit according to ANSI requirements.	1	
101.	Placard, HVI-22 Hydraulic Oil	1	
102.	Inbound Freight	1	
103.	Installation - AT40M	1	
	Chassis		
104.	Chassis	1	
105.	Altec Supplied Chassis	1	
106.	2014 Model Year	1	
107.	Dodge Ram 5500	1	
108.	4x4	1	
109.	Chassis CA Length - 84"	1	
110.	Regular Cab	1	
111.	Cummins 6.7L Turbo Diesel (Dodge)	1	

Item	Description	Qty	Price
112.	Aisin AS68RC Automatic Transmission (Dodge Chassis)	1	
113.	GVWR 19,500 LBS	1	
114.	7,250 LBS Front Axle Rating	1	
115.	13,500 LBs Rear Axle Rating	1	
116.	4.44 Axle Ratio	1	
117.	Hydraulic Brakes	1	
118.	Park Brake In Rear Wheels	1	
119.	Single Horizontal Exhaust Right Hand	1	
120.	Dodge PTO Prep Package (Right Hand Side PTO) (LBN)	1	
121.	Cruise Control	1	
122.	No Idle Engine Shut-Down Required	1	
123.	Air Conditioning	1	
124.	AM/FM Radio	1	
125.	Cold Weather Group (Includes Block Heater)	1	
	Miscellaneous		
126.	Standard Altec Warranty One (1) year parts warranty One (1) year labor warranty Ninety (90) days warranty for travel charges Limited Lifetime Structural Warranty	1	
		Total	**132,169.00**

Altec Industries, Inc.

BY _____

Mark Floyd Jarrell

Notes:

Altec
Altec Industries, Inc.

Opportunity Number: 46649
Quotation Number: 242346
GSA Contract #: GS-30F-1028G
Date: 1/22/2014

Quoted for: City of Bonners Ferry
Customer Contact: Stephen Boorman
Phone: /Fax: /Email:

Quoted by: Mark Jarrell
Phone: 919-764-4009 **/Fax: /Email:** Mark.Jarrell@altec.com
Altec Account Manager: Mike Mattson

REFERENCE ALTEC MODEL

AT40M	**Articulating Telescopic Aerial Device with Material Handling (Insulated)**	**$114,360**

Per GSA Specifications in GSA Catalog plus Options below

(A.) GSA OPTIONS ON CONTRACT *(Unit)*

1	AT40M-AWD	All Wheel Drive	$5,008
2			
3			
4			
5			

(A1.) GSA OPTIONS ON CONTRACT *(General)*

1	SPOT4	6-point recessed LED strobe system	$656
2	RW	Rear Window Guard	$228
3	LR	Ladder Rack - Sloped Aluminum Ladder Rack, Curbside, 102" - 108" L Body	$512
4			
5			

GSA OPTIONS TOTAL: $6,404

(B.) OPEN MARKET ITEMS

1	UNIT	Certified Jib (orange)	$343
2	UNIT & HYDRAULIC ACC		
3	BODY	132" LGSS fiberglass body ILO Steel body	$6,262
4	BODY & CHASSIS ACC	SVP Executive Console, Wire Reel Rack, Wire Coil Storage, E-Track	$1,953
5	ELECTRICAL	Go Lights, LED Light Bar	$2,362
6	FINISHING		
7	CHASSIS	Dodge 5500 Chassis ILO Ford F550	$485
8	OTHER		
9	DELIVERY		

OPEN MARKET ITEMS TOTAL: $11,405

SUB-TOTAL FOR UNIT/BODY/CHASSIS: $132,169
QTY DISCOUNT(%1): $0
TOTAL FOR UNIT/BODY/CHASSIS: $132,169

(C.) ADDITIONAL ITEMS (items are not included in total above)

1			
2			
3			

****Pricing valid for 45 days****

NOTES

PAINT COLOR: White to match chassis, unless otherwise specified
WARRANTY: Standard Altec Warranty - One (1) year parts warranty One (1) year labor warranty Ninety (90) days warranty for travel charges (Mobile Service) Limited Lifetime Structural Warranty. Chassis to include standard warranty, per the manufacturer. (Parts only warranty on mounted equipment for overseas customers)
TO ORDER: To order, please contact the Altec Inside Sales Representative listed above.
CHASSIS: Per Altec Commercial Standard
DELIVERY: No later than **240-270** days ARO, FOB Customer Location
TERMS: Net 30 days
FET TAX: If chassis over 33K GVWR, a 12 % FET may be applied
BEST VALUE: Altec boasts the following "Best Value" features: Altec ISO Grip Controls for Extra Protection, Only Lifetime Warranty on Structural Components in Industry, Largest Service Network in Industry (Domestic and Overseas), Altec SENTRY Web/CD Based Training, Dedicated/Direct Gov't Sales Manager, In-Service Training with Every Order.
TRADE-IN: Equiptment trades must be received in operational condition (as initial inspection) and DOT compliant at the time of pick-up. Failure to comply with these requirements, may result in customer bill-back repairs.
BUILD LOCATION: Creedmoor, NC

CITY OF BONNERS FERRY

7232 Main Street
P.O. Box 149
Bonners Ferry, Idaho 83805
Phone: 208-267-3105 Fax: 208-267-4375

Memo

To: Mayor and City Council

From: Kris Larson, Clerk/Treasurer

Date: 1/31/2014

Re: Golf Cart Shed Lease Proration

We have been approached several times in the past by people wanting to lease a cart shed late in the summer. Our cart shed leases are on the fiscal year of October through September. Some of them do not want to pay for the entire year ($150 or $210) so we were considering a proration of the lease fee. This would only be for the months of July, August, and September at $40 per month. Otherwise, it would be better if the person paid the full lease amount.

This may garner more interest in leasing the cart sheds. Currently, we have seven open spaces.

Thanks,

Kris

MEMO

CITY OF BONNERS FERRY
CITY ADMINISTRATOR

Date: 30 January 2014
To: City Council
From: Stephen Boorman, City Administrator
Subject: Hazel Street Water / Sewer Replacement.

This memo is to recommend that the Council approve the attached design and authorize the City to go out for quotes for replacement of the Water and Sewer Lines on Hazel Street.

Due to the narrow street, locations of the facilities, and the degraded condition of both lines we feel that there is significant benefit in replacing both lines concurrently. The water and sewer lines on the upper end of Hazel Street were replaced two years ago. This project would proceed from that point to Montanan Street.

We bid this job last fall and only had one bidder, with a bid of $101,682.45. Our hope is that by rebidding this time of the year with a flexible construction schedule we will receive additional bids.

SJB

CITY OF BONNERS FERRY

7232 Main Street
P.O. Box 149
Bonners Ferry, Idaho 83805
Phone: 208-267-3105 Fax: 208-267-4375

28 January 2014

Subject: 2014 Hazel Street Water and Sewer Line Replacement Quotes

The City of Bonners Ferry is requesting quotes for the replacement of the water and sewer lines in Hazel Street from the manhole mid-Hazel to Montana Street. This quote is for labor and materials. Attached performance and payment bonds will be required from the successful bidder. All work shall be in accordance with the 2010 Idaho Standards for Public Works Construction and meet the attached specifications and conditions.

Responses to this request for quotes are per Idaho Code Title 67 Chapter 28 and Title 54 Chapter 19. If you desire to provide a quote for this project, your written quote needs to be delivered to City Hall on the attached form by 2:00 p.m. Thursday, 27 February 2014. If you have any objections to these specifications they need to be provided by 2:00 p.m. Thursday, 20 February 2014.

The City will hold a pre-bid meeting on Hazel Street on **Thursday, 13 February 2014** at 8:00 a.m. to review the site and address any questions.

The City to reserves the right to reject any and all quotes and accept the quote it deems most advantageous and to waive formalities.

If you have any questions feel free to call me at 267-0357.

Sincerely,

SJB

Stephen Boorman
City Administrator

CITY OF BONNERS FERRY

7232 Main Street
P.O. Box 149
Bonners Ferry, Idaho 83805
Phone: 208-267-3105 Fax: 208-267-4375

Quote – 2014 Hazel Street Water-Sewer Line Replacement

Replace Hazel Street water line per specifications (no connections) (lump sum)

_____ _____
(Amount spelled out in words) (Amount spelled out in numbers)

Additional cost for each water service connection (per unit)

_____ _____
(Amount spelled out in words) (Amount spelled out in numbers)

Additional cost for each water service road crossing (per unit)

_____ _____
(Amount spelled out in words) (Amount spelled out in numbers)

Replace Hazel Street sewer line per specifications (no connections) (lump sum)

_____ _____
(Amount spelled out in words) (Amount spelled out in numbers)

Additional cost for each sewer service connection (per unit)

_____ _____
(Amount spelled out in words) (Amount spelled out in numbers)

Additional cost for replacement of unsuitable fill material (per yard) (City will provide the fill material)

_____ _____
(Amount spelled out in words) (Amount spelled out in numbers)

Understanding that this lump sum price and per unit prices includes all permit fees, sales and consumer use taxes, etc. required by law or regulation in the place where the work is performed.

