



OFFICE OF COUNTY MAYOR GLENN JACOBS

Procurement Division, 1000 N. Central Street, Suite 100, Knoxville, TN 37917

Knox County Procurement Division Addendum I to Invitation for Bids 3560 Knox County Culvert Repair and Replacement

Addendum Date: May 13, 2024

Buyer: Brian Hubbs

Opening Date: June 5, 2024 at 4:00 PM

Total Page(s): Eleven (11)

This addendum shall become a part of the project plans and specifications and shall be acknowledged on the bid form.

CONSTRUCTION PLANS REVISIONS:

The following is a list of revisions to the construction plans with relative plan sheet numbers. To receive the revised plan sheets, please contact Allyson Boyd with CDM Smith, Inc. at boydaf@cdmsmit.com or call 865-963-4300.

1. Revised Index of Sheets on Title Sheet (1)

Added Sheet 3C and removed Sheet 10C.

2. Revised General Notes (1A-1A1)

Concrete: To be Class "A" (cast-in-place) f'c = 4,000 psi except as noted otherwise.

The minimum 28 day compressive strength shall be 4,000 psi.

Traffic shall not be permitted on any of the repaired areas until test specimens attain a minimum compressive strength of 3,600 psi.

No expansion joint removal.

For shop drawings, see Section 105.02 of the standard specifications.

Removed general note 17.

Removed roadway general note 2.

The cutting of inlet and outlet ditches where shown on plans will be measured and paid for as item no. 703-01, Portland cement concrete ditch paving, C.Y.

For road closure, the contractor shall notify local law enforcement, local fire department, ambulance service, local school superintendent, US postal service, and Knox County Engineering & Public Works.

If the contractor or project inspector is unsure of the identity of an environmental feature, the inspector shall contact Cathy Olsen, Knox County Director of Operations and Planning.



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3. Revised List of Standard Drawings (1A4)

Added Standard Traffic Operations and Structures Drawings.

Revised Roadway Standard Drawings: removed S-GRA1-5 & D-PE-1, added D-PEW-1, D-PEW-2, T-WZ-FAB1, T-WZ-PBR-1&2, T-WZ-PCB1-4 & EC-STR-3E.

4. Estimated Quantities & Footnotes (1A5)

Removed Items 201-01 & 204-01, added quantities per location, added items 201-07.01, KC307-01.20.3, 611-07.01, 611-07.02, and added notes 10 & 11.

Revised items 204-08, 209-05, 209-08.02, 209-09.04, 303-01.02, KC303-01.6, KC303-01.8, 303-10.01, KC307-01.01.3, KC307-01.08.2, KC307-01.08.25, 604-02.01, 604-02.02, 604-10.55, 709-05.05, 709-05.06, 713-11.02, 740-10.03, and revised notes 4 & 7.

5. Culvert #15 Repair Details (2)

Added instream diversion linestyle.

Revised EPSC table.

General Revisions.

6. Culvert #2118 Repair Details (3)

Added Existing Ditch Labels.

General Revisions.

7. Culvert #2118 EPSC Plans (3A)

Added instream diversion linestyle.

Revised EPSC table.

8. Culvert #2118 Signing Details (3B)

Added Footnote.

9. TXDOT Std. Dwg. CH-FW-0 (3C)

Added Sheet.

10. Culvert #2232 Repair Details (4)

Revised Typical Section.

Added Knox. Co. items to pavement schedule

Removed item KC303-01.6.

Added item KC307-01.20.3

General Revisions.



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11. Culvert #2232 EPSC Plans (4A)

Added instream diversion linestyle.
Revised EPSC table.

12. Culvert #2232 Traffic Control Plans Phase 1 (4B)

Removed item 712-09.01.
Added item 712-09.08 & Revised item 712-01.

13. Culvert #2418&2419 Repair Details (5)

Revised endwalls per TDOT std. dwg. D-PEW-1.
Added Footnote 1.
Added Knox Co. items to pavement schedule.
General Revisions.

