

La Plata West Water Authority

RAW WATER PROJECT

CONTRACT 1: Raw Water Pumping Facilities and Pipeline

CONTRACT 2: Underwater Installation of Intake Screen(s)

CONTRACT 3: Lake Durango Treated Water Pipeline

ADDENDUM NO. 1

November 18, 2015

TO ALL BIDDERS:

Contractors submitting proposals for the above referenced project shall take note of the following changes, additions, deletions, clarifications, etc. to the Plans and Specifications which shall become a part of and have precedence over anything shown or described in the Contract Documents and shall be taken into consideration and be included with Contract Documents for the referenced project.

NOTE: Bidders must acknowledge receipt of Addenda on the first page of Document C-410 BID FORM and sign below and attach this sheet to the bid submittal.

Company

BARTLETT & WEST, INC.



Signature

Jeff Shamburg, P.E.

GENERAL CLARIFICATIONS

- A. The BID DATE is being postponed until December 10, 2015, same time and place.
- B. There will be 5% retainage throughout the entire project.
- C. Coordination for access to federal property for contractor site visits has been completed for November 19, 2015 during business hours. Access to this property is by foot only and with no ground-disturbing activities without prior permission. Other times may be available for additional site visits. Contact Engineer to coordinate.
- D. Sign in sheet and agenda from pre-bid conference have been provided as an attachment to this addendum for the contractor's general information. Nothing in the agenda should be considered an official change to the bidding documents unless otherwise provided in this addendum.
- E. Addendum #2 for all contracts should be expected by November 25, 2015. This addendum will address pending substitution requests along with other document modifications that couldn't be fully incorporated into Addendum #1.
- F. Electric trenching and backfill is now included in Contract 1, Bid Package 3, Item 13. The trench for primary electric service shall be constructed on offset stationing 5' East from the transformer pad at the intake to Sta 0+00, 5'E to Sta 40+00, 5'E, then continuing to the location near the booster station where LPEA transfers from overhead power to buried power. Alternately, the contractor may provide a bench along the east edge of the waterline trench for electric service installation, provided the benched trench meets LPEA trenching standards. Utility will install electric cable in trench prior to backfill by contractor. Trench standards are provided as an attachment to this addendum. Measurement and Payment for this item will be per linear foot of trench, excavated and backfilled. Rock excavation for this item will be subsidiary to trench excavation.
- G. Valves in the booster station mistakenly called out as both gate valves and butterfly valves shall be butterfly valves. Revised drawings will be included in Addendum #2 to clarify equipment tag changes.

DRAWINGS

- A. Replace sheets G101, C148, and C149 with the attached sheets. Note modifications to the outlet structure and riprap.

TECHNICAL SPECIFICATIONS

- A. C-111

1. Delete this section in its entirety and replace it with Document C-111 with a date of 10/18/15 in the footer, attached to this addendum.

B. C-410 – Contract #1

1. Delete this section in its entirety and replace it with Document C-410 with a date of 10/18/15 in the footer, attached to this addendum.

C. C-520

1. DELETE “90” at the beginning of items a and b of 6.02.1 and this section and replace it with “95”.

D. Section 00820

1. SC-19.06

DELETE this section in its entirety.

2. Exhibit B

DELETE this section in its entirety.

E. Section 409000

1. ADD Section 1.02.C as follows:

C. Integrator Pre-Qualification Request shall include the following information:

1. Years experience performing systems integration in the Water & Wastewater field.
2. Applicable Certifications or Manufacturer Program memberships.
3. Name, credentials and location of nearest designated service agent.
4. Overall project approach including:
 - a. Control narrative demonstrating understanding of overall system operations.
 - b. Network/equipment diagram.
 - c. Proposed SCADA/Remote HMI implementation to meet Section 409000.1.12.A requirements.
5. References (Provide 3 minimum).

**La Plata West Water Authority
Lake Durango Water Authority
La Plata County, Colorado
Raw Water Project**

ADVERTISEMENT FOR BIDS

Sealed Bids for the construction of the Raw Water Project will be received, by La Plata West Water Authority and Lake Durango Water Authority, at the office of Bartlett & West, Inc., 1199 Main Ave., Suite 209, Durango, Colorado 81301, until 2:00 PM local time on December 10, 2015, at which time the Bids received will be publicly opened and read. The Project consists of constructing an Intake Pumping Station, Booster Pump Station, Water Intake Screen(s), raw water pipeline and appurtenances, treated water pipeline and appurtenances, and other associated Work.