Signed _____

Name and Title _____

Date _____

Company Name and Address _____

_____

_____

Phone Number _____

Idaho Contractors License Number _____

Public Works Contractors License Number _____

CITY OF BONNERS FERRY

7232 Main Street
P.O. Box 149
Bonners Ferry, Idaho 83805
Phone: 208-267-3105 Fax: 208-267-4375

Specifications – 2014 Hazel Street Water-Sewer Line Replacement

The City of Bonners Ferry is requesting bids for the replacement of the water and sewer lines in Hazel Street from mid-Hazel to Montana Street. This quote is for labor and all materials. Except for the asphalt surface which the City will contract for separately. **All work shall be in accordance with the 2010 Idaho Standards for Public Works Construction (ISPWC).**

The City is requesting quotes for the water and sewer lines jointly due to their proximity to each other and issues of traffic control and road repair are integrally linked.

The goal is to complete the work during the 2014 construction season.

Sewer Narrative:

This project is to replace approximately 455' of existing 8" sewer line on Hazel Street. The existing sewer line is deep and this area is subject to excessive ground water on a seasonal basis. The construction grade will be set by the three existing manholes. The existing grade for the first 275', which must be maintained, is at the minimum acceptable grade. Therefore, extra care must be taken to ensure the pipe is installed at a consistent grade for this section.

The intersection of Hazel and Cemetery Hill road will require special attention. The sewer alignment bisects the road bank which will have to be excavated at this intersection and then restabilized. This will likely require the installation of gabion baskets or ecology blocks.

Water Narrative:

This project is to replace approximately 550' of 4" and 6" water line on Hazel Street. The existing water line is located on the north side of the street. Care will need to be taken to ensure there is 10' of separation between the waterline and sewer line. This area is subject to excessive ground water on a seasonal basis. The waterline shall be installed at a minimum depth of 60 inches.

The tie-in on Montana Street will be to a 6" line installed in 2010. Sketch from the 2010 project is attached. There will be a 6"x6"x6" tee at Hazel and Hemlock that will tie into the existing line on Hemlock. It is unkown if the existing valve is 6" or 4". Therefore at this point there will be either 1 or 2 4"-6" reducers required. The tie-in on upper Hazel Street will be to an existing 4" valve installed in 2011.

From the tee at Hazel and Hemlock to the existing valve will require approximately 25' of 6" pipe. Due to the proximity of this line to the sewer manhole this line will be required to be sleaved as shown in the attached detail.

Miscellaneous:

1. Trench excavation, trench stabilization, pipe bedding and trench backfill shall be in accordance with the appropriate sections of the 2007 Idaho Standards for Public Works Construction. The contractor is required to meet or exceed OSHA requirements at all times for all trench excavation and associated work. The Class A-1 bedding system as described in ISPWC 305 shall be used, except that bedding material shall be ½ inch minus crushed rock.
2. If there is unsuitable fill material, the City will pay the amount specified in the quote on a per yard basis for its replacement. The City will provide the fill material at the City Yard on Washington Street.

3. During construction, pumping of sewage between manholes may be required to ensure continuing service of the sewer system. Groundwater levels shall be maintained below the trench bottom during construction.
4. It is required that traffic is able to continue to flow during construction, and the contractor shall be responsible for all traffic control and signage. The length of open trench shall not exceed 65' to minimize traffic disruption.
5. The existing road surface shall be cut and returned to a gravel surface with dust control material applied. A minimum of two inches of ¾" minus crushed rock is to be placed on the road surface. Any exiting road drainage ditches are to be cleaned out and the road slopes and grades returned to original or better condition.
6. The contractor is required to obtain a city street encroachment permit.
7. The contractor shall be responsible for all work related to replacing the line, including all clean up work. The contractor is responsible for locating all utilities in the work area prior to the start of work, and protecting all utilities as per ISPWC 301 3.3-3.4.
8. A one (1) year warranty period after the project is substantially completed is required, covering all labor, material and workmanship. The date of substantial completion shall be mutually agreed upon by the contractor and the City.

Sewer Specifications:

1. The approximate length of the line is 455' and the approximate depth is 10'.
2. The line is to be replaced with 8" 3034 PVC sewer pipe as per ISPWC 501 2.2A.
3. All existing service lines must be connected to the new sewer line. It is estimated that there are five services on the line. Quotes shall include a base amount without any connections, plus an additional amount for each service connection required. The contractor shall be responsible for communicating with service owners and scheduling work to minimize service disruption. Service connections shall be Type A, D or B, as per ISPW SD-511.
4.

Water Specifications:

1. The approximate length of the line is 275' of existing 4" and 275' of existing 6" with a minimum burial depth of 60".
2. The line is to be replaced with 6" and 4" C900 Water Pipe. ISPWC
3. All fittings to be restrained joint type fittings in addition to thrust blocking at elbows and tees.
4. All existing service lines must be connected to the new water line. It is estimated that there are five services on the line. Quotes shall include a base amount without any connections, plus an additional amount for each service connection required. The contractor shall be responsible for communicating with service owners and scheduling work to minimize service disruption.

Payment Bond

Any singular reference to Contractor, Surety, Owner 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:

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.

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 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 herefrom 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 pthereto.

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 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:

EJCDC No. 1910-28-A (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, and the American Institute of Architects.

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 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.

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.

OAK ST
CEMETERY RD
03
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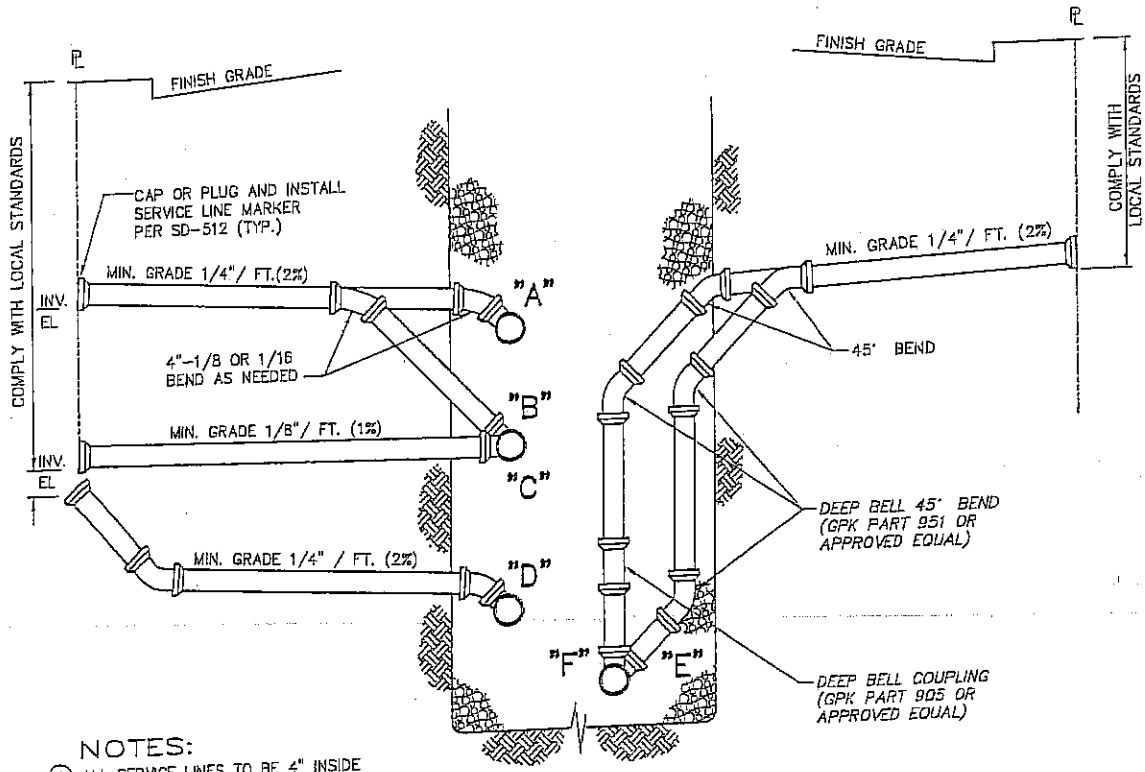


NOTES:

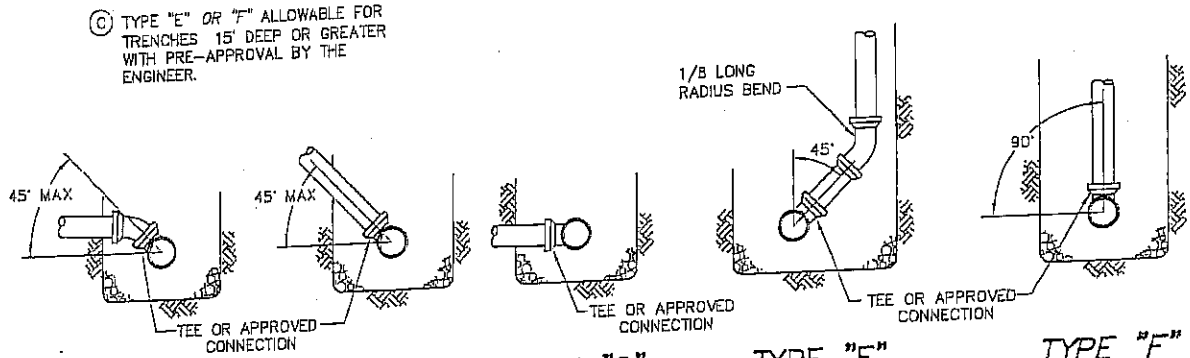
(A) ALL SERVICE LINES TO BE 4" INSIDE INSIDE DIAMETER UNLESS OTHERWISE NOTED.

(B) TYPE "C" CONNECTION WILL ONLY BE ALLOWED IF SHOWN ON THE PLANS OR OTHERWISE APPROVED BY THE ENGINEER.

