BID PACKET

GRAND RIVER UTILITY CROSSING PROJECT

Horizontal Directional Drilling (HDD)

Approximately 2,000 Linear Feet HDD Under the Grand River + ~370 LF Open Trench

7.2 kV Electric (3-500 MCM Primary w/ Concentric Neutral) & 1-inch diameter comm cable

CONSTRUCTION PLANNED FOR 2027

Lake Region Electric Cooperative (LREC) invites qualified contractors with demonstrated experience in horizontal directional drilling (HDD) of major river crossings to submit bids for this important infrastructure project. LREC will furnish the 3-500 MCM primary cables (with concentric neutral) and 1-inch diameter comm cable; the contractor is responsible for furnishing and installing all conduit(s) and pulling the owner-furnished cables into the conduit(s). This packet contains all information, specifications, requirements, and forms necessary to prepare and submit a complete proposal. Bidders are strongly encouraged to attend the pre-bid meeting and site visit to fully understand site conditions, access, and project expectations.

BIDDING CONTRACT INFORMATION

Proposal Submitted To:

Lake Region Electric Cooperative
Engineering & Operations Department
Attn: Mark Squyres
P.O. Box 127, Hulbert, OK 74441
Phone: 918-772-6915 or 918-772-2526
Email: msquyres@lrecok.coop

Bid Packet Availability:	Available for download on the LREC website at lrecok.coop. Electronic copies available upon request.
Pre-Bid Meeting / Site Visit:	Scheduled upon request. Contact Mark Squyres to arrange date and time.
Bid Opening:	June 15, 2026
Bid Closing Deadline:	July 15, 2026 at 2:00 PM. Late bids will not be accepted.
Submission Method:	Sealed bids (paper) delivered to LREC Main Office or mailed to P.O. Box above.
Public Bid Opening:	July 16, 2026 at 10:00 AM at LREC Main Office

To Be Considered, Bids MUST Include:

- Completed and signed Bid Form (included herein) with itemized pricing and grand total.
- Certificate of Liability Insurance showing minimum $1,000,000 per occurrence and $1,000,000 aggregate General Liability, statutory Workers' Compensation, and Employer's Liability. LREC must be named as Additional Insured on the policy for the project duration; provide copy of endorsement.
- Performance Bond and Payment Bond (or commitment to provide upon award) in the amount of 100% of the contract price from a surety acceptable to LREC.
- Contractor Qualifications Package: (a) Summary of experience with HDD river or major waterbody crossings ≥1,000 linear feet completed in the last 7 years (minimum 3 projects preferred; provide project names, locations, lengths, pipe sizes, owners, and references with contact info); (b) Key personnel resumes (Project Manager, HDD Superintendent/Operator – must have direct river

crossing experience); (c) List of owned or readily available HDD drill rigs capable of 2,000+ ft pulls with specifications; (d) Current EMR and summary of safety record (OSHA 300 logs for last 3 years); (e) Any relevant certifications (e.g., HDD operator training).
- Preliminary HDD Design Narrative and Profile Sketch (or firm commitment to submit detailed design within 10 days of Notice of Award for LREC review and approval prior to mobilization).
- Bid Bond or Bid Security in the amount of five percent (5%) of the total bid amount.

General Conditions

Lake Region Electric Cooperative reserves the right to reject any or all proposals, to waive technicalities or informalities, to negotiate with the apparent low responsive bidder, or to accept the proposal deemed most advantageous to LREC. LREC is not obligated to award a contract. The contract will be subject to approval by the LREC Board of Trustees. All work shall comply with applicable federal, state, and local laws, codes, permits (including USACE, SF-299, Oklahoma DEQ, and any others), and LREC standards. Contractor is responsible for obtaining and paying for all permits not already secured by LREC, as well as all utility locates, traffic control (if required), and site security.

