



PROJECT SPECIFICATIONS

FOR

TRACE CREEK LOW HEAD DAM REMOVAL

**WAVERY, HUMPHREYS COUNTY,
TENNESSEE**

**WEST TENNESSEE RIVER BASIN
AUTHORITY**

**TENNESSEE DEPARTMENT OF
ENVIRONMENT AND CONSERVATION**



NOVEMBER 2025
Revised April 2026

CEC Project No. 343-976

TRACE CREEK LOW-HEAD DAM REMOVAL SPECIFICATIONS

PART 1 PROJECT DESCRIPTION

- 1.01 The project is for the removal of a concrete encased abandoned sewer line crossing on Trace Creek in Waverly, Tennessee. The concrete encasement that surrounds the abandoned sewer line pipe extends into the stream substrate, obstructing flow within Trace Creek and functioning as a low head dam. This obstruction is impounding approximately 600 linear feet (LF) of water behind the structure and results in a 6-foot change in stream elevation within this section of stream. The proposed work will consist of removal of the concrete encased sewer line from Trace Creek, restoration of the stream bed and banks at the location of the removed sewer line, restoration/stabilization of approximately 620 LF of stream channel downstream of the removed sewer line, stabilization of streambanks approximately 180 LF upstream of the sewer line crossing. It is an American Rescue Plan Act (ARPA) American Rescue Plan (ARP) Resource Protection Grant funded project.

PART 2 PROJECT DOCUMENTS

- 2.01 Trace Creek Low Head Dam Removal Plans dated 11/25/2025.
- 2.02 TDEC ARAP NRS 25.186 (PENDING)
- 2.03 USACE NWP #53 Removal of Low Head Dams LRN-2025-00869 (PENDING)
- 2.04 USACE NWP #27 Aquatic Habitat Restoration LRN-2025-00869 (PENDING)
- 2.05 TDEC Construction General Permit (PENDING)

PART 3 SITE

- 3.01 Site and Other Areas
 - A. The Site is identified in the Bidding Documents. By definition, the Site includes rights-of-way, easements, and other lands furnished by Owner for the use of the Contractor. Any additional lands required for temporary construction facilities, construction equipment, or storage of materials and equipment, and any access needed for such additional lands, are to be obtained and paid for by Contractor.
- 3.02 Examination of Site
 - A. Bidder is required to visit the Site and conduct a thorough visual examination of the Site and adjacent areas. During the visit, the Bidder must not disturb any ongoing operations at the Site.
 - B. All access to the Site other than during a regularly scheduled Site visit must be coordinated through the following Owner or Engineer contact for visiting the Site. Bidder must conduct the required Site visit during normal working hours.

PART 4 AS-BUILT DRAWINGS

- 4.01 During construction, the contractor shall maintain a set of prints showing any changes or corrections in red. These prints shall be submitted to the engineer at the completion of the work.

PART 5 PRE-CONSTRUCTION MEETING

5.01 Prior to the start of construction, the Contractor shall call a pre-construction conference, including his Project Superintendent and his Foreman, the Engineer, and others as the Engineer may direct. The purpose of this meeting is to review the requirements of the Contract, Permit and Construction Documents to assure complete understanding of the specific responsibilities of each participant and his relationship with the others involved.

PART 6 ENGINEER’S AND OWNER’S STATUS DURING CONSTRUCTION

6.01 Owner and Engineer may make visits to the Site at intervals appropriate to the various stages of construction as Owner deems necessary in order to observe the progress that has been made and the quality of the various aspects of Contractor’s Work. Based on information obtained during such visits and observations, Owner may determine, in general, if the Work is proceeding in accordance with the Contract Documents. Owner shall not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. Owner’s efforts shall be directed toward providing for Owner a degree of confidence that the completed Work will conform generally to the Contract Documents.

PART 7 SCHEDULE

7.01 It is expected that the work for this project will commence no later than **June 8, 2026**. The project must be fully completed within 30 working days. The Contractor will be allowed one (1) additional day for each day of inclement weather. Allowable working days are defined as Monday through Friday 7:00 a.m. to 5:00 p.m.; however, Contractor may perform equipment maintenance and startup before and after.

7.02 Project Schedule: Within 10 days after the Effective Date of the Contract, Contractor shall submit to Owner for timely review a preliminary schedule including:

- A. The Critical Path.
- B. The planned start and completion dates for each activity, the duration of each activity, and the sequencing of all activities. If activities have durations of more than one updated period, break the activities into two or more activities distinguished by location or some other feature.
- C. Dates related to the procurement of materials, equipment and articles of special manufacture; and dates related to the submission of working drawings, plans and other data specified for review or approval by Owner.
- D. Dates related to key Owner inspections.
- E. Dates related to specified activities by the Owner and third parties, and times for starting and completing the various stages of Work, including but not limited to all Milestones specified in the Contract.
- F. A preliminary Schedule of Submittals.

PART 8 BASIS OF BID

8.01 Work Items and Estimated Quantities

- A. Bid shall be based on a lump sum basis. The itemized quantities are included to aid in the bid process, but the bid itself will not be itemized.