Bids will be received for a three Contracts:

Contract 1: Raw Water Pumping Facilities and Pipeline

Contract 2: Underwater Installation of Cylindrical Water Intake Screen(s)

Contract 3: Lake Durango Treated Water Pipeline

Bids shall be on a lump sum and unit price basis, with alternate bid items as indicated in the Bid Form.

The Issuing Office for the Bidding Documents is:

Bartlett & West, Inc.

1199 Main Ave., Suite 209

Durango, CO 81301

(970) 306-0924

Jeffrey Shamburg, PE

jeff.shamburg@bartwest.com

Prospective Bidders may examine the Bidding Documents at the Issuing Office on Mondays through Fridays between the hours of 9:00 AM – 4:00 PM, and may obtain copies of the Bidding Documents from the Issuing Office as described below.

Bidding Documents may be viewed and ordered online by registering with the Issuing Office at their website (<http://www.bartwest.com>, follow “Bid Documents” link). Following registration and payment of \$40 download fee, complete sets of Bidding Documents may be downloaded from the Issuing Office’s website as “zipped” portable document format (PDF) files. The cost of printed Bidding Documents, including shipping from the Issuing Office is \$400 for Contract 1 and Contract 3 documents and \$40 for Contract 2 documents. Cost of Bidding Documents and shipping is non-refundable. The date that the Bidding Documents are transmitted by the Issuing Office will be considered the Bidder’s date of receipt of the Bidding Documents. Partial sets of the Bidding Documents will not be available from the Issuing Office.

A pre-bid conference will be held at 10:00 AM local time on November 10, 2015 at La Plata Electric Association, 45 Stewart St., Durango, Colorado. Attendance at the pre-bid conference is highly encouraged but is not mandatory.

Bid security shall be furnished in accordance with the Instructions to Bidders.

Owner: La Plata West Water Authority (Contracts 1 & 2), Lake Durango Water Authority
(Contract 3)

By: Roy Horvath

Title: President, LPWWA

Date: October 30, 2015

+ + END OF ADVERTISEMENT FOR BIDS + +

BID FORM FOR CONSTRUCTION CONTRACTS

Prepared by



Issued and Published Jointly by



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BID FORM

Contract 1: Raw Water Pumping Facilities and Pipeline

Raw Water Project

La Plata West Water Authority

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ARTICLE 1 – BID RECIPIENT

- 1.01 This Bid is submitted to:

Bartlett & West, Inc.

c/o La Plata West Water Authority

1199 Main Ave, Suite 209

Durango, CO 81301

- 1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

- 2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

- 3.01 In submitting this Bid, Bidder represents that:

- A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

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

- B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

- E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.
- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and

4. “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

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

Bid Package 1: Intake Pump Station

Base Bid Item 1: Intake Pump Station	\$
Bid Item 2: Sitework and Yard Piping	\$
Bid Item 3: Instrumentation and Control	\$
Alternate 1 Add: Air Burst System	\$
Alternate 2 Add: Bridge Crane	\$

Total of All Lump Sums \$ _____

Bid Package 2: Booster Pump Station

Base Bid Item 1: Booster Pump Station	\$
Bid Item 2: Sitework and Yard Piping	\$
Bid Item 3: Instrumentation and Control	\$
Alternate 1 Deduct: Alternate Pump Configuration 1	\$
Alternate 2 Deduct: Alternate Pump Configuration 2	\$
Alternate 3 Add: Extended Performance Test	\$

Total of All Lump Sums \$ _____

Bid Package 3: 210 Pipeline and Access Road**UNIT PRICE BID**

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
1	Unclassified Excavation	CF	7,800		
2	Rock Excavation	CY	2,000		
3	Roadway Sub-Base	CY	1,800		
4	Roadway Base	CY	870		
5	18" Storm Sewer Culvert Pipe	LF	135		
6	24" Storm Sewer Culvert Pipe	LF	190		
7	30" Ductile Iron Pipe	LF	4,000		
8	30" 11 1/4° Bend	EA	6		
9	30" 22 1/2° Bend	EA	7		
10	30" 45° Bend	EA	7		
11	Air/Vacuum Valve	EA	1		
12	Pig Retrieval Manhole	EA	1		
13	Electric Trenching and Backfill	LF	4,150		
Total of All Unit Price Bid Items					\$
A1	Alternate Add Minimum Bury Depth – 60"	LF	4,000		