PROJECT LOCATION & SCOPE OF WORK

Location

The project involves a horizontal directional drill crossing of the Grand River with precise coordinates as follows:
- **Bore Entry:** 35.867440, -95.226204
- **Bore Exit:** 35.866821, -95.232933 — Approximate HDD length: 2,000 linear feet
- **Final Pole (West side, end of trench):** 35.867477, -95.233895 — Approximate open trench length from Bore Exit: 372 linear feet (direct trench, no intermediate structures)

The bore path connects Bore Entry to Bore Exit. From Bore Exit, the contractor will open-trench to the Final Pole on the west side. There are no structures between Bore Exit and the Final Pole. LREC will provide any available survey, easement, or access details. Access to both banks will be via existing roads or established easements; contractor to coordinate any additional temporary access or permissions needed. See attached aerial map showing the bore path and limits of trenching on the west bank.

Aerial Map

Aerial Map – Project coordinates, bore path, and west bank trenching limits

Scope of Work

The work consists of furnishing all labor, materials, equipment, tools, supervision, and incidentals necessary to successfully complete approximately 2,000 linear feet of horizontal directional drilling (HDD) under the Grand River plus approximately 372 linear feet of open trench on the west bank. LREC is responsible for all permitting with appropriate agencies (USACE, SF-299, DEQ, etc.) and will furnish the 3-500 MCM primary cables (with concentric neutral) and the 1-inch diameter comm cable. The contractor is responsible for furnishing and installing all conduit(s) and for pulling the LREC-furnished cables into the installed conduit(s) without damage. Major elements include:

1. **Mobilization/Demobilization & Site Prep:** All equipment, materials, drilling fluid systems, containment, personnel, and support facilities to both river banks. Includes site preparation, temporary staging areas, erosion/sediment controls, and complete site restoration upon completion.
2. **HDD Execution (Bore Entry at 35.867440, -95.226204 to Bore Exit at 35.866821, -95.232933):** Complete design, pilot hole drilling, reaming, and pullback of the conduit system. Contractor is responsible for the HDD design (profile, radius of curvature, depth of cover, pull force & stress calculations, buoyancy control, etc.) subject to LREC approval prior to drilling. Minimum depth of cover under the river thalweg shall meet or exceed all permit requirements and long-term scour protection. Use of wireline or gyroscopic tracking system is required for accuracy.
3. **Conduit System:** Contractor shall furnish and install conduit(s) sized and configured to accommodate pulling the 3-500 MCM primary cables (with concentric neutral) and the 1-inch diameter comm cable without damage or excessive tension. LREC's typical configuration is one nominal 12-inch HDPE (DR11 or approved) sleeve for the electric cables and one nominal 4-inch (or larger) HDPE conduit for fiber, installed in a single bore. Bidder may propose an alternative multi-conduit configuration with supporting pull tension calculations; all configurations are subject to LREC review and approval prior to material procurement. All joints fused by qualified technicians; provide fusion logs on request. Install pull ropes/tapes as needed.

4. **Cable Pulling:** Pull the LREC-furnished 3-500 MCM primary cables (with concentric neutral) and 1-inch diameter comm cable into the installed conduit(s). Contractor is responsible for all aspects of cable handling, lubrication, tension monitoring (respect manufacturer max tension limits for each cable), pulling equipment, and ensuring no damage to cables or conduit. Coordinate cable delivery and staging with LREC.
5. **Open Trench on West Bank (Bore Exit Pole 35.866821, -95.232933 to Final Pole 35.867477, -95.233895):** Approximately 372 linear feet of direct open trench (no intermediate structures). All trenching, bedding, backfill, and compaction shall meet LREC Underground Trench Requirements. Minimum depth per LREC standards for the voltage.
6. **Entry/Exit Pits & Approach Work:** Excavation, shoring if needed, and backfill of entry and exit pits. Coordinate exact layout and any junction box/vault requirements with LREC.
7. **Drilling Fluid Management & Frac-Out Prevention:** Full containment, recycling or proper disposal of drilling fluids and cuttings. Detailed inadvertent return (frac-out) contingency plan with immediate notification protocols to LREC and regulatory agencies, spill kits/equipment on site, and cleanup/restoration procedures. No frac-outs into the Grand River or adjacent wetlands/floodplain will be tolerated without immediate documented response.
8. **Site Restoration & Bank Stabilization:** Return all disturbed areas on both banks to pre-construction condition or better. Grade, compact, install erosion control (blankets, silt fence, etc.), and seed with approved native or LREC-specified mix. Any structural bank protection required by permits shall be installed per plans. Remove all temporary access improvements and restore.
9. **Documentation & As-Builts:** Daily drilling logs, mud reports, cable pulling tension records, and incident reports. Final as-built survey and profile drawing (horizontal and vertical alignment with depths referenced to permanent benchmarks) accurate to industry standards for HDD river crossings. Video or photographic documentation of key operations if requested.
10. **Testing, Inspection & Coordination:** Post-installation mandrel or equivalent testing of conduits, and any pressure testing if specified. Coordinate with LREC for inspections. LREC or its representatives may observe all phases including cable pulling.