8.02 Estimated Quantities

FOOTNOTES	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	001	MOBILIZATION AND DEMOBILIZATION	L.S.	1
	002	REMOVAL OF STRUCTURE (CONCRETE DAM)	L.S.	1
4	003	CUT AND CAP ABANDONED SANITARY SEWER	EACH	2
6	004	CONSTRUCTION HAUL ROAD	L.F.	735
	005	BOULDER VANE	EACH	6
3	006	LONGITUDINAL STONE TOE PROTECTION	L.F.	838
9	007	STREAM CONSTRUCTION ENTRANCE	EACH	2
8	008	TEMPORARY COFFERDAM	L.S.	1
2	009	MINERAL AGGREGATE (SIZE 57)	TON	11
	010	MACHINED RIPRAP (CLASS C)	TON	726
12	011	GRAVEL PATH RESTORATION	L.F.	595
	012	TEMPORARY CONSTRUCTION ENTRANCE/EXIT	EACH	2
11	013	SILT FENCE WITH WIRE BACKING	L.F.	200
10	014	FILTER SOCK	L.F.	1,200
7	015	GEOTEXTILE TYPE (III) (EROSION CONTROL) PER S.Y.	S.Y.	50
	016	PERMANENT SEEDING MIX W/MULCH	AC	3
	017	TEMPORARY SEEDING MIX W/MULCH	AC	3
	018	700 GRAM COIR FIBER EROSION BLANKET	S.Y.	1244
	019	SEDIMENT FILTER BAG (15' X 15')	EACH	2
	020	RESTORE ASPHALT	S.Y.	350
5	021	BRUSH LAYERING	L.F.	1,800
	022	LIVE STAKE CUTTINGS: SALIX NIGRA (18-24 INCH LENGTH)	EACH	314
	023	LIVE STAKE CUTTINGS: CORNUS AMOMUM (18-24 INCH LENGTH)	EACH	314
	024	LIVE STAKE CUTTINGS: SAMBUCUS CANADENSIS (18-24 INCH LENGTH)	EACH	314
13	025	LIVE STAKE CUTTINGS: ALNUS SERRULATA (18-24 INCH LENGTH)	EACH	314
	026	ACER RUBRUM (RED MAPLE 2-5 FT C.G.)	EACH	41
	027	LIRIODENDRON TULIPIFERA (TULIP POPLAR 2-5 FT C.G.)	EACH	41
	028	PLATANUS OCCIDENTALIS (SYCAMORE 2-5 FT C.G.)	EACH	41
	029	QUERCUS ALBA (WHITE OAK 2-5 FT C.G.)	EACH	41
	030	QUERCUS PALUSTRIS (PIN OAK 2-5 FT C.G.)	EACH	42
	031	TREE PROTECTION FENCING	L.F.	942
	032	ORANGE CONSTRUCTION FENCE	L.F.	305

FOOTNOTES:

1. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
2. INCLUDES 11 TONS FOR 1 SEDIMENT FILTER BAG.
3. INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO CONSTRUCT LONGITUDINAL STONE TOE AS SHOWN IN DETAIL 1, SHEET EC800. L.F. BRUSH LAYERING SHALL BE PAID AS A SEPARATE ITEM. SHALL BE MEASURED AS TOTAL L.F. OF LONGITUDINAL STONE TOE. INCLUDES 3,100 TONS OF MACHINED RIPRAP CLASS "C" FOR LONGITUDINAL STONE TOE AND TIE-BACKS.
4. INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO CUT AND CAP THE ABANDONED SEWER LINE.
5. INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR BRUSH LAYERING AS SHOWN IN DETAIL 1, SHEET EC800. PAYMENT SHALL BE PER LINEAR FOOT FOR EACH ROW OF BRUSH LAYERING CONSTRUCTED. DENSITY OF LIVE BRUSH LAYERING SHALL BE ONE BUNDLE PER 3 LINEAR FEET. ONE BUNDLE IS A MINIMUM OF 25 BRANCHES. THE FOLLOWING 4 SPECIES ARE TO BE USED: SALIX NIGRA, CORNUS AMOMUM, SAMBUCUS CANADENSIS, ALNUS SERRULATA.
6. INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO CONSTRUCT AND MAINTAIN THROUGH THE DURATION OF THE PROJECT. HAUL ROAD TO EXTEND FROM HOLLY LN TO THE PROJECT WORK AREA. INCLUDES ONE LAYER OF GEOTEXTILE TYPE III, 2 INCH STONE, MIN. 6 INCH THICK, AND MIN. 12 FT IN WIDTH.
7. INCLUDES 50 SY FOR 1 SEDIMENT FILTER BAG.
8. INCLUDES 250 LINEAR FEET PER SETUP TO BE REPOSITIONED INTO MULTIPLE SETUPS AS NEEDED TO ALLOW WORK IN THE DRY.
9. INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO CONSTRUCT STREAM CONSTRUCTION ENTRANCE AS SHOWN IN DETAIL 3, SHEET EC906. LOCATION OF STREAM CONSTRUCTION ENTRANCES SHALL BE DETERMINED IN THE FIELD.
10. TO BE USED AS DIRECTED ALONG THE TOP OF STREAM BANK.
11. INCLUDES 200 LF FOR 1 SEDIMENT FILTER BAG.
12. INCLUDES RESTORING AND STABILIZING EXISTING PATH WITHIN LIMITS OF DISTURBANCE TO EXISTING GRADE AND PLACING A 4 IN LAYER OF #57 STONE ON IT.
13. MAY BE SUBSTITUTED WITH LIVE STAKE CUTTINGS: PLATANUS OCCIDENTALIS (18IN-24IN).