(C) TYPE "E" OR "F" ALLOWABLE FOR TRENCHES 15' DEEP OR GREATER WITH PRE-APPROVAL BY THE ENGINEER.

ELEVATIONS

N.T.S.



TYPE "A"&"D" TYPE "B" TYPE "C" (SEE NOTE B) TYPE "E" (SEE NOTE C) TYPE "F" (SEE NOTE C)

CONNECTION DETAILS

N.T.S.

2007 REVISIONS

IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION	STANDARD SEWER SERVICE LINES	STANDARD DRAWING NO. SD-511

SECTION 501

GRAVITY SEWERS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Gravity sewer pipe materials, installation and testing.

1.2 RELATED SECTIONS

A. Section 301 – Trench Excavation.

B. Section 304 – Trench Foundation Stabilization.

C. Section 305 – Pipe Bedding.

D. Section 306 – Trench Backfill.

E. Section 405 – Non-Potable Water Line Separation.

F. Section 506 – Plastic Liner.

1.3 REFERENCES

A. ANSI/AWWA C 151/A21.51: Ductile Iron Pipe.

B. ANSI/AWWA C 900: PVC Pressure Pipe for Water Distribution.

C. ANSI/AWWA C 905: PVC Pressure Pipe for Water Transmission.

D. ASTM C14: Non-Reinforced Concrete Pipe.

E. ASTM C 76: Reinforced Concrete Pipe.

F. ASTM C 425: Compression Joints for Vitrified Clay Pipe and Fittings.

G. ASTM C 443: Joints for Circular Concrete Sewer and Culvert Pipe, using Rubber Gaskets.

H. ASTM C 700: Vitrified Clay Pipe.

I. ASTM D 2241: PVC Pressure Rated Pipe.

J. ASTM D 2321: Underground Installation of Thermoplastic Pipe for Sewers and other Gravity Flow Application.

K. ASTM D 2412: Determination of External Loading Characteristics of Plastic Pipe by Parallel – Plate Loading.

L. ASTM D 3034: Type PSM PVC Sewer Pipe and Fittings.

M. ASTM F 477-02: Elastomeric Seals for Joining Plastic Pipe.

N. ASTM F 679: PVC Large Diameter Plastic Gravity Sewer Pipe and Fittings.

O. ASTM F 794-01: PVC Profile Gravity Sewer Pipe and Fittings Based on Controlled Inside Diameter.

P. ASTM F 894: Polyethylene Large Diameter Profile Wall Sewer and Drain Pipe.

Q. ASTM F1803: Dual wall closed profile PVC sewer pipe sizes 18" to 60".

1.4 SUBMITTALS

A. Submit shop drawings for materials to be installed or furnished under this section.

B. Submit manufacturer's certification that pipe and fittings meet or exceed specified requirements including all requested test results and material identifications.

C. Submit manufacturers' installation instructions and maintain copy at the jobsite.

D. Close circuit television inspection tapes.

1.5 PROJECT RECORD DOCUMENTS

A. Accurately record actual locations of constructed pipelines and other encountered utilities in relation to existing permanent benchmarks.

B. Provide copy of record documents to Owner prior to issuance of substantial completion.

1.6 DELIVERY, STORAGE AND HANDLING

A. Handle and store pipe in a manner which prevents shock, damage or excessive exposure to sunlight and weather.

B. Protect gasket material from sunlight and contamination until ready for installation in the pipe.

PART 2 MATERIALS

2.1 PIPE SIZE, TYPE AND STRENGTH

A. Comply with pipe size, type, and strength classifications indicated in the Contract Documents.

B. If type and strength classifications are not indicated in the Contract Documents, use any of the alternate pipe materials meeting the minimum requirements of this section.

C. Notify the Engineer if installation conditions such as trench width, depth, soils, and bedding conditions do not match conditions contemplated by the Contract Documents.

2.2 GRAVITY SEWER PIPE AND FITTINGS

A. Solid Wall PVC Pipe Sizes 4 inch to 15 inch: ASTM D 3034.

1. Minimum Wall Thickness: SDR 35.

2. Joints: Elastomeric gasket joints with ASTM F 477-02 elastomeric gaskets.

B. Solid Wall PVC Pipe Sizes 18 inch to 36 inch: ASTM F 679.

C. Ribbed PVC Pipe Sizes 8 inch to 48 inch: ASTM F 794-01.

1. Minimum Pipe Stiffness: 46 psi.

2. Ribs to be perpendicular to the axis of the pipe, unless otherwise approved by the Engineer.

D. ASTM F1803: Dual wall closed profile PVC sewer pipe sizes 18" to 60"

1. Minimum Pipe Stiffness: 46 psi.

E. Polyethylene Profile Wall Pipe 18 inch to 36 inch: ASTM F 894.

1. Ring Stiffness Constant: 160 psi.

F. Ductile Iron Pipe: ANSI/AWWA C151/A21.51.

1. Minimum Class: Thickness Class 50.

2. Joints: Push-on.

3. External Coating: Asphaltic coating, 1 mil thick minimum.

4. Internal Coating: 40 mils Protecto 401 ceramic epoxy coating as manufactured by Pacific States Cast Iron Pipe Co. or approved substitution.

G. Vitrified Clay Pipe 4 inch to 42 inch: ASTM C 700.

1. Strength: Extra strength.

2. Joints: ASTM C 425, Polyurethane compression joints.

H. Non-reinforced Concrete Pipe 4 inch to 36 inch: ASTM C 14.

1. Acceptance: On the basis of plant load-bearing tests, material tests, and inspection of manufactured pipe for visual defects and imperfections.

2. Minimum Class: As indicated in the Contract Documents.

3. Joints: ASTM C 443, Rubber Gasket Joints.

4. Liner: Section 506 - Plastic Liner.

I. Reinforced Concrete Pipe 30 inch to 144 inch: ASTM C 76.

1. Acceptance: On the basis of plant load-bearing tests, material tests, and inspection of manufactured pipe for visual defects and imperfections.

2. Minimum Class: As indicated in the Contract Documents.

3. Joints: ASTM C 443, Rubber Gasket Joints.

4. Liner: Section 506 - Plastic Liner.

J. Pressure Pipe for Gravity Sewers.

1. PVC Pipe: AWWA C 900 Class 100 psi or higher 4"-12", AWWA C 905 Class 125 psi 14"-36", or ASTM D 2241 Class 160 psi or higher. Match the inside diameter of the connecting non-pressure pipe, plus or minus 0.125 inches.

2.3 COUPLINGS FOR DISSIMILAR PIPE OR TWO PLAIN ENDS OF SIMILAR PIPE

A. Coupling for Two Pipes of Dissimilar Type or Size: Flex Seal couplers, providing for a watertight connection and a smooth pipe invert, *as approved by the Engineer.*

B. Coupling for Two Pipes Where Factory Bell and Spigot are not Available: Flex Seal couplers providing for a watertight connection and a smooth pipe invert, *as approved by the Engineer.*

C. Coupling of PVC Gravity Pipe to PVC Pressure Pipe for Gravity Sewers: Rigid PVC couplers providing for watertight connection and a smooth pipe invert, *as approved by the Engineer.*

D. Coupling of PVC Plain End to PVC Plain End: Bell-by-bell connection.

2.4 SOURCE QUALITY CONTROL

A. Provide test and inspection reports required by the standard for the pipe.

B. Inspect pipe markings to verify type, class, thickness and marking information required by the Standard for the pipe.

PART 3 WORKMANSHIP

3.1 EXAMINATIONS

A. Verify that excavations are to required alignment and grade and installation meets separation requirements per Section 405 – Non-Potable Water Line Separation.

B. Verify that trench conditions and shoring, sheeting, and bracing protect workers and meet the requirements of OSHA.

C. Examine pipe and fittings for defects or damage.

D. Verify pipe, fittings, bedding, and materials delivered to the site meet the requirements of the Contract Documents.

E. Verify utility locations, existing piping locations and structures where connections are to be made prior to beginning work. Notify the Engineer if field conditions are different from the Contract Documents. Allow 4 hours for the Engineer to modify the design, if necessary, unless otherwise specified.

3.2 PIPE INSTALLATION

A. On sewer line extensions, isolate hazardous gases and prevent groundwater and other material from entering an existing sewer line by installing a temporary air-tight plug in the first new manhole that will not restrict existing flow. The plug shall remain until the sewer has been accepted for use.

B. Prepare trench bottom as required by Section 301 – Trench Excavation.

C. Maintain groundwater 1 foot below the pipe invert and, if necessary, provide foundation stabilization in accordance with Section 304 – Trench Foundation Stabilization.

D. Provide pipe bedding and initial backfill as required by Section 305 – Pipe Bedding.

E. Install pipe in accordance with the manufacturer's recommendations.

F. Unless otherwise approved by the Engineer, install pipe upgrade with the bell-end upgrade.

G. Use standard lengths of pipe unless otherwise required for installation of tees, fittings, or manholes.

H. Utilize proper tools for cutting and beveling pipe ends and joining pipe. Use manufacturer's recommended tools designed for this task.

I. Move pipe carefully and prevent damage to pipe and manufactured ends while lowering pipe into trench.

J. Remove dirt and other foreign material from pipe.

K. Prepare pipe joint using specified gasket and manufacturer's recommended lubricant.

L. For reinforced concrete pipe, rotate pipe to correct orientation.

M. Mark, or verify that pipe ends are marked, to indicate insertion stop position (home). Ensure that pipe is inserted into bell to this mark. Push spigot into bell using methods recommended by the manufacturer. Protect the end of the pipe during "homing" and do not use excessive force that may result in over-assembled joints, dislodged gaskets, or damaged ends. If full entry is not achieved, disassemble and clean the joint and reassemble.