Note on Geotechnical & River Data / Permitting: *LREC is responsible for all permitting with appropriate agencies and will provide available preliminary geotechnical information, bathymetry, and scour analysis. However, the contractor remains responsible for verifying site conditions and obtaining any additional subsurface data needed for a successful HDD design and execution. River conditions (flow, stage, potential flooding) must be monitored; work may be restricted by permit conditions or weather.*

TECHNICAL SPECIFICATIONS & LREC HDD REQUIREMENTS

The following requirements supplement the Scope of Work and form the basis for the signed acknowledgment form at the end of this packet. These are minimum standards; the contractor's detailed execution plan may exceed them.

Conduit & Material Requirements

- Baseline Configuration (subject to LREC approval of bidder proposal): One nominal 12-inch HDPE (DR11 or approved equivalent, min. cell classification 345464C per ASTM D3350) sleeve for the 3-500 MCM primary cables with concentric neutral; one nominal 4-inch (or larger) HDPE conduit for the 1-inch diameter comm cable. All suitable for HDD pullback forces and long-term river crossing service.
- Alternative configurations (multiple conduits, different sizes, or steel casing) may be proposed by bidder with pull tension calculations demonstrating compliance with cable manufacturer limits; all require LREC written approval before procurement.
- All fusions to be performed by qualified technicians using approved equipment; provide fusion logs upon request.
- Pull ropes/tapes: Sized appropriately for the expected cable pulls; install in each conduit.

HDD Design & Execution Standards

- Entry and exit angles, curve radii, and depth of cover shall be designed per industry best practices (reference NASTT HDD Good Practices Guidelines or equivalent) and pipe manufacturer pull force limits. Minimum radius typically 100 to 150 times the outside pipe diameter, or as calculated based on pull force analysis and pipe manufacturer guidelines.
- Minimum depth of cover under the Grand River thalweg: As required by permit and scour analysis (typically 15–30+ feet below design scour elevation). Profile must demonstrate adequate cover throughout the crossing.
- Pilot hole tracking: Wireline steering system or gyroscopic/MWD system providing real-time position data. Surface grid or alternative for land portions.
- Drilling fluid: Bentonite or polymer-based slurry designed for the anticipated geology. Fluid pressures monitored and managed to minimize frac-out risk.
- Frac-out (inadvertent return) plan: Written plan submitted with bid or within 14 days of award. Must include detection methods, immediate containment (booms, sandbags, vacuum trucks), notification tree (LREC + regulatory agencies within 1 hour), cleanup standards, and post-event monitoring. Equipment and materials for response must be on-site or staged nearby during active drilling.
- Pullback: Continuous monitoring of pull force vs. calculated allowable. Use of rollers, buoyancy modules, or other aids as needed. Swab or pig conduits after installation if required.

Inspection, Documentation & As-Builts

- LREC (or designated representative) shall have access to observe all phases of work, including pilot drilling, reaming, pullback, and restoration. Contractor shall provide at least 48 hours advance notice of key activities.
- Daily reports during drilling operations: footage drilled, fluid volumes/pressures, any incidents or anomalies, weather, personnel/equipment on site.
- Final deliverables: As-built plan and profile drawings (scale appropriate for HDD), surveyed coordinates and elevations of entry/exit points and key alignment points, conduit test results, fusion logs, and photo/video documentation. As-built accuracy should support future maintenance and regulatory compliance.

