CALAVERAS COUNTY WATER DISTRICT
EBBETTS PASS WATER SYSTEM
REACH 1 WATER PIPELINE REPLACEMENT PROJECT

ADDENDUM #4

Issued: Thursday, February 21, 2019

***** Receipt of addenda must be acknowledged by Bidders on the BID FORM, Section 00410, Page 410-1; failure to acknowledge receipt may cause rejection of bid. *****

Bid Date (No Change): The current bid opening date and time is Tuesday, February 26, 2019 at 2:00 PM. Bids will be accepted at office of the Calaveras County Water District at 120 Toma Ct., San Andreas, CA 95249 no later than 2:00 PM local time on Tuesday, February 26, 2019, at which time all bids received will be publically opened and read aloud.

PART A. PROJECT MANUAL / SPECIFICATIONS

1. Delete prior bid form and used attached/revised bid form.
2. Note that pressure reducing/regulating valves for fire hydrant Detail W04B are not listed in Section 15114 and must be accounted for separately. Valves for fire hydrant Detail W04B are to have stainless steel trim, stainless steel tubing, opening and closing speed control, and fusion epoxy coating.
3. Appendix A, Trench Detail G05/Clarification: Trenches parallel to and within 5-ft of edge of pavement shall be backfilled and compacted with Class 2 AB to 95% relative compaction. Where Contractor's work disturbs the road shoulder surfacing, cleanup and restoration shall consist of finish grading, leveling and compacting the shoulder material and, to a width of 3-ft past edge of pavement, resurfacing with a minimum of 4-inches of compacted Class 2 A.B.
4. The District will equally accept aluminum covers conforming to Section 03405, or hot dip galvanized steel covers per Item 21, Sheet 67.
5. Appendix A, Detail W07B, Multi-Meter Manifold Service, revise 4" manifold line to be ductile iron pipe instead of C900 PVC.

PART B. DRAWINGS

1. On Sheet 5, at STA 14+30±, the stream crossing (ED-5) shall be according to Standard Detail G11 (not G09) extending across the full width of the stream channel. Move blow-off (BO) valve to the side/edge of the channel (not centered in channel). Move bottom 22½ degree bends to STA 14+25 and 14+35 to provide a level segment crossing under the stream.
2. On Sheet 12, at STA 46+75±, the stream crossing (ED-1) shall be according to Standard Detail G11 (not G09) extending across the full width of the stream channel.
3. On Sheet 25, at STA 111+40±, the stream crossing (ED-4) shall be according to Standard Detail G11 (not G09) extending across the full width of the stream channel.
4. On Sheet 51, at STA 245+60±, the stream crossing (ID-4) shall be according to Standard Detail G11 extending across the full width of the stream channel.

5. Where pipeline crosses below culverts on Sheets 20, 22, 24, 25. 28, 30, 38, and 50, backfill trench to bottom of culvert with controlled density fill/slurry (unit price per Bid Item 27). The slurry level shall terminate under the culvert's haunches in order to support the culvert. Delete any/all references to Detail G09 at these locations.

6. Where pipeline crosses wetlands, e.g. Sheet 18 (SEEP-1 and SEEP-2), Sheets 30 and 31 (DITCH-4 and 5), the first 1-ft of topsoil shall be removed and reserved and upon completion of trenching and underground work the reserved topsoil shall be returned at final backfill.

7. On Sheet 15, at STA 62+27.2, for connection to existing PRV#6 provide 12"x12"x6" branch tee with new 6" gate valve attached directly on main line tee.

8. On Sheet 31, at STA 143+86.2, for 8" water main connection on Darby Russell Rd provide new 12"x12"x8" main line tee and furnish new 8" gate valve directly on main line tee. Thrust block all tie-in connections between new and existing system.

9. On Sheet 32, at STA 146+36.2, delete connection to existing service.

10. On Sheet 32, at STA 148+82.5, provide new 12"x12"x4" mainline tee with new 4" gate valve for multi-meter connections per Detail W07B. Assume three (3) 1" water services on manifold to be paid at unit price per Bid Item No. 20.

11. On Sheet 42, at STA 197+31.3, provide new 12"x12"x8" mainline tee with new 8" gate valve for connection to existing water main in addition to as shown on plan view.

12. On Sheet 48, at STA 229+45.1, provide new 12"x12"x6" mainline tee with new 6" gate valve for connection to existing water main in addition to as shown on plan view.