N. Provide sufficient restraint for the pipe to ensure that joints are held in place while bedding and initial backfill are placed and while the trench shoring system is moved.

O. Limit joint gap on clay and concrete pipe to less than 5/8 inch for pipe 4 inches through 10 inches, 7/8 inch for pipe 12 inches through 24 inches, and 1 inch for pipe 27 inches and larger.

P. When pipe installation is not in progress, block and plug the open end of the pipe to prevent creep, uplift or floating and entrance of water or other material into the pipe.

Q. Control line and grade of the pipe installation by use of a pipeline laser or other Engineer approved means. Check accuracy of laser against line and grade control hubs. Limit variance of installed pipe from design line and grade to less than 0.02 feet, unless a smaller variance is necessary to prevent a level or negative slope.

R. When required install liner and PVC weld strips per Section 506 – Plastic Liner.

S. Install pipe anchors as necessary, per Standard Drawing SD-510 - Pipe Anchors.

T. Backfill trench as required by Section 306 – Trench Backfill.

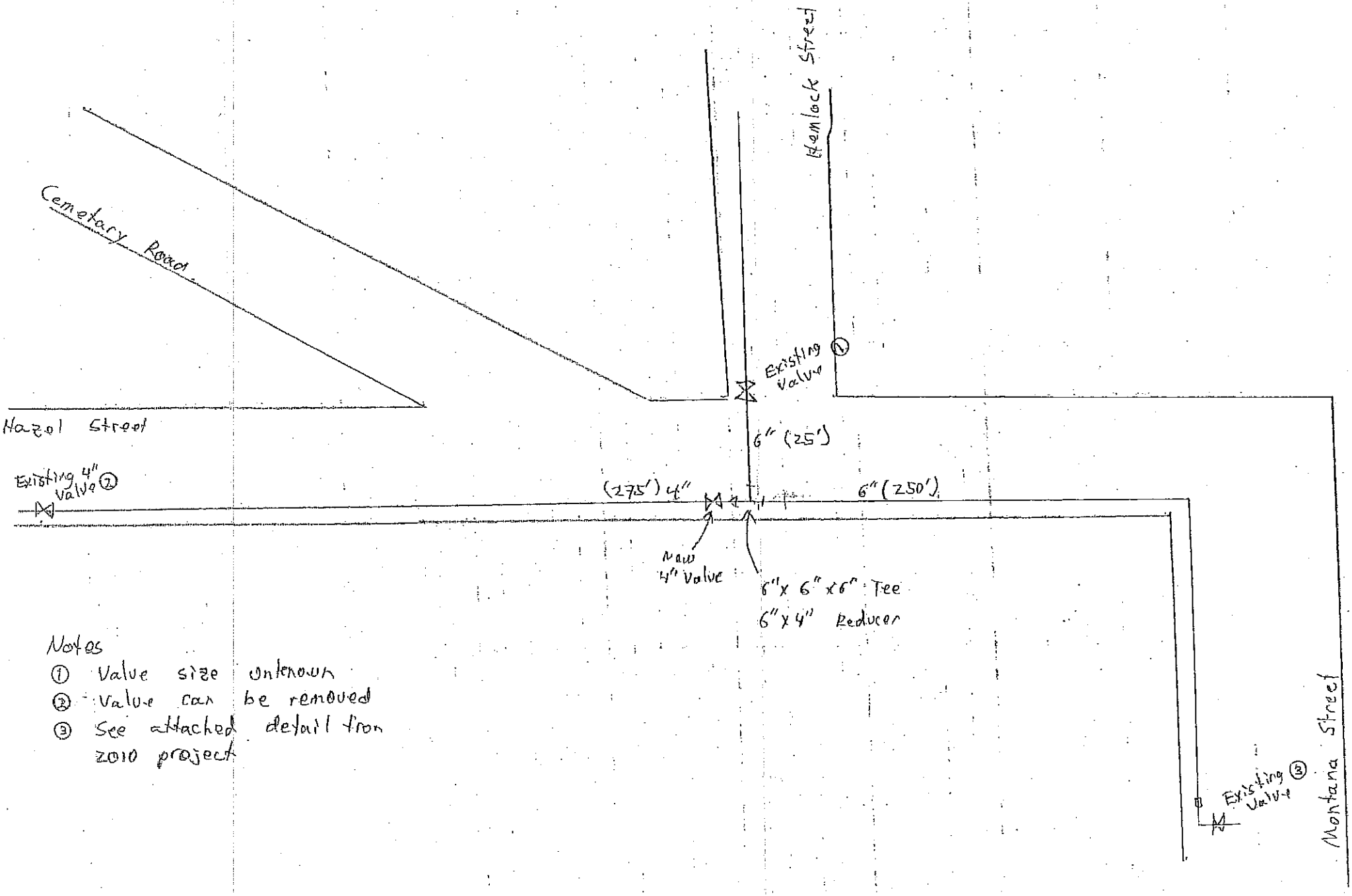
3.3 PLUGS AND PIPE MARKERS

A. Furnish and install plugs or caps on pipe ends and stub-outs.

1. Provide shop drawings for plugs and caps on pipelines greater than 18 inches in diameter.

Water schematic

9/17/13



Notes

① Valve size unknown

② Valve can be removed

③ See attached detail from 2010 project

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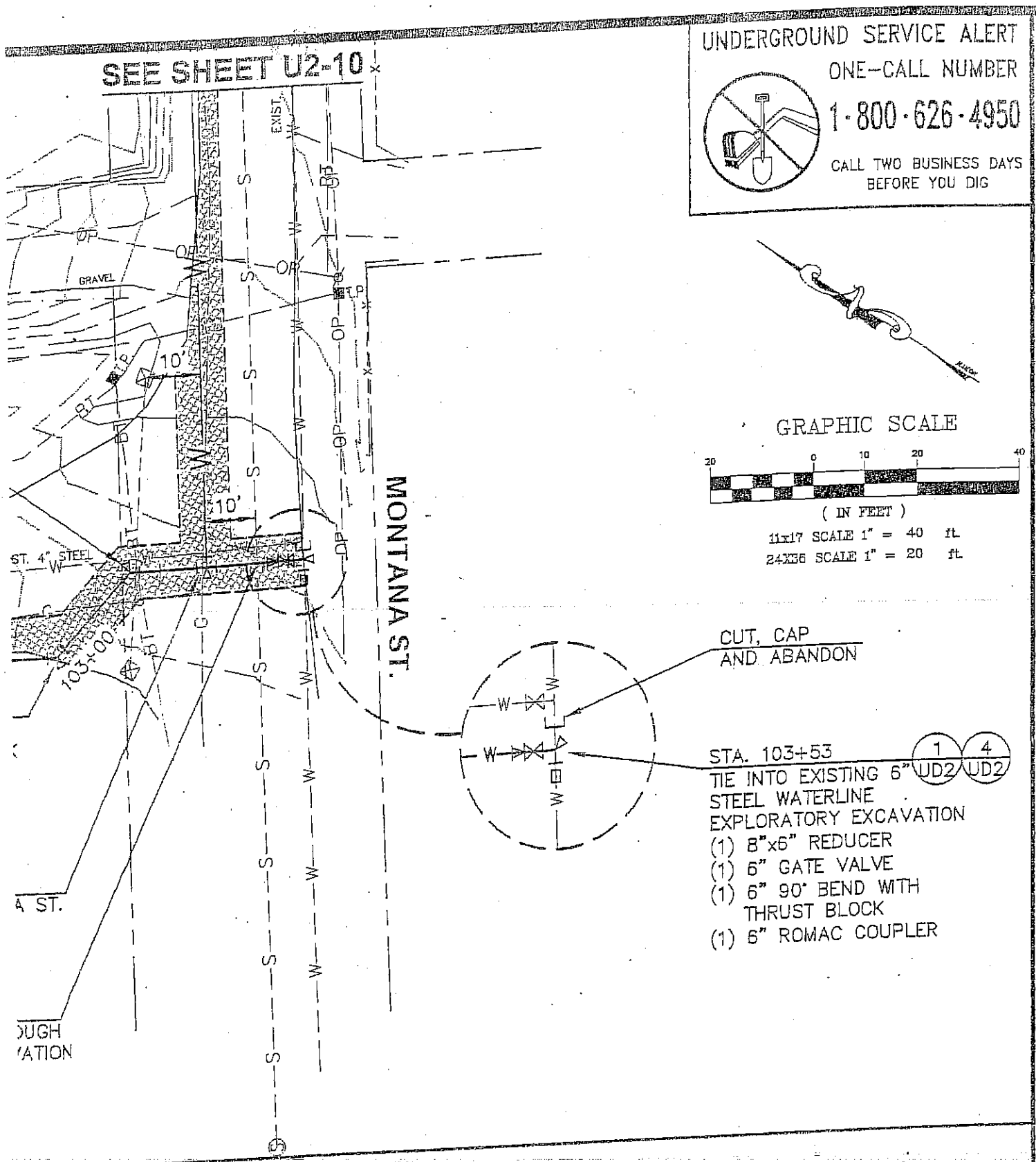


NOTES

1. ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY OWNERS FOR ACTUAL FIELD LOCATIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION TO VERIFY THE LOCATION AND ELEVATION OF EXISTING WATER AND SEWER LINES AT ALL

SECTION 401

WATER PIPE AND FITTINGS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Potable water transmission and distribution pipe and fitting materials, installation, testing, and disinfection.