14. Culvert #2418 & #2419 EPSC Plans (5A)

Added instream diversion linestyle.
Revised EPSC table.

15. Culvert #2418 & #2419 Traffic Control Plans Phase 1 (5B)

Removed item 712-09.01.
Added item 712-09.08 & Revised item 712-01.

16. Culvert #2457 Repair Details (6)

Added Knox Co. items to pavement schedule. Added
items 402-01 & 402-02.
General Revisions.

17. Culvert #2457 EPSC Plans (6A)

Added instream diversion linestyle.
Revised EPSC table.

18. Culvert #2457 Detour Plan (6B)

Revised item 712-01.

19. Culvert #2502 Repair Details (7)

Added instream diversion linestyle.
Added items 209-08.02, 209-09.04 & 303-10.01.
Added Footnote 3.
General Revisions.



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20. Culvert #2616 Repair Details (8)

Added items 209-08.02, 209-09.04 & 303-10.01.
Revised item 740-10.03.
Added Footnote 3.
General Revisions.

21. Culvert #2624 Repair Details (9)

Added items 209-08.02, 209-09.04 & 303-10.01.
Added Footnote 3.
General Revisions.

22. Culvert #2697 Repair Details (10)

Added Knox Co. items to pavement schedule. Added items 402-01 & 402-02.
Removed item KC303-01.6.
Revised item KC303-01.8
General Revisions.

23. Culvert #2697 EPSC Plans (10A)

Revised EPSC table.

24. Culvert #2697 Detour Plan (10B)

Revised item 712-01

NOTE: BIDDERS ARE TO USE THE ATTACHED REVISED BID FORM WITH REVISION DATE 05/10/2024 WHEN SUBMITTING YOUR BID.

Attachments:

Revised Bid Form (REV. 05/10/2024)

End of Addendum I.

Brian Hubbs
Construction and Contract Specialist
Knox County Procurement Division

SECTION 00300 – BID FORM

Project Identification: Culvert Repair & Replacement Project — Phase 1
Knox County, Tennessee
Bid 3560

This Bid is Submitted to: Knox County Procurement Division
1000 North Central Street
Suite 100
Knoxville, TN 37917

Bid Opening Date: Wednesday, June 5, 2024 at 4:00 PM
Knox County Procurement Division

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

The Bidder accepts all terms and conditions contained in the Contract Documents. The Bid will remain subject to acceptance for a period of sixty (60) days after the Bid opening or for a longer period of time if agreeable to both parties in writing.

In submitting this Bid, the Bidder represents the following as set forth in the Agreement:

- A) Bidder has examined and carefully studied the Contract Documents, other related data referenced in the Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum No. _____ Addendum Date _____
Addendum No. _____ Addendum Date _____
Addendum No. _____ Addendum Date _____
Addendum No. _____ Addendum Date _____
Addendum No. _____ Addendum Date _____

- B) Bidder has visited the site and become familiar with and is satisfied as to the general, local and site conditions that may affect costs(s), progress and the performance of the Work;
- C) Bidder is familiar with and is satisfied as to all Federal, State and local laws and regulations that may affect cost(s), progress and the performance of work;

- D) Bidder has obtained and carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface features at or contiguous to the Site including underground utilities.
- E) Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, exploration tests, studies and data concerning the conditions (surface and subsurface) at or contiguous to the Site which may affect cost, progress or performance of Work or which relate to any aspect of the means, methods, techniques, sequences and procedures of construction to be used by the Bidder, including applying specific means, methods, techniques, sequences and procedures of construction expressly required by the Contract Documents to be used by the Bidder, and safety precautions and programs incident thereto;
- F) Bidder does not consider that any further examinations, investigations, explorations, tests, studies or data are necessary for the determination of this Bid for the performance of the Work at the price(s) and within the times and in accordance with the other terms and conditions of the Contract Documents;
- G) Bidder is aware of the general nature of the work to be performed by the Owner and others at the Site that relates to the Work as indicated in the Contract Documents;
- H) Bidder has correlated the information known to the Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents;
- I) Bidder has given the Engineer written notice of all conflicts, errors, ambiguities or discrepancies that the Bidder has discovered in the Contract Documents, and the written resolution thereof by the Engineer is acceptable to the Bidder;
- J) The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and the Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over the Owner.