PART C. BIDDER'S QUESTIONS / REQUESTS FOR INFORMATION

Q27. Question: The stormwater drawings by Thunder Mountain Enterprises (TME) Stormwater indicate "debris barrier" at a variety locations from station 30+75 to station 214+75. The legend indicates that the debris barrier is K-rail. Note 2 on the detail sheets states that the debris barrier consists of either plastic of modular concrete. The referenced debris barrier is not indicate on the KASL project plans. Is the debris barrier indicated on the TME stormwater drawings required?

A27. Answer: When working on benches above the highway, yes, the Contractor is required to provide a debris barrier or equal effective means of preventing piping materials, rocks, dirt, wood and other debris from rolling off or falling down the adjacent slopes and falling into highway lane or shoulder and endangering vehicular traffic and pedestrians. The Contractor is not specifically required to furnish k-rail as the only option, this objective can equally be accomplished by other means such as anchored safety fencing, plastic netting, or heavy duty silt fence near the top of slope. K-rail is specifically required at all bore and jack pits.

Q28. Question: Regarding tree removal, the project documents provide specific itemized information for each tree to be removed 4 inch dbh and larger. Will the contractor be provided additional compensation for tree removal in the event it is determined that additional trees 4 inch dbh and larger are required to be removed in addition to / in excess of the quantity of trees indicated in the project documents? For example: (1) Caltrans determines / directs additional tree removal, (2) additional tree removal is required to increase adequate access to the cut slope benches for construction of the proposed waterline, (3) some 4 inch dbh and larger trees were missed / not included in the project documents and are required to be removed.

A28. Answer: Regarding tree removal, the District will not pay for removal of brush, young trees and saplings near or approximately 4-inch dbh that are to be otherwise cleared in accordance with site preparation requirements. However, the contractor will be compensated for removal of additional trees 6-inch dbh and larger if so directed to do so by Caltrans or District. If the Contractor asks to remove additional trees to improve access, the trees must be 6-inch dbh or larger, to be evaluated and considered by the District. Any claim by the Contractor will consider both extra work and reduced work if trees are added or deleted from the list of trees.

Q29. Question: Regarding the TME stormwater drawings "aggregate base", the TME "B" plan sheets, 4B-52B, indicate the locations and application of the different surface BMP's required during a rain event or for final stabilization, which consist of: seed and 700 coir blanket, 6" wood chips, aggregate base, & pavement. In the majority (but not all) of the area where the proposed waterline alignment is in the highway shoulder or in the highway shoulder slope, the surface BMP is indicated as aggregate base. The notes in Detail 2 and Detail 3 show seed and 700 coir blankets, not aggregate base, for the surface BMP where the proposed waterline alignment is in the highway shoulder or in the highway shoulder slope. Please clarify the conflicting information. If aggregate base is required, what is the minimum thickness, and what are the compaction requirements?

A29. Answer: The "cross sections" for Detail 2 and 3 correctly show locations of aggregate base on the highway shoulder along the edge of pavement and locations of seed and coir blanket applied on the adjacent slope for slope stabilization. As a general rule of thumb, the Contractor is required to stabilize all disturbed soil regardless if it is the trench or areas impacted by the Contractor's operations and heavy equipment traffic. Obviously, the amount of soil disturbance depends upon how the Contractor conducts the work. For the purpose of bidding, assume that aggregate base placed along highway shoulders is minimum 4-inches thick compacted to not less than 90% relative compaction.

Q30. Question: Regarding select native trench backfill, Section 02315-1, Article 2.3B of the specifications provides gradation requirements for select native or imported trench backfill. The geotechnical report provides a gradation analysis on five each soil samples taken from within the project limits. Four of the five soil sample gradations do not meet the specified gradation requirements for trench backfill on the #200 sieve. Is there any additional soil samples or gradation analysis available for the native soil along the proposed waterline alignment beyond the five included in the geotechnical report?

A30. Answer: Notwithstanding other restrictions and requirements of contract specifications, the District is willing modify definition of "select native material" to include material with 31.7% to 57.3% passing #200 sieve as represented by samples in soils report.

Q31. Question: Regarding fire hydrants, will any guard posts be required at the new fire hydrants according to Standard Detail G12? If "yes" can any information pertaining to quantity and location be provided to the prospective bidders?

A31. Answer: The District does not plan on installing guard posts for any of the hydrants at this time. A change order will be issued if guard posts are added at any fire hydrants.

Q32. Question: This question regards clarification on Addendum 3 anchoring Plastic Pipe Institute Second Edition of Handbook of PE Pipe, Chapter 8. Addendum 3 Part A Item 1 states, "All temporary bypass piping placed on the ground surface or otherwise installed on the project shall be anchored at the ends and stabilized and restrained to prevent lateral movement that may risk the safety of traffic, workers or cause damage to trees, vegetation, fences and other property." Please answer the following series of questions:

A. Does the anchoring requirement per Addendum 3 only apply to the "ends" of the bypass piping placed on the ground? Or, are the anchors/restraints indicated in Chapter 8 required on all of the bypass piping placed on the ground?