B. Thrust blocks and pipe anchors.

1.2 RELATED SECTIONS

A. Section 301 – Trench Excavation.

B. Section 304 – Trench Foundation Stabilization.

C. Section 305 – Pipe Bedding.

D. Section 306 – Trench Backfill.

E. Section 402 – Hydraulic Valves.

F. Section 403 – Fire Hydrants.

G. Section 404 – Water Service Line and Meters.

H. Section 405 – Non-Potable Water Line Separation.

I. Section 703 - Cast-in-Place Concrete.

1.3 REFERENCES

A. ANSI/AWWA C 104: Cement-Mortar Lining for Ductile-Iron Pipe and Fittings, for Water.

B. ANSI/AWWA C 105: Polyethylene Encasement for Ductile Iron Pipe Systems.

C. ANSI/AWWA C 110: Ductile Iron and Gray-Iron Fittings 3 inch through 48 inches for Water and Other Liquids.

D. ANSI/AWWA C 111: Rubber Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.

E. ANSI/AWWA C 115: Flanged Ductile Iron Pipe with Ductile-Iron or Gray-Iron Threaded Flanges.

F. ANSI/AWWA C 151: Ductile Iron Pipe, Centrifugally Cast for Water.

G. ANSI/AWWA C 153: Ductile Iron Compact Fittings, 3 inch through 24 inch and 54 inch through 64 inch for Water Service.

H. ANSI/AWWA C 600: Installation of Ductile-Iron Water Mains and Their Appurtenances.

I. ANSI/AWWA C 605: Installation of Polyvinyl Chloride Pressure Pipe and Fittings.

J. ANSI/AWWA C 900: Polyvinyl Chloride (PVC) Pressure Pipe 4 inch through 12 inch for Water Distribution.

K. ANSI/AWWA C 905: Polyvinyl Chloride (PVC) Water Transmission Pipe, Nominal Diameters 14 inch through 36 inch.

L. ANSI/AWWA C 906: PE Pressure Pipe for Water Distribution.

M. ANSI/AWWA C 907: Polyvinyl Chloride (PVC) Pressure Fittings for Water, 4 inch through 8 inch.

N. ANSI/AWWA C 909: Molecularly Oriented Polyvinyl Chloride (PVCO) Pressure Pipe, 4 inch through 12 inch, for Water Distribution.

O. ANSI B 16.3: Malleable Iron Threaded Fittings.

P. ASTM A 53: Specification for Pipe, Steel, Black and Hot Dipped, Zinc Coated (Galvanized), Welded and Seamless.

Q. ASTM D 2774: Standard Practice for Underground Installation of Thermoplastic Pressure Piping.

R. ASTM D 3261: Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing.

S. ASTM F 477-02: Elastomeric Seals (Gaskets) for Joining Plastic Pipe.

T. ASTM F 2164-02: Field Leak Testing of Polyethylene (PE) Pressure Piping Systems using Hydrostatic Pressure.

1.4 SUBMITTALS

A. Submit shop drawings for materials to be installed under this section.

B. Submit manufacturer's certification that pipe and fittings meet or exceed specified requirements.

C. Submit manufacturer's installation instructions and maintain copy at the jobsite.

1.5 PROJECT RECORD DOCUMENTS

A. Accurately record actual location of constructed pipelines and other encountered utilities in relation to existing permanent benchmarks.

B. Provide copy of record documents to Owner prior to issuance of substantial completion.

1.6 DELIVERY, STORAGE AND HANDLING

A. Handle and store pipe per manufacturer's recommendations and in a manner which prevents shock, damage or excessive exposure to sunlight and weather.

B. Protect gasket material from sunlight and contamination.

PART 2 MATERIALS

2.1 PIPE AND FITTINGS SIZE, TYPE AND STRENGTH

A. Comply with pipe and fitting size, type and strength classification indicated in the Contract Documents.

B. If type and strength classifications are not indicated in the Contract Documents, contact the Engineer.

C. Notify the Engineer if installation conditions such as trench width, depth, soils, and bedding conditions do not match those contemplated by the Contract Documents.

2.2 POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS

A. PVC Pressure Pipe Sizes 4 inch through 12 inch for Water Distribution: ANSI/AWWA C 900

1. Pressure Class: As indicated in the Contract Documents.

2. Outside Diameter Basis: Cast iron (CI) pipe equivalent.

3. Joints: Bell and spigot end with ASTM F 477-02 elastomeric gaskets.

B. PVC Pressure Pipe 14 inch through 36 inch for Water Transmission: ANSI/AWWA C 905

1. Pressure Class: As indicated in the Contract Documents.

2. Outside Diameter Basis: Cast iron (CI) pipe equivalent.

3. Joints: Bell and spigot end with ASTM F 477-02 elastomeric gaskets.

C. PVC Pressure Pipe Sizes 4 inch through 12 inch for Water Distribution: ANSI/AWWA C 909.

1. Pressure Class: As indicated in the Contract Documents.

2. Outside Diameter Basis: Cast iron (CI) pipe equivalent.

3. Joints: Bell and spigot end with ASTM F 477-02 elastomeric gaskets.

D. Pipe Fittings: (type as specified in Contract Documents):

1. Ductile Iron Compact Fittings 3 inch through 24 inch: ANSI/AWWA C 153

a. Pressure Class: 350 psi.

b. Petroleum Asphaltic Outside Coating: 1.0 mil minimum thickness.

c. Lining: Cement mortar.

2. Ductile or Gray Iron Fittings: ANSI/AWWA C 110

a. Pressure Class: 4 inch to 24 inch = 350 psi, and 30 inch to 36 inch = 250 psi.

b. Petroleum Asphaltic Outside Coating: 1.0 mil minimum thickness.

c. Lining: Cement mortar.

3. PVC Fittings 4 inch through 8 inch: ANSI/AWWA C 907.

a. Pressure Class: 150 psi.

E. Rubber Gasket Joints for Ductile Iron Pressure Pipe and Fittings: ANSI/AWWA C 111.

2.3 DUCTILE IRON PIPE AND FITTINGS

A. Ductile Iron Pipe, 3 inch through 64 inch, Centrifugally Cast, for Water: ANSI/AWWA C 151

1. Thickness Class: As indicated in the Contract Documents.

2. Lining: Cement mortar.

3. Joints: Push-on unless otherwise noted in the Contract Documents.

B. Flanged Ductile Iron Pipe with Ductile Iron or Gray Iron Threaded Flanges: ANSI/AWWA C 115

1. Pressure Class: 250 psi.

2. Lining: Cement mortar.

C. Ductile Iron Compact Fittings Using Mechanical or Push-on Joints, 3 inch through 24 inch: ANSI/AWWA C 153

1. Pressure Class: 350 psi.

2. Lining: Cement mortar.

D. Ductile Iron or Gray Iron Fittings Using Mechanical, Flanged, or Push-on Joints, 3 inch through 24 inches: ANSI/AWWA C 110

1. Pressure Class for Mechanical or Push-on Ductile Iron Joints: 350 psi.

2. Pressure Class for Flanged Ductile Iron Joints: 250 psi.

3. Pressure Class for all Gray Iron Joints: 250 psi.

4. Lining: Cement mortar.

E. Ductile Iron or Gray Iron Fittings Using Mechanical, Flanged, or Push-on Joints, 30 inches through 48 inches: ANSI/AWWA C 110

1. Pressure Class for all Material and Joint Types: 250 psi.

2. Lining: Cement mortar.

F. Rubber Gasket Joints Ductile Iron Pressure Pipe and Fittings: ANSI/AWWA C 111

G. Outside Coating for Pipe and Fittings: ANSI/AWWA C 110

1. Petroleum Asphaltic Outside Coating: 1.0 mil minimum thickness.

2.4 CEMENT MORTAR LINING

A. Cement Mortar Lining for Ductile-Iron Pipe and Fittings for Water: ANSI-AWWA C 104

1. Thickness: Standard, single thickness.

2. Seal Coat: Yes.

2.5 POLYETHYLENE PIPE AND FITTINGS

A. PE Pressure Pipe and Fittings for Water Distribution: ANSI/AWWA C 906

1. Standard PE Designation: PE 3406.

2. Outside Diameter Base: Steel pipe (IPS).

3. Dimension Ratio: As indicated in the Contract Documents.

4. Fittings: PE 3406, thermal butt-fusion welded per ASTM D 3261.

2.6 COUPLINGS

A. Couplings: Smith-Blair OMNI 441 coupling system, or approved substitution. Couplings shall be lined and coated with a minimum thickness of 0.012" of fusion-bonded epoxy, or approved substitution. Coating must comply with ASTM C213 and AWWA C550.

B. Flanged Coupling Adapters: Smith-Blair 912, or approved substitution. Couplings shall be lined and coated with a minimum thickness of 0.012" of fusion-bonded epoxy, or approved substitution. Coating must comply with ASTM C 213 and AWWA C 550.

C. HDPE Couplings: Electrofusion couplings to solid wall HDPE and flange by flange elsewhere or as directed by the Engineer.