Restoration & Environmental Compliance

- All areas disturbed by construction shall be restored to pre-construction grades and condition or better, unless otherwise directed by permit or LREC. This includes grading, compaction, topsoil replacement (if stripped), erosion control installation, and seeding/mulching with LREC-approved species.
- Bank stabilization and any in-stream or near-stream work must comply exactly with USACE permit conditions and SF-299 requirements.
- Drilling fluid and cuttings disposal: In accordance with all applicable regulations; no discharge to waterways or wetlands. Provide manifests or disposal receipts upon request.
- Any violation of environmental permits or frac-out into regulated waters must be reported immediately to LREC and may result in stop-work order, remediation at contractor expense, and/or contract termination.

INSURANCE, BONDING & CONTRACT REQUIREMENTS

In addition to the bid submittal requirements listed earlier:

- **Insurance:** $1,000,000 minimum per occurrence and aggregate for Commercial General Liability (CG 00 01 or equivalent). Include coverage for pollution liability / contractor's pollution (highly recommended for HDD work) and professional liability if the contractor provides design services. LREC named as Additional Insured with waiver of subrogation. Certificate and endorsement required before mobilization.

- **Bonds:** Performance Bond and Labor & Material Payment Bond, each in the full amount of the contract price, from a Treasury-listed surety with A.M. Best rating of A- or better. Bonds to be delivered within 10 business days of Notice of Award.
- **Contract Form:** LREC's standard construction contract or purchase order will be used, incorporating these bid documents, the successful bidder's proposal, and all permit conditions. Retainage of 5–10% typical until final acceptance and as-builts delivered.
- **Warranty:** Minimum one (1) year warranty on workmanship and materials from date of substantial completion. HDD installation to be free of defects affecting conduit integrity or future cable pulls.

BID FORM

Bidder Name / Company: _____ Date: _____

Authorized Representative (Print): _____ Title: _____

#	Item Description	Unit	Qty	Unit Price	Total
1	Mobilization, Demobilization, Site Prep & Staging (both banks)	LS	1	$	$
2	HDD (~2,002 LF) + Conduit System Furnish/Install + Pulling LREC-furnished 3x500 MCM Primary (w/ CN) + 1-inch comm cable; includes design, pilot, reaming, pullback, tracking, fluid mgmt, testing (~2,000 LF bore)	LS	1	$	$
3	Open Trench (~372 LF) from bore exit pole to final pole (direct, no intermediate structures), pits, backfill & compaction per LREC standards, junction box/vault coordination	LS	1	$	$
4	Bank Restoration, Grading, Erosion Control, Seeding & Mulching (both banks) – Complete per permits and pre-construction condition	LS	1	$	$
5	As-Built Survey, Profile Drawings, Documentation & Final Deliverables	LS	1	$	$
6	Other / Allowances (specify below or attach sheet)			$	$
GRAND TOTAL BID AMOUNT (Lump Sum – All Inclusive)				**$ _____**	

Notes / Alternates / Exclusions (attach additional sheets if needed):

_____

_____

Bidder Certification: By signing below, the bidder certifies that this bid is genuine, not collusive or sham; that the bidder has examined the bid documents, site conditions (or had opportunity via site visit), and all applicable permits/specs; that the bidder is qualified and equipped to perform the work; and that all information in the qualifications package is accurate.

Authorized Signature: _____ Date: _____

Printed Name: _____ Title: _____

LREC GRAND RIVER HDD & RIVER CROSSING REQUIREMENTS

Acknowledgment and Agreement Form

All horizontal directional drilling (HDD), site work, and restoration for this river crossing project is the sole responsibility of the Contractor. The following are LREC's minimum requirements. These requirements, along with the full bid packet, Scope of Work, and all applicable permits, form the basis of the contract.

1. Minimum Depth of Cover

The installed conduits shall maintain a minimum depth of cover under the Grand River thalweg (deepest channel) as specified in the approved HDD profile and consistent with USACE/SF-299 permit conditions and scour analysis (typically 15–30+ feet below design scour elevation). Shallower depths require written variance approval from LREC. Contractor's design must demonstrate adequate long-term protection.