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

Bid Package 4: 125 Pipeline**UNIT PRICE BID**

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
1	8" DR 18 (CL 235) AWWA C-900 PVC Pipe	LF	8,975		
2	8" DR 25 (CL 165) AWWA C-900 PVC Pipe	LF	3,045		
3	8" DR 18 (CL 235) AWWA C-900 RJ PVC Pipe	LF	300		
4	Rock Excavation	CY	356		
5	NOT USED				
6	8" 11 1/4° Bend and Block	EA	4		
7	8" 11 1/4° Vertical Bend and Block	EA	6		
8	8" 22 1/2° Bend and Block	EA	5		
9	8" 22 1/2° Vertical Bend and Block	EA	1		
10	8" 45° Bend and Block	EA	2		
11	8" 90° Bend and Block	EA	2		
12	8" 90° Vertical Bend and Block	EA	1		
13	8" Gate Valve, Buried	EA	1		
14	8" Type 2 Road Crossing	LF	2		
15	8" Low Point Drain	EA	11		
16	Air/Vacuum Valve	EA	4		
17	Remove and Replace Gravel Surface	SY	270		
18	Remove and Replace Asphaltic Concrete Pavement	SY	73		
19	High Pressure Gas Main Crossing	LS	1		
Total of All Unit Price Bid Items					\$

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
A1.1	10" DR 18 (CL 235) AWWA C-900 PVC Pipe	LF	3,100		
A1.2	10" DR 25 (CL 165) AWWA C-900 PVC Pipe	LF	8,920		
A1.3	10" DR 18 (CL 165) AWWA C-900 RJ PVC Pipe	LF	300		
A1.4	Rock Excavation	CY	378		
A1.5	NOT USED				
A1.6	10" 11 1/4° Bend and Block	EA	4		
A1.7	10" 11 1/4° Bend and Block	EA	6		
A1.8	10" 22 1/2° Bend and Block	EA	5		
A1.9	10" 22 1/2° Vertical Bend and Block	EA	1		
A1.10	10" 45° Bend and Block	EA	2		
A1.11	10" 90° Bend and Block	EA	2		
A1.12	10" 90° Vertical Bend and Block	EA	1		
A1.13	10" Buried Gate Valve	EA	1		
A1.14	10" Type 2 Road Crossing	LF	2		
A1.15	10" Low Point Drain	EA	11		
A1.16	Air/Vacuum Valve	EA	4		
A1.17	Remove and Replace Gravel Surface	SY	270		
A1.18	Remove and Replace Asphaltic Concrete Pavement	SY	73		
A1.19	High Pressure Gas Main Crossing	LS	1		
Total of All Alternate 1 Unit Price Bid Items					\$

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
A2.1	16" DR 18 (CL 235) AWWA C-900 PVC Pipe	LF	12,020		
A2.2	16" DR 18 (CL 235) AWWA C-900 RJ PVC Pipe	LF	300		
A2.3	Rock Excavation	CY	444		
A2.4	NOT USED				
A2.5	16" 11 1/4° Bend and Block	EA	4		
A2.6	16" 11 1/4° Bend and Block	EA	6		
A2.7	16" 22 1/2° Bend and Block	EA	5		
A2.8	16" 22 1/2° Vertical Bend and Block	EA	1		
A2.9	16" 45° Bend and Block	EA	2		
A2.10	16" 90° Bend and Block	EA	2		
A2.11	16" 90° Vertical Bend and Block	EA	1		
A2.12	16" Buried Gate Valve	EA	1		
A2.13	16" Type 2 Road Crossing	LF	2		
A2.14	16" Low Point Drain	EA	11		
A2.15	Air/Vacuum Valve	EA	4		
A2.16	Remove and Replace Gravel Surface	SY	270		
A2.17	Remove and Replace Asphaltic Concrete Pavement	SY	73		
A2.18	16" Tee and Cap Assembly	EA	1		
A2.19	High Pressure Gas Main Crossing	LS	1		
Total of All Alternate 2 Unit Price Bid Items					\$

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
A2.21	Alternate Add Minimum Bury Depth – 60"	LF	12,320		