2.7 POLYETHYLENE ENCASEMENT

A. Polyethylene Encasement for Ductile Iron Pipe Systems: ANSI/AWWA C 105

1. Material: ASTM D 1248 tubular high density cross laminated film.

2. Class: C, Black.

2.8 THRUST BLOCKS

A. Concrete: Per Section 703 – Cast-in-Place Concrete. Minimum compressive strength of 2500 psi.

B. Placement: Per this section and Standard Drawing SD-403 – Thrust Block and Anchor Details.

2.9 MECHANICAL RESTRAINT

A. Type: Standard mechanical joint restraint gland, *restraint devices for MJ fittings and appurtenances to conform to ANSI/AWWA C111/A21.11 or ANSI/AWWA C153/A21.53.*

B. Product: EBAA iron series 2000 PV (PVC Pipe) or *EBAA Iron Series 1100* Megalug (Ductile Iron Pipe) or approved substitution, *and to meet requirements of ASTM F 1674. An identification number consisting of year/day/plant/shift to be cast into each gland body from which to trace test results.*

C. Application: Approved for above-grade installation. Belowground installation *as an alternative to thrust blocks* is to be only upon approval of the Engineer and the Idaho Department of Environmental Quality based on service and installation conditions.

2.10 LOCATING WIRE

A. Type: (No. 12 AWG) copper with insulation.

B. Splicing: Epoxy splice kits.

2.11 PIPE ANCHORS

A. Concrete and Rebar: per Section 703 – Cast-in-Place Concrete and Standard Drawing SD-510 – Pipe Anchors.

2.12 HEALTH REQUIREMENTS

A. NSF-61 Compliance: All products in contact with potable water must comply with the requirements of NSF-61. Affidavits of compliance may be required.

PART 3 WORKMANSHIP

3.1 EXAMINATIONS

A. Verify trench excavations are to required alignment and grade and pipe location meets Section 405 – Non-Potable Water Line Separation.

B. Verify that trench conditions and shoring, sheeting, and bracing protect workers and meet the requirements of OSHA and other State and Federal Requirements.

C. Verify that excavation will allow a minimum pipe cover of 48 inches, unless otherwise indicated in the Contract Documents.

D. Examine pipe and fittings for defects or damage.

E. Verify all pipe, fittings, aggregate, and all materials delivered to the site meet the requirements of these Contract Documents.

F. Verify utility locations, existing piping locations and structures where connections are to be made prior to beginning work. Notify the Engineer if field conditions are different from the Contract Documents. Allow 4 hours for the Engineer to modify the design, if necessary, unless otherwise specified.

G. Notify all affected businesses and residences of all water system shutdowns or interruptions 48 hours in advance.

3.2 PIPE INSTALLATION

A. Prepare trench bottom as required by Section 301 – Trench Excavation.

B. If excavation enters an area of petroleum or other contamination, stop work and notify the Engineer for verification of piping and gasket material usage. In such areas, use pipe and joint materials not subject to permeation by organic compounds. Use non-permeable materials for all portions of the system affected by organic contamination endangering water mains, services, and hydrant leads.

C. Do not lay pipe unless groundwater is 1 foot below the pipe invert and a foundation has been provided in accordance with Section 304 – Trench Foundation Stabilization.

D. Provide pipe bedding and initial backfill as required by Section 305 – Pipe Bedding.

E. Install pipe in accordance with the manufacturer's recommendations.

F. Use standard lengths of pipe unless otherwise required for installation of tees, fittings, or valves.

G. Utilize proper tools for cutting and beveling pipe ends and joining pipe. Use manufacturer's recommended tools designed for this task.

H. Move pipe carefully and prevent damage to pipe and manufactured ends while lowering pipe into trench.

I. Prevent foreign material including debris, tools, clothing, and dirt from entering the pipe. Remove dirt and other foreign material from pipe.

J. Prepare pipe joint using specified gasket and manufacturer's recommended lubricant.

K. Mark, or verify that pipe ends are marked, to indicate insertion stop position (home). Ensure that pipe is inserted into bell to this mark. Push spigot into bell using methods recommended by the manufacturer. Protect the end of the pipe during "homing" and do not use excessive force that may result in over-assembled joints, dislodged gaskets, or damaged ends. If full entry is not achieved, disassemble and clean the joint and reassemble.

L. Provide sufficient restraint for the pipe to ensure that joints are held in place while bedding and initial backfill are placed.

M. When pipe installation is not in progress, block and plug the open end of the pipe to prevent creep, uplift or floating and entrance of water or other material into the pipe.

N. Ensure pipe is installed to lines and grades indicated in the Contract Documents.

O. Place locating wire directly above pipe. Ensure that locating wire remains directly above pipe during and after backfill has been placed.

P. Install anchors and supports as indicated in the Contract Documents.

Q. Backfill trench as required by Section 306 – Trench Backfill.

3.3 POLYETHYLENE ENCASEMENT

A. Secure polyethylene encasement around pipe per ANSI/AWWA C 105 Method A.

B. Cut tube to a length 24 inches longer than the pipe section and wrap around pipe in accordion fashion.

C. After placement in trench and jointing, secure overlapping tubing. Provide 24 inches of overlap at each joint. Repair any cuts or tears with tape or patch secured in place.

3.4 THRUST BLOCKS

A. Place thrust blocks at each angled fitting, tee, cross, reducer, cap, plug and valve in accordance with Standard Drawing SD-403 – Thrust Block and Anchor Details.

B. Provide bearing area against undisturbed earth.

C. Place thrust blocks such that fitting or valve can be removed at a later date without damage to the pipeline, valve or fitting.

D. Place 6 mil polyethylene between thrust block and fitting.

E. Place concrete so no concrete touches the nuts and bolts of the fitting or valve, and the nuts and bolts can be removed and replaced without removing any concrete.

F. Thrust block bearing areas as listed on Standard Drawing SD-403 – Thrust Block and Anchor Details. For test pressures greater than 150 psi or soil bearing pressures less than 2,000 psi, increase thrust block bearing areas as directed by the Engineer.

3.5 PIPE ANCHORS

A. Place pipe anchors on all pipe installed on slopes of 20% or greater measured along the centerline of pipe. Install per Standard Drawing SD-510 - Pipe Anchors.

B. Provide bearing area against undisturbed earth.

3.6 PRESSURE TESTING

A. Perform testing in the presence of the Engineer.

B. Assure that trench is properly backfilled and thrust blocking has cured to a degree that will allow pressure testing without damage, or pipe/fitting movement.

C. Gradually fill pipe with water. For pipe working pressures less than or equal to 100 psi, sustain a test pressure of 150 psi. For pipe working pressures greater than 100 psi, sustain a test pressure at least 1.5 times the working pressure or as determined by the Engineer.

D. Expel all air.

E. Verify that, in a two-hour test, the pipe does not leak in excess of the allowable leakage as defined by the following formula in which L is the allowable leakage in gallons/hour.

$$L = \frac{ND(P)^{1/2}}{7{,}400}$$

Where:	L	=	Allowable Leakage	gallons / hour
	N	=	Number of Joints in Tested Line – including fittings	number
	D	=	Nominal Pipe Diameter	inches
	P	=	Test Pressure	psi, gauge

F. Pressure test HDPE pipe per ASTM F 2164-02 Field Leak Testing of Polyethylene (PE) Pressure Piping Systems using Hydrostatic Pressure.

3.7 LOCATING WIRE

A. Place locating wire at the crown of the pipe.

B. Test for and ensure continuity.

3.8 PIPE MARKERS

A. Furnish and install pipe markers at stub-outs per Standard Drawing SD-512 - Standard Service Marker.

B. Provide Engineer with 2 working days notice to allow measurement of the vertical and horizontal location of pipe ends before the pipeline is covered.

3.9 FLUSHING AND DISINFECTION

A. Flushing Prior to Disinfection.

1. Before chlorination, flush the mains thoroughly after the pressure and leakage test are completed.

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.

Table 1
REQUIRED FLOW AND OPENINGS TO FLUSH PIPELINES
40 PSI RESIDUAL PRESSURE IN WATER MAIN (1)

	Flow Required to Produce 2.5 fps (approx)	Size of Tap (Inch) (1)	(1-1/2)	(2)	Hydrant Outlets	
Pipe Diam. (inch)	Velocity in Main, (Gpm)	Number of taps on pipe (2)			Number	Size in (inch)
4	100	1			1	2-1/2
6	220		1		1	2-1/2
8	400		2	1	1	2-1/2
10	600		3	2	1	2-1/2
12	900			2	2	2-1/2
16	1600			4	2	2-1/2
1)	With a 40 psi pressure in the main with the hydrant flowing to atmosphere, a 2-1/2 inch hydrant outlet will discharge approximately 1,000 gpm and a 4-1/2 inch hydrant nozzle will discharge approximately 2500 gpm.					
2)	Number of taps on pipe based on discharge through 5 feet of galvanized iron (GI) pipe with one 90° elbow.					

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 on solvent welded plastic or screwed joint steel pipe.

3) Placement When Using Granules: During construction, place calcium hypochlorite granules at the upstream end of the first section of pipe, at the upstream end of each branch main, and at 500-foot intervals.

4) Granular Quantity: Refer to Table 2.

Table 2
OUNCES OF GRANULES

Pipe Diameter (inches)	Amount (ounces)
4	0.5
6	1.0
8	2.0
10	3.2
12	4.0
16	8.0
18	10.2
20	12.5
24	18.0

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 appurtenance. 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 tablets 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 tablets at the top.

6) Tablet Quantity: Refer to Table 3.