2. Conduit System (Furnish & Install)

Contractor shall furnish and install conduit(s) sized and configured to allow pulling of the 3-500 MCM primary cables (with concentric neutral) and 1-inch diameter comm cable without damage and within cable manufacturer tension limits. LREC's baseline preference is one nominal 12-inch HDPE (DR11 or approved equivalent) sleeve for the electric cables and one nominal 4-inch (or larger) HDPE conduit for fiber, all in a single bore. Bidder may propose an alternative configuration (e.g., multiple parallel conduits) with supporting pull tension calculations and justification; all configurations require LREC written approval prior to procurement. All fusions by qualified technicians; provide logs on request. Install appropriate pull ropes/tapes. Post-installation mandrel (or equivalent) testing of each conduit is required.

3. Cable Pulling (LREC-Furnished Cables)

Contractor is fully responsible for pulling the LREC-furnished 3-500 MCM primary cables (with concentric neutral) and 1-inch diameter comm cable into the installed conduit(s). This includes proper handling and staging of owner-furnished materials, use of appropriate pulling equipment and grips, continuous tension monitoring (never exceed cable manufacturer maximum pulling tension for each cable), lubrication as needed, and ensuring zero damage to cables or conduit. Contractor shall provide LREC with pulling tension records. Any damaged cable or conduit shall be replaced at Contractor's sole expense.

4. Drilling Fluid & Frac-Out (Inadvertent Return) Management

Contractor shall implement a detailed frac-out contingency plan. Any return of drilling fluid to the surface, river, or wetlands must be immediately contained, reported to LREC within one (1) hour, cleaned up to regulatory standards, and documented. Response equipment (vacuum truck, booms, absorbent materials, etc.) must be readily available on-site during all drilling operations. Disposal of fluids and cuttings must comply with all environmental regulations; manifests provided upon request.

5. Tracking, Survey & As-Builts

Accurate pilot hole tracking (wireline or gyro) is mandatory under the river. Final as-built drawings shall show plan and profile with surveyed entry/exit points, key alignment points, and depths referenced to established benchmarks. Accuracy shall be sufficient for future maintenance and regulatory compliance (target +/- 2 ft horizontal/vertical or better).

6. Site Access, Pits, Trench & Restoration

Entry and exit pits shall be properly shored or sloped per OSHA. All disturbed areas, including temporary access roads, staging areas, and bank slopes, shall be restored to pre-construction condition or better. This includes grading to original contours (or approved modified grades),

compaction, erosion control installation, and seeding with LREC-approved native vegetation mix. Bank stabilization measures required by permit shall be installed and maintained.

7. Inspection & Coordination

LREC or its representative shall be notified at least 48 hours in advance of pilot drilling, reaming, pullback, cable pulling, and major restoration activities and shall have the right to observe all work. Backhoe/operator or other support equipment must be available when LREC arrives for scheduled inspections or coordination.

8. Environmental & Permit Compliance

Contractor shall comply with all conditions of the USACE permit, SF-299 authorization, Oklahoma DEQ requirements, and any other applicable environmental permits or authorizations. LREC will provide copies of issued permits. Any fines, stop-work orders, or remediation costs resulting from Contractor's actions or inaction shall be borne solely by the Contractor. Immediate notification to LREC of any environmental incident is required.

9. Safety

All work shall be performed in accordance with OSHA, NESC, and LREC safety standards. Contractor is responsible for site-specific safety plan, traffic control (if applicable), and protection of the public and environment. HDD operations involve high pressures and heavy equipment; appropriate controls and PPE are mandatory.

ACKNOWLEDGMENT

I, _____ (Please Print), have read, understand, and agree to abide by all LREC Grand River HDD & River Crossing Requirements, the full bid packet specifications, and all applicable permits and regulations. I understand that failure to comply may result in stop-work orders, financial penalties, remediation at my expense, or contract termination.

Contractor / Company Name:

_____

Printed Name of Authorized Signer:

_____

Signature: _____ Date: _____

Thank you for your interest in this project. LREC looks forward to receiving competitive bids from qualified HDD contractors experienced with river crossings. Questions regarding this bid packet should be submitted in writing to msquyres@lrecok.coop at least five (5) business days before the bid opening to allow time for responses to all bidders.

— END OF BID PACKET —