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

Bid Package 5: Lake Durango Pipeline**UNIT PRICE BID**

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
1	8" DR 25 (CL 165) AWWA C-900 PVC Pipe	LF	7,220		
2	Rock Excavation	CY	215		
3	8" 11 1/4° Bend and Block	EA	11		
4	8" 22 1/2° Bend and Block	EA	8		
5	8" 45° Bend and Block	EA	4		
6	8" 90° Bend and Block	EA	3		
7	8" Gate Valve, Buried	EA	3		
8	8" Type 3 Road Crossing	LF	1		
9	8" Low Point Drain	EA	4		
10	Fire Hydrant Assembly	EA	1		
11	Air/Vacuum Valve	EA	5		
12	Remove and Replace Gravel Surface	SY	61		
13	Outlet Structure	LS	1		
Total of All Unit Price Bid Items					\$
A1	Alternate Add Minimum Bury Depth – 60"	LF	7,220		

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

Time of Completion

- 5.02 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 5.03 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 6 – ATTACHMENTS TO THIS BID

- 6.01 The following documents are submitted with and made a condition of this Bid:
- A. Required Bid security;
 - B. List of Proposed Subcontractors;
 - C. List of Proposed Suppliers;
 - D. List of Project References;
 - E. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;
 - F. Contractor's License No.: (if applicable); and
 - G. Required Bidder Qualification Statement with supporting data

ARTICLE 7 – DEFINED TERMS

- 7.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 8 – BID SUBMITTAL

BIDDER: Indicate correct name of bidding entity

By:

Signature _____

Printed name _____

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

Signature _____

Printed name _____

Title: _____

Submittal Date: _____

Address for giving notices:

Telephone Number: _____

Fax Number: _____

Contact Name and e-mail address: _____

Bidder's License No.: _____

(where applicable)

**La Plata West Water Authority
La Plata County, Colorado
Raw Water Project
Pre-Bid Meeting Agenda
November 10, 2015**

- 1) Introductions
- 2) Bid Date: December **3 at 2:00 p.m. at Bartlett & West's Durango office.**
- 3) Construction Period: Substantial: October 3, 2016, Final: November 30, 2016.
- 4) Alternate Bid Items: Add or Deduct from Total Base Bid
- 5) Bid Security, Qualifications Statement are required with Bid.
- 6) No prevailing wage requirements.
- 7) Insurance: Instructions to Bidders, Article 20, GC/SC Article 6.
- 8) Taxes: Instructions to Bidders, Article 22. Do not include sales tax in bid. Exemption number can be provided if needed.
- 9) Geotechnical reports are available upon request.
- 10) Contracts
 - a) Contract 1: Approx 4.5 miles of 8" (Base Bid) PVC and 30" DIP Waterline, Pump Stations and access road.
 - b) Contract 2: Underwater construction of intake screens.
 - c) Contract 3: Approx 5400' of 4" Potable Waterline and residential meters.
- 11) Site Description.
- 12) Owner Provided Products: No Owner Provided Products.
- 13) I&C
 - a) Prequalification Required. Prequal requests must be submitted by qualified bidders (not direct from subcontractors) no less than 14 days prior to bid. See experience and service requirements in Section 409000.
- 14) Assigned Contracts: No assigned contracts.
- 15) Testing services and construction surveying are Bidders responsibility, Ref Section 014500. Control points are shown in Civil Drawings. If there are any issues with the control points, Bartlett & West will check them, or reset.
- 16) Electrical Power:
 - a) Temporary utility power is not anticipated to be available on site during construction. Contractor to provide temporary generator power as required.
- 17) Temporary Potable Water:

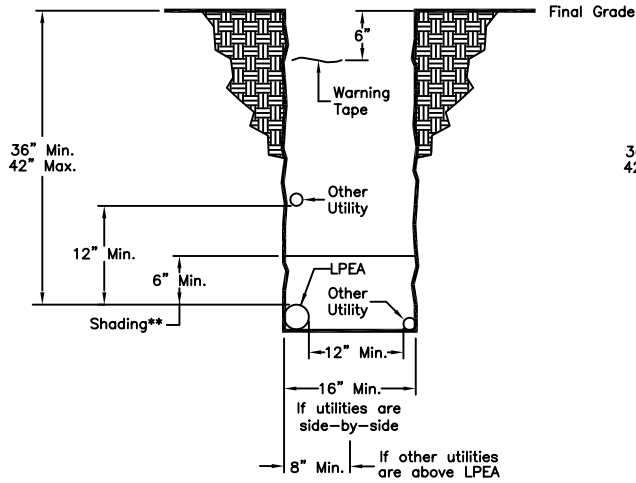
- a) From LDWA, Contractor will be responsible for costs associated with utilizing a hydrant meter and backflow preventer for a temporary connection. Confirm details with Charlie Smith, LDWA Manager for availability and rate.
- 18) Office space required for Owner's site representatives 015210. Office space provided under Contract 1 only.
- 19) Contractor responsible for Stormwater Permit. Owner will submit Pre-Construction Notice to USACE prior to award.
- 20) Site Visits: Coordinate with Engineer for site access on federal lands. Prior notification is required.
- 21) We anticipate Addendum No. 1 being sent out November 13. Latest an addendum will likely be sent out is December 1.
- 22) Contact Information:
 - Primary Contact:
 - Jeff Shamburg, Bartlett & West
 - Work: (970) 422-1678
 - Cell: (970) 403-5023
 - E-mail: jeff.shamburg@bartwest.com
- 23) Questions

End

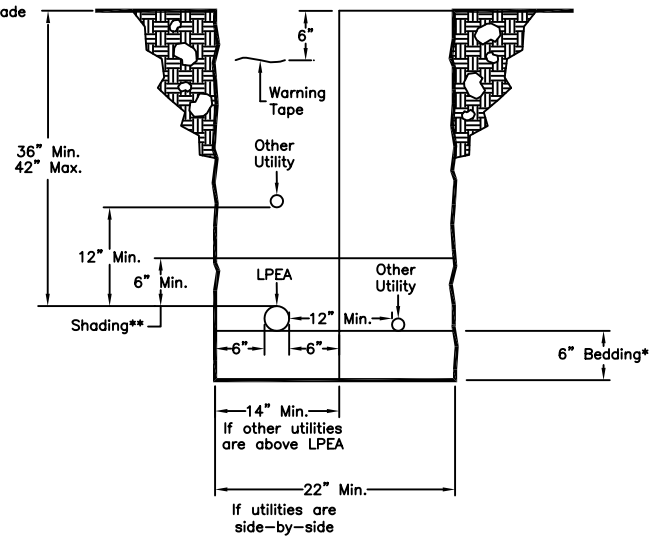
LPWWA Pre-Bid Opening Signup Sheet

Name	Company	E-mail	Phone
Josh Flint	AUI, Inc	joshc@auinc.net	505-242-4848
Tyson Keast	Moltz Const. Inc.	tyson@moltzconstruction.com	719-539-7319
William Dalton	Williams Const.	will@williamsconstruction.biz	970-327-4218
Dustin Rardin	Border States Elec.	drardin@borderstates.com	505-566-5022
Jerry Lucus	CRG Const.	jlucas@CRGconstructioninc.com	970-749-1231
Sean Voss	Garney Const	svoss@garney.com	719-233-2923
Davy Malinsky	Triad Western	dmalinsky@triadwestern.com	970-779-9302 970-565-6183
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Vergil Gray	WCA	vgray@wcacontracting.com	970-749-1227
Jason Kaye	GJ Pipe	Jason.kaye@gjpipe.com	970-385-6733
Dan Miller	Oldcastle SW Group	dmiller@telluridegravel.com	970-728-3775
James Adrox	Grand Junction Winwater	jhadcox@winwaterworks.com	970-255-9015
Jason Chapman	Accurate Backhoe & Excavation, LLC.	accuratebackhoe@msn.com	970-749-5606
Arn Davis	Velocity Const. Inc.	adavis@velocityci.com	303-984-7800
Robert Rogstad	Velocity Const. Inc.	rrogstad@velocityci.com	303-984-7800