B. If yes above, what is the frequency/spacing on center required for anchors/restraints.

C. The stabilization methods provided in Chapter 8 are conceptual in nature and are not project specific with respect to details, dimensions, size, spacing etc. Figure 4 does provide dimensions, but does not communicate berm length or spacing on center, if berm is placed in intervals. Can further clarification be provided to the contractors with respect to details, dimensions, size etc. on the anchors / stabilization methods presented in Chapter 8 specific to the proposed bypass and addendum 3 requirements?

D. The project drawings require 7' tee posts installed 5' on center along the bypass pipe along with protective fencing. Does addendum 3 change the tee post requirements specified in the project drawings in anyway? Do properly driven tee posts meet the requirement for the "pylon type stabilization" indicated in Chapter 8?

A32. Answer: The Plastic Pipe Institute Second Edition of Handbook of PE Pipe, Chapter 8 provides the general means and methods typically used to anchor and restrain above ground HDPE piping. The anchoring applies to both the ends and intermediately along the length of the bypass piping. The Contractor shall determine whichever means and methods are necessary to securely anchor and restrain the temporary above ground bypass piping including type, details, dimensions, frequency, and intervals of the subject anchors/restraints.

END

BID SCHEDULE

ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE	BID PRICE
1	Mobilization/Demobilization	LS	1	$_____.____	$_____.____
2	Encroachments & Traffic Controls	LS	1	$_____.____	$_____.____
3	SWPPP/BMP's	LS	1	$_____.____	$_____.____
4	Sheeting, Shoring & Bracing	LS	1	$_____.____	$_____.____
5	Environmental Mitigation Measures	LS	1	$_____.____	$_____.____
6	Westland/Streambeds Permit Requirements	LS	1	$_____.____	$_____.____
7	Clearing and Grubbing	LS	1	$_____.____	$_____.____
8	Boring & Receiving Pits *(Each Set/Group)*	EA *(Set)*	5	$_____.____	$_____.____
9	Bore & Jack / Casing and Carrier Pipe	LF	295	$_____.____	$_____.____
10	Pressure Regulating Stations (New / Replacement)	EA	10	$_____.____	$_____.____
11	3" Combination Air Valves	EA	19	$_____.____	$_____.____
12	Fire Hydrant without Pressure Regulating Valve (w/o PRV)	EA	7	$_____.____	$_____.____
13	Fire Hydrant with Pressure Regulating Valve (w/ PRV)	EA	8	$_____.____	$_____.____

ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE	BID PRICE
14	Blow Off Valves	EA	16	$_____.____	$_____.____
15	12” Gate Valves	EA	24	$_____.____	$_____.____
16	8” Gate Valves	EA	9	$_____.____	$_____.____
17	6” Gate Valves	EA	16	$_____.____	$_____.____
18	12” Water Main / Open Cut	LF	23,100	$_____.____	$_____.____
19	8” Water Main / Open cut	LF	1,310	$_____.____	$_____.____
20	1” Water Services	EA	15	$_____.____	$_____.____
21	2” Water Services	EA	2	$_____.____	$_____.____
22	2” Water Services Installed by Horizontal Directional Drilling Methods	EA	3	$_____.____	$_____.____
23	PRV Station Piping (extra bends for vertical offsets)	EA	20	$_____.____	$_____.____
24	Asphaltic Concrete Paving	TONS	500	$_____.____	$_____.____
25	Minor Concrete & Thrust Blocks	CY	50	$_____.____	$_____.____
26	Crushed Rock, Gravel & Unstable Subgrade	TONS	50	$_____.____	$_____.____
27	Controlled Density Fill / Cement Slurry Backfill	CY	100	$_____.____	$_____.____

ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE	BID PRICE
28a	Temporary 8” Water Main Bypass Piping/Footage	LF	6,100	$_____.____	$_____.____
28b	Temporary Bypass Piping/End Connections	EA	16	$_____.____	$_____.____
29	Miscellaneous Points of Connection to Replacement Pipeline	EA	12	$_____.____	$_____.____
30	Remove Existing 8” Steel Water Main	LF	5,000	$_____.____	$_____.___
TOTAL BID AMOUNT ALL ITEMS (1 to 30) (NUMERICAL)				**$_____._____**	

_____

_____ **DOLLARS**

TOTAL BID AMOUNT (WRITTEN)