Table 3
NUMBER OF TABLETS (1)

Pipe Diameter (inches)	Number of 5g Tablets (2)
4	1
6	1
8	2
10	3
12	4
16	6
18	7
20	9
24	13

(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 dose. 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 in the main for at least 4 hours, operating all valves and hydrants in the section treated. At the end of the 24-hour period, verify the treated water in all portions of the main has a residual of 10 mg/L free chlorine.

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. Dispose of flushing water to a location approved by the Engineer.

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 of 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 pipe and fittings used in making the connections with a 1% hypochlorite solution before installation.

3.10 CONNECTIONS TO EXISTING MAINS

A. Expose existing main and verify line size and type of pipe.

B. Furnish and install necessary fittings to make connection.

C. Maximum allowable pipe gap at couplings is 1/2 inch.

D. Disinfect.

3.11 ABANDONMENT OF EXISTING MAINS

A. Expose main to be abandoned and verify line size and type of pipe.

B. Cut out existing fitting that connects abandoned main to pipe that is to remain in service.

C. Replace fitting with section of new pipe and required couplings.

D. Disinfect new pipe.

PART 4 MEASUREMENT AND PAYMENT

4.1 Use either the first or both of the following unit prices as designated on the Bid Schedule. If required and not listed in the Bid Schedule, the following Bid Items are to be considered incidental to other Bid Items.

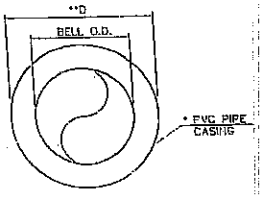
A. Water Main Pipe – Size _____ - Type _____: By the linear foot for the type and size of pipe measured along the horizontal centerline of the pipe through all fittings and valves. Includes pipe, (if not included as a separate Bid Item), fittings, connections, thrust blocks, restraint, cleaning, disinfection and testing, excavation, bedding, backfill and all appurtenances not itemized in the Bid Schedule.

1. Bid Schedule Payment Reference: 401.4.1.A.1.
2. Bid Schedule Description: Water Main Pipe – Size ____ - Type _____... linear foot (LF).

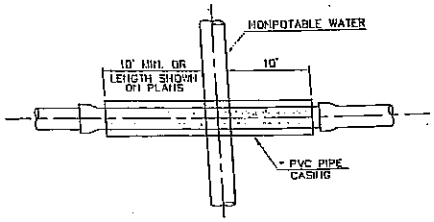
B. Water Main Fitting – Size _____ - Type _____: Per each for the type, size and material of the fitting. Includes fittings, connections, thrust blocks, restraint, cleaning, disinfection and testing, excavation, bedding, backfill and all appurtenances not itemized in the Bid Schedule.

1. Bid Schedule Payment Reference: 401.4.1.B.1.
2. Bid Schedule Description: Water Main Fitting – Size ____ - Type _____... each (EA).

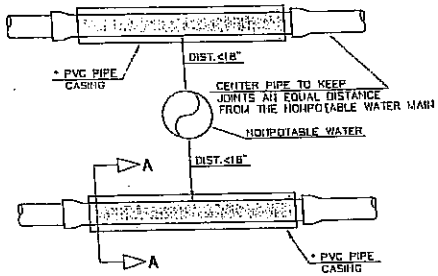
END OF SECTION



SECTION A-A



PLAN



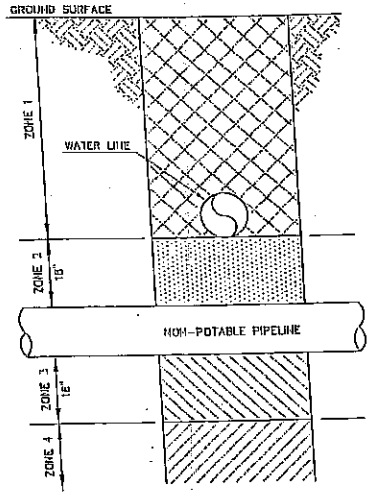
PROFILE

* SHALL BE RATED FOR POTABLE WATER. SPECIAL CONSIDERATIONS NOT REQUIRED WHEN THE WATERLINE IS MORE THAN 18" ABOVE OR BELOW THE NONPOTABLE WATER MAIN.

** SHALL BE LARGE ENOUGH TO FIT THE BELL O.D. WITHOUT DAMAGING THE PIPE.

WATERLINE ENCASEMENT DETAIL FOR NONPOTABLE WATER MAIN CROSSINGS (1 / UD3)

NO SCALE



NOTES:

AT ALL CROSSINGS, THE WATER LINE SHALL BE CENTERED AT THE CROSSING SO THAT JOINTS ARE EQUAL DISTANCE AND AS FAR AS POSSIBLE FROM THE NON-POTABLE PIPELINE.

ZONE 1:
WATER WITH MORE THAN 18" OF CLEARANCE ABOVE NON-POTABLE PIPELINE REQUIRES NO ADDITIONAL PRECAUTIONS.

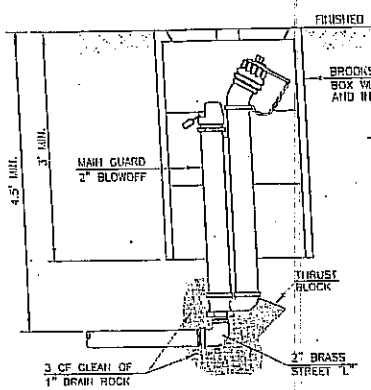
ZONE 2:
WATER IS LESS THAN 18" ABOVE TOP OF NON-POTABLE PIPELINE: EITHER A NON-POTABLE GRAVITY PIPELINE CAN BE CONSTRUCTED TO WATER LINE STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS FOR A MIN. HORIZONTAL DISTANCE OF 10' ON BOTH SIDES OF THE CROSSING.
OR
EITHER THE NON-POTABLE PIPELINE OR THE WATER LINE OR BOTH CAN BE ENCASED WITH A SLEEVING MATERIAL ACCEPTABLE TO DEQ FOR A DISTANCE OF 10 HORIZONTAL FEET ON BOTH SIDES OF THE CROSSING.

ZONE 3:
SAME REQUIREMENTS AS ZONE 2 EXCEPT THE NON-POTABLE PIPELINE MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

ZONE 4:
SAME REQUIREMENT AS ZONE 1 EXCEPT THE NON-POTABLE PIPELINE MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

TYPICAL WATER AND NON-POTABLE PIPELINE CROSSING VERTICAL SEPARATION REQUIREMENTS (2 / UD3)

NO SCALE



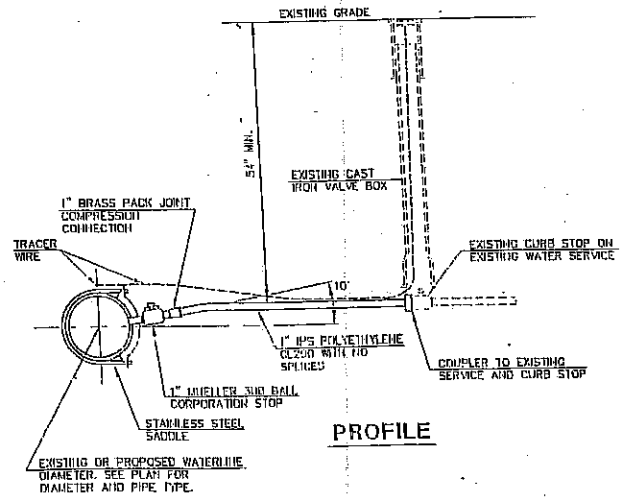
NOTES:

BLOWOFF HYDRANTS SHALL BE NONFREEZING, SELF DRAINING TYPE, WITH AN OVERALL LENGTH OF 4'. SET UNDERGROUND IN A BROOKS CONCRETE METER BOX. THESE HYDRANTS WILL BE FURNISHED WITH A 2" FIP INLET, A NON-TURNING OPERATING ROD, AND SHALL OPEN TO THE LEFT. ALL OF THE WORKING PARTS SHALL BE OF BRONZE-TO-BRONZE DESIGN, AND BE SERVICEABLE FROM ABOVE GRADE WITH NO DIGGING. THE OUTLET SHALL ALSO BE BRONZE AND BE 2-1/2" NST. HYDRANTS SHALL BE LOCKABLE TO PREVENT UNAUTHORIZED USE AS MANUFACTURED BY KUPFERLE FOUNDRY CO., ST. LOUIS, MO, OR APPROVED EQUAL.

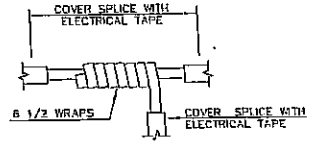
(SPECIFY OVERALL LENGTH 6" SHORTER THAN NORMAL DEPTH OF BURY. MINIMUM OPENING IN METER BOX SHOULD BE 10".)

2" BLOWOFF HYDRANT DETAIL (4 / UD3)

NO SCALE



PROFILE



TEE SPLICE

NO SCALE

NOTES:

1. CONTRACTOR TO VERIFY LOCATION OF CURB STOP AND METER VAULT PRIOR TO INSTALLATION.
2. CONTRACTOR TO VERIFY EACH SERVICE SIZE WITH CITY PRIOR TO INSTALLATION.
3. EXISTING SERVICE LINE SIZE VARIES AND MAY BE PVC, COPPER, HDPE, GALVANIZED, IRON OR OTHER TYPE OF MATERIAL.
4. ALL COMPONENTS OF THE WATER METER AND SERVICE CONNECTION MUST BE NSF 61 CERTIFIED.