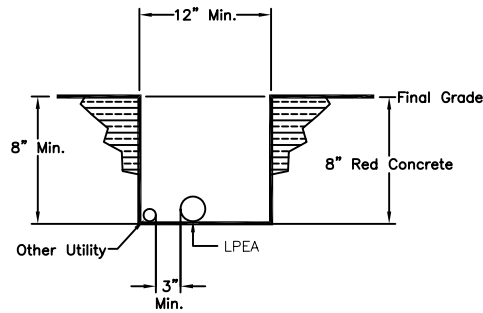
CLEAN SOIL



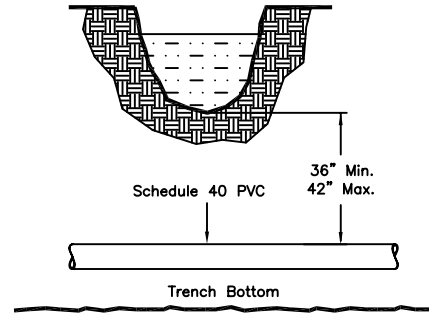
ROCKY SOIL



SOLID ROCK



IRRIGATION DITCH



NOTES:

3" GREY SCHEDULE 40 PVC SLEEVE REQUIRED ON ALL SINGLE PHASE ROAD CUTS.
8" GREY SCHEDULE 40 PVC SLEEVE REQUIRED ON ALL THREE PHASE ROAD CUTS.
8" HDPE PIPE WILL BE UTILIZED FOR ALL BORES

WARNING TAPE SUPPLIED BY LPEA; INSTALLED BY CUSTOMER.

* BEDDING (ROCK FREE DIRT OR SAND) TO BE SUPPLIED AND INSTALLED BY CUSTOMER.

** SHADING (ROCK FREE DIRT OR SAND) TO BE SUPPLIED BY CUSTOMER; INSTALLED BY LPEA CREW.
SHADING MUST BE SUPPLIED IN 20' INCREMENTS ALONG THE DITCH.

NO.	DATE	REVISIONS	APP'D	<div style="text-align: center;"> <h1>LPEA</h1> <p>La Plata Electric Association, Inc.</p> <p>A Touchstone Energy Cooperative</p> <p>PO Box 2750 Durango CO 81302-2750 COLORADO 32 LaPLATA</p> </div>	DRAWN JDD	<div style="text-align: center;"> <h2>UG TRENCH AND BEDDING SPECIFICATIONS</h2> <p>PRIMARY</p> </div>	
					CHECKED		
					APPROVED		
					DATE 06/26/08		
					FILE NAME SPEC1.dwg		
						SCALE NONE	DRAWING NUMBER SPEC 1

SHEET INDEX

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4	G103	SURVEY CONTROL
5	G104	SHEET LOCATIONS - INTAKE TO BOOSTER STATION
6	G105	SHEET LOCATION - BOOSTER STATION TO LAKE DURNAGO
7	G106	GENERAL NOTES & UTILITY CONTACTS
CIVIL		
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10	C102	EROSION & SEDIMENT CONTROL PLAN - INTAKE SITE
11	C103	EROSION & SEDIMENT CONTROL PLAN - BOOSTER STATION SITE
12	C104	EROSION & SEDIMENT CONTROL DETAILS
INTAKE ACCESS ROADWAY & WATERLINE		
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14	C106	INTAKE ACCESS ROADWAY ROADWAY PLAN & PROFILE
15	C107	INTAKE ACCESS ROADWAY ROADWAY PLAN & PROFILE
16	C108	INTAKE ACCESS ROADWAY ROADWAY PLAN & PROFILE
17	C109	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
18	C110	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
19	C111	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
20	C112	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
21	C113	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
22	C114	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
23	C115	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
24	C116	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
25	C117	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
26	C118	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
27	C119	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
28	C120	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
29	C121	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
30	C122	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
31	C123	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
32	C124	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
33	C125	INTAKE ACCESS ROADWAY ROADWAY SECTIONS
34	C126	INTAKE ACCESS ROADWAY DETAILS
35	C127	INTAKE ACCESS ROADWAY DETAILS
36	C128	INTAKE ACCESS ROADWAY DETAILS