Bidder agrees to comply with the American Rescue Plan Act (ARPA) Project Requirements & Guidelines as described in Special Provision SP5. This project is being funded in whole or in part by federal award number 21.027 awarded to Knox County by the U.S. Department of the Treasury. Any publications produced with funds from an Agreement that results from this bid must display the federal award information. The ARPA Project Requirements & Guidelines must be incorporated into all ARPA funded Contracts and Subcontracts.

The Bidder acknowledges and accepts the Owner's right to waive any and all Bid requirements and formalities.

Bidder will complete the Work in accordance with the Contract Documents for the following compensation:

BID FORM - CULVERT REPAIR & REPLACEMENT

FOOTNOTE	ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1		
10	201-07.01	REMOVAL AND DISPOSAL OF BRUSH & TREES	LS	1		
	KC202-02.21	REMOVAL OF PIPE (60"x48")	LF	52		
	KC202-02.22	REMOVAL OF PIPE (96"x72")	LF	25		
	KC202-02.60	REMOVAL OF PIPE (60")	LF	160		
	204-08	FOUNDATION FILL MATERIAL	CY	12		
	209-05	SEDIMENT REMOVAL	CY	14		
2	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	LF	2497		
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	LF	330		
3	209-09.01	SANDBAGS	BAG	150		
2	209-09.04	SEDIMENT FILTER BAG (15'X10')	EACH	10		
	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	2		
2 & 9	209-65.04	TEMPORARY IN STREAM DIVERSION	LF	855		
	303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	128		
	KC303-01.6	MINERAL AGGREGATE, TYPE A BASE, GRADING D, DEPTH = 6"	SY	9		
	KC303-01.8	MINERAL AGGREGATE, TYPE A BASE, GRADING D, DEPTH = 8"	SY	255		
	KC303-01.10	MINERAL AGGREGATE, TYPE A BASE, GRADING D, DEPTH = 10"	SY	16		
2 & 4	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	83		
	KC307-01.01.3	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A, DEPTH = 3"	SY	11		
	KC307-01.08.2	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2, DEPTH = 2"	SY	11		
	KC307-01.08.25	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2, DEPTH = 2.5"	SY	238		
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	SY	250		
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	SY	250		
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	SY	535		
	407-20.05	SAW CUTTING ASPHALT PAVEMENT	LF	184		
	KC411-01.15	ACS MIX(PG64-22) GRADING D, DEPTH = 1.5"	SY	250		
11	604-02.01	CLASS A CONCRETE (BOX BRIDGES)	CY	64		