WATER SERVICE RECONNECTION DETAIL (3 / UD3)

NO SCALE

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PROFESSIONAL ENGINEER REGISTERED Nicole M. Mahnke 11814 1/13/10 STATE OF IDAHO NICOLE M MAHNKE

WELCH-COMER ENGINEERS | SURVEYORS
www.welchcomer.com
1380 E. Tall Oaks Ave.
Coeur d'Alene, ID 83815
208-664-5832
(toll free) 877-815-3872
(fax) 208-664-5946

NO.	DATE	REVISION DESCRIPTION	BY

CITY BONNERS FERRY
PHASE 2A
WATER SYSTEM IMPROVEMENTS

DETAILS

PROJECT NO.:	15856
DESIGNED BY:	N.M.M.
DRAWN BY:	J.A.L.
CHECKED BY:	
DWG NAME:	15856DT03.DWG
DATE:	07-31-09
SHEET NO:	D3

NOTICE OF TORT

For Damage or Injury

ATTENTION:

This form is to be completed by the claimant and is a requirement that if used, be presented to and filed with the clerk or secretary of the public entity involved. This form is being provided as a courtesy to assist you in filing your claim. Providing this form to you, is not an admission nor shall it be construed to be an admission of liability or an acknowledgement of the validity of a claim by the political subdivision. Legal requirements for filing claims can be found in the Idaho Code: Title 6, Chapter 9. All claims must be filed promptly and in writing.

Name: Richard Flinn

Address: P.O. Box 2762

City: Hayden State: Idaho Zip Code: 83835

Address for the Six Months Prior to the Date of the Damage or Injury Occurred:

Home Number: (208) 659-9432 Work Number: (—) —

Date of Incident: August 1980 Time: _____ A.M. or P.M.

Location of Occurrence: 6849 Truman St.

Injuries that Resulted: None

RECEIVED

JAN 17 2014

CITY OF BONNERS FERRY

Provide a Description of What Happened:
(Please attach any additional information you deem necessary)

See Attached

I hereby certify that I have read the above information and it is true and correct to the best of my knowledge.

I hereby make a claim against City of Bonners Ferry Electrical Dept (a public entity)

for Damage (damage, injury, etc.) in the amount of $661.17.

If you were injured and you are on medicare/medicaid, please fill out the following as required by 42 U.S. C. 1395.

Date of Birth _____

SSN _____

Medicare/Medicaid Number _____

Signature: Richard E. Flinn Date: January 12, 2014

January 11, 2014

In the summer of 1979 I started to develop a small trailer park on Truman Street in Bonners Ferry.

In November **1979** I hired Stan Mastre Backhoe service to install water and sewer lines to 4 lots. (see receipt).

In August of **1980** I had the City of Bonners Ferry, Electrical Dept. install 2 transformers, and electrical to all 4 sites W.O. #2288 (see receipt).

On around November 26, 2013 I received a call from one of my tenants, Matt Solt and he told me he was having some issues with drainage, he had hired at his expense (which I reimbursed him) KG&T Septic Service to scope the line and they found a blockage in the sewer line. I contacted Lance Mastre of Mastre Backhoe and he was able to go down their the following week. Upon excavating they found that 2 of the sewer lines were damaged from the trenching in of the electrical lines in **1980** and that tree roots had gotten inside the sewer lines. The reason it took so long is that a tree root will search and look for water and over time this is what happened.

Lance contacted Alan Branson from Bonners Ferry Sewer Dept. to come down and inspect the damage, which he did and also took photos. It is my understanding that Steve Boorman, City Administrator has these photos.

Mastre Backhoe Service	Invoice #3449	$586.17
KG&T Septic Service	scoping of line	$75.00
	Total Expenses Incurred	$661.17

Thank You,

Richard Flinn

Richard Flinn
P.O. Box 2762
Hayden Idaho 83835

STATEMENT

DATE 11-21-79

NUMBER

STAN MASTRE BACKHOE SERVICE
Rt. 1 Box 408
BONNERS FERRY, IDAHO 83805

Phone 267-2559

Paid 11-30-79
check 186

Richard Flinn

TERMS

PLEASE DETACH AND RETURN WITH YOUR REMITTANCE $

DATE	CHARGES AND CREDITS	BALANCE	
Lot #1	BALANCE FORWARD		
	39'x 3/4 Galv water line	97	50
	36'x 4" Sewer line	117	00
Extra	39' Galv water line to		
	frostless faucet plus faucet + fixs	135	72
		350	22
Lot #2			
	66'x 3/4 Water line	165	00
	70'x 4" Sewer line	229	13
	Meter, yaunk, saddle, fixs	230	00
Extra	39'x 3/4 Galv water line		
	to frostless faucet plus faucet + fixs	135	72
		759	85

STAN MASTRE BACKHOE SERVICE

Thank You

PAY LAST AMOUNT IN THIS COLUMN

FORM 96

STATEMENT

STAN MASTRE BACKHOE SERVICE
Rt. 1 Box 408
BONNERS FERRY, IDAHO 83805

DATE 11-21-79
NUMBER

Phone 267-2559

Richard Flint

TERMS

PLEASE DETACH AND RETURN WITH YOUR REMITTANCE $

DATE	CHARGES AND CREDITS	BALANCE	
Lot #3	BALANCE FORWARD		
	66' x 3/4 water line	165	00
	51' x 4" Sewer line	165	75
	Meter, yoke, saddle, pay	230	00
Extra	39' x 3/4 Poly water line to frostless faucet plus fittings & pay	135	72
		696	47
Lot #4			
	66' x 3/4 water line	165	00
	72' x 4" Sewer line	234	00
	Meter, yoke, saddle, pay	230	00
Extra	39' x 3/4 Poly water line to frostless faucet plus fittings & pay	135	72
		764	72
	4 Lots Total	2571	26

STAN MASTRE BACKHOE SERVICE

Thank You

PAY LAST AMOUNT IN THIS COLUMN

FORM 96

BONNERS FERRY, IDAHO, 8-22 1980

CITY OF BONNERS FERRY

LIGHT AND WATER DEPARTMENT

Richard Flynn

Electric DEPARTMENT W.O. # 2288 Page 1 60814

3		8½" Stand off Brackets	@	6	24					18	72
1		S-1520 Hot Line Clamp	@	3	45					3	45
1		C70H2 13000 Chance Cutout	@	48	11					48	11
2		5/8 x 8 Ground Rods	@	9	11					18	22
2		5/8 Ground Clamps	@	1	46					2	92
2		Transformer Ground Lugs	@	1	68					3	36
300 ft		#2-15KV URD Wire	@		76					228	00
200 ft		4/0-4/0-2/0 URD Wire	@		94					188	00
1		Westinghouse 10KV Arrester	@	19	25					19	25
1		5805-3M Terminator	@	35	45					35	45
1		LP-2 Terminator Lug	@	4	07					4	07
1		MB-1 " Bracket	@	11	67					11	67
10 ft		1¼" Rigid Conduit	@		98					9	80
20 ft		1¼" PVC Conduit	@		41					8	20
9		1¼" Conduit Straps	@		55					4	95
2		Transformer Pads	@	76	02					152	04
4		PED 5-350 SS Lugs	@	16	20					64	80

BONNERS FERRY, IDAHO, 8-22 1980

CITY OF BONNERS FERRY

LIGHT AND WATER DEPARTMENT

Richard Flynn

Electric DEPARTMENT W.O. # 2288 Page 2

2		PTT 2-250 Lugs	@	6	50				13	00
4		LBT 112B2 Elbows	@	31	10				124	40
		Total							$ 958	41
		Labor:								
1		Lineman 23 HRS.	@	13	50				310	50
1		Lineman 23 HRS.	@	12	00				276	00
1		Groundman 23 HRS.	@	10	15				233	45
		Total							$ 819	95
		Labor charge							$ 819	25
		Material charge							$ 958	41
		Total Due							$ 1777	66

Remit Payment To:

Mastre Backhoe Service, Inc.
592 Longview Rd.
Bonners Ferry, ID 83805

Office 208-267-4046

Invoice

3449

Dec 24, 2013

Page: 1

Customer ID:
Flinn Richard

Richard Flinn
PO Box 2762
Hayden, ID 83835

Customer PO	Payment Terms	Due Date	
	Net 10 Days	1/3/14	

Quantity	Item	Description	Unit Price	Extension
		sewer line repair Matt Solt rental		
3.75	Backhoe	Backhoe	100.00	375.00
3.75	Service Truck	Service Truck	35.00	131.25
1.00	Plumbing	repair fittings and materials	79.92	79.92

Subtotal	586.17
Sales Tax	
Total Invoice Amount	586.17
Payment Received	
TOTAL	586.17

Check No:

NORTH BENCH PLUMBING & WATER SUPPLY

36 David Thompson Dr Suite #300
BONNERS FERRY ID 83805
208 267-9800
Fax 208 267-6016

KS+T

Customer's Order No. Date Nov 1 2013

Sold To Math Soft

Address

Phone:

Ship To

Address

SOLD BY	CASH	CHARGE	C.O.D.	VIA	☐ PREPAID ☐ COLLECT

✓	QUANTITY	DESCRIPTION	PRICE	AMOUNT
1		Camera Lens		75 00
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14		TAX		
15		TOTAL		75 00

All claims and returned goods MUST be accompanied by this bill.

0009864 Rec'd By

GSD-204-3
PRINTED IN U.S.A.

PRINTED WITH SOY INK

Thank You