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37	C129	WATER PIPELINE STA 50+00 - 60+00
38	C130	WATER PIPELINE STA 60+00 - 70+00
39	C131	WATER PIPELINE STA 70+00 - 80+00
40	C132	WATER PIPELINE STA 80+00 - 90+00
41	C133	WATER PIPELINE STA 90+00 - 100+00
42	C134	WATER PIPELINE STA 100+00 - 110+00
43	C135	WATER PIPELINE STA 110+00 - 120+00
44	C136	WATER PIPELINE STA 120+00 - 130+00
45	C137	WATER PIPELINE STA 130+00 - 139+00
46	C138	WATER PIPELINE STA 139+00 - 150+00
47	C139	WATER PIPELINE STA 150+00 - 160+00
48	C140	WATER PIPELINE STA 160+00 - 170+00
49	C141	WATER PIPELINE STA 170+00 - 180+00
50	C142	WATER PIPELINE STA 180+00 - 190+00
51	C143	WATER PIPELINE STA 190+00 - 199+00
52	C144	WATER PIPELINE STA 199+00 - 209+00
53	C145	WATER PIPELINE STA 209+00 - 220+00
54	C146	WATER PIPELINE STA 220+00 - 229+00
55	C147	WATER PIPELINE STA 229+00 - 239+00
56	C148	WATER PIPELINE STA 239+00 - 245+17
57	C149	WATER PIPELINE STA 245+15 OUTLET STRUCTURE
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59	C151	INTAKE GRADING PLAN
60	C152	INTAKE METER VAULT
61	C153	BOOSTER STATION SITE PLAN
62	C154	BOOSTER STATION GRADING PLAN
63	C155	BOOSTER STATION YARD PIPING
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66	C158	CIVIL DETAILS
67	C159	CIVIL DETAILS

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69	A102	INTAKE BUILDING REFLECTED CEILING PLAN
70	A103	INTAKE BUILDING ROOF PLAN
71	A111	BOOSTER BUILDING LEVEL-1 FLOOR PLAN
72	A112	BOOSTER BUILDING REFLECTED CEILING PLAN & ROOF PLAN
73	A201	INTAKE BUILDING EXTERIOR ELEVATIONS
74	A202	INTAKE BUILDING EXTERIOR ELEVATIONS
75	A211	BOOSTER BUILDING EXTERIOR ELEVATIONS
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77	A302	INTAKE BUILDING WALL SECTIONS
78	A311	BOOSTER BUILDING SECTIONS
79	A501	INTAKE & BOOSTER BUILDING ENLARGED DETAILS
80	A502	INTAKE & BOOSTER BUILDING ENLARGED DETAILS
81	A503	INTAKE & BOOSTER BUILDING ENLARGED DETAILS
82	A601	INTAKE & BOOSTER BUILDING FINISH, DOOR & WINDOW SCHEDULE

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84	S001	GENERAL NOTES
85	S002	SPECIAL INSPECTIONS
86	S101	INTAKE BUILDING FRAMING PLANS
87	S111	BOOSTER BUILDING FRAMING PLANS
88	S201	INTAKE BUILDING WALL ELEVATIONS
89	S202	INTAKE BUILDING WALL ELEVATIONS
90	S501	INTAKE BUILDING SECTIONS AND DETAILS
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98	D106	BOOSTER STATION PROCESS SECTIONS
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108	E200	INTAKE ELECTRICAL PLAN
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112	I100	INSTRUMENTATION SYMBOLS & LEGEND
113	I101	PROCESS & INSTRUMENTATION INTAKE
114	I102	PROCESS & INSTRUMENTATION BOOSTER STATION

BARTLETT & WEST

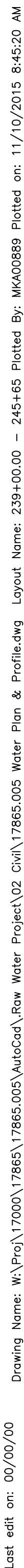
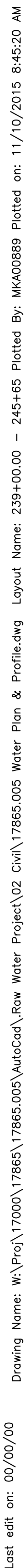
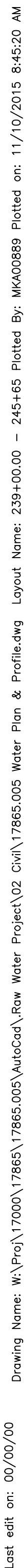
190 TALISMAN DR. UNIT D-1 PADOA SPRINGS, CO 81147
WWW.BARTLETTWEST.COM

SHEET INDEX

RAW WATER PROJECT
LA PLATA WEST WATER AUTHORITY
LA PLATA COUNTY, COLORADO



DESIGNED BY:	MKA
DRAWN BY:	MKA
APPROVED BY:	JAS
DESIGN PROJ:	17865.005
CONST PROJ:	----
SCALE:	AS NOTED
DATE:	OCT 2015
DRAWING NO:	G101
SHEET NO:	2 of 114



Drawing Name: W:\Proj\17000\17865\17865.005\AutoCad\Raw Water Project\02 Civil\17865.005 Water Plan & Profile.dwg
Layout Name: 239+00.00 - 245+65 Plotted By: MKA00889 Plotted on: 11/10/2015 8:45:20 AM
Last edit on: 00/00/00