BID FORM - CULVERT REPAIR & REPLACEMENT

FOOTNOTE	ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
	604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB	9461		
11	604.10-05	CONCRETE	SF	9		
11	604-10.54	CONCRETE REPAIRS	SF	9		
1 & 11	604-10.55	CONCRETE (FOUNDATION REPAIRS)	CY	4		
	604-10.58	EPOXY INJECTION (INJECTION)	GAL	1		
	604-10.62	EPOXY INJECTION REPAIR (COMPLETE AND IN PLACE)	LF	20		
	607-05.30	24" PIPE CULVERT	LF	23		
	607-11.30	60" PIPE CULVERT	LF	160		
8	607-57.08	REINFORCED CONCRETE PIPE ARCH (73" X 45")	LF	52		
11	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	CY	24		
	611-07.02	STEEL BAR REINFORCING (PIPE ENDWALLS)	LB	1210		
	611-10.02	CATCH BASINS, TYPE 10, > 4' - 8' DEPTH	EACH	2		
	621-05.02	TEMPORARY SHORING	LS	1		
1	621-03.11	72" TEMPORARY DRAINAGE PIPE	LF	92		
	702-01	CONCRETE CURB	CY	2		
	703-01	PORTLAND CEMENT CONCRETE DITCH PAVING	CY	4.1		
	705-02.10	GUARDRAIL TRANSITION 27 IN TO 31 IN	EACH	2		
	705-06.30	GUARDRAIL TERMINAL (ENERGY ABSORBING) MASH TL-2 (FOR TYPE 21)	EACH	2		
4	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	800		
4	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	30		
	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	218		
	712-01	TRAFFIC CONTROL	LS	1		
1	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	LF	280		
5	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	2		
1	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	53		
6	712-05.01	WARNING LIGHTS (TYPE A)	EACH	10		
	712-06	SIGNS (CONSTRUCTION)	SF	876		

BID FORM - CULVERT REPAIR & REPLACEMENT

FOOTNOTE	ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
	712-07.03	TEMPORARY BARRICADES (TYPE III)	LF	69		
1	712-08.03	ARROW BOARD (TYPE C)	EACH	2		
	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	LF	20		
	712-09.08	REMOVABLE PAVEMENT MARKING (6" LINE)	LF	6620		
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB	1457		
	713-11.21	P POST SLIP BASE	EACH	26		
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.08" THICK)	SF	78		
1	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2		
	713-02.27	CONCRETE BARRIER/PARAPET DELINEATOR (BI-DIRECTIONAL)	LF	14		
	716-13.02	SPRAY THERMO PVMT MARKING (60 mil) (6IN LINE)	LM	0.40		
	717-01	MOBILIZATION	LS	1		
	730-40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH	2		
	740-10.03	GEOTEXTILE (TYPE III, EROSION CONTROL)	SY	2100		
	801-03	WATER (SEEDING & SODDING)	MG	1		
1	803-01	SODDING (NEW SOD)	SY	37.3		
7	KC-001	CONCRETE CLOTH	LF	273		

total bid _____
in words

\$ _____
in numbers

Owner reserves the right to reject any and all bids.

FOOTNOTES - CULVERT REPAIR & REPLACEMENT

1	MAY BE INCREASED OR DECREASED BY THE ENGINEER.
2	SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
3	MATERIAL USED FOR TEMPORARY PLUG SELECTED BY CONTRACTOR. IF OTHER ITEM IS USED, ITE IS TO BE FURNISHED AT THE UNIT PRICE BID FOR THE APPROPRIATE TDOT ITEM NUMBER.
4	FOR EROSION CONTROL, EXCEPT FOR CULVERT 2502.
5	THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF AASHTO MASH FOR TEST LEVEL 3. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
6	TWO TYPE "A" WARNING LIGHTS TO BE MOUNTED ON EACH "ROAD CLOSED" SIGN.
7	COST OF CONCRETE CLOTH INCLUDES ALL LABOR AND MATERIAL TO INSTALL CLOTH INCLUDING, BUT NOT LIMITED TO, CONCRETE CLOTH, FASTENING SCREWS, WATERPROOFING MATERIAL SUCH AS NON-SHRINK GROUT.
8	CONTRACTOR MAY ELECT TO USE ALUMINIZED STEEL FOR PIPE ARCH. SEE SPECIAL PROVISIONS FOR DETAILS.
9	MAY INCLUDE PUMPED AND PIPED DIVERSION TO MAINTAIN STREAM FLOW.
10	TO CLEAR VEGETATION AND DEBRIS AROUND CULVERT. SEE CULVERT ID 2457 AND 2624.
11	INCLUDES ALL LABOR AND MATERIALS NECESSARY TO PLACE HIGH EARLY STRENGTH CONCRETE.