



INVITATION TO BID – **ADDENDUM 1**

Bid Number: 26-3915 Date Issued: March 23, 2025
Date & Time Bid Opening: **Thursday, April 2, 2026 @ 10:30 am**

TRANSFORMERS FOR THE NORTH LITTLE ROCK ELECTRIC DEPARTMENT

Type	KVA	Voltage	Quantity	Price	ETA
Three Phase	2000	480/277	5		

Manufacturer:

REVISED Specifications attached. **Transformers must be made in the United States.**

For technical questions and/or comments, contact Greg Woodward at 501-992-4073.

Delivery and receiving should be directed to Todd Stripling at 501-992-4052.

General Bidding questions should be directed to the Commerce Department at 501-975-8881.

If you are obtaining this bid from our website, please be reminded that addendums may occur. It is therefore advisable that you review our listings for attachments including any changes to the bid.

The City of North Little Rock encourages participation of small, minority, and woman own business enterprises in the procurement of goods, services, professional services, and construction, either as a general contractor or sub-contractor. It is further requested that whenever possible, majority contractors who require sub-contractors, seek qualified small, minority, and woman businesses to collaborate with them.

ADDENDUM ACKNOWLEDGEMENT

Upon signing this page, the organization certifies that they have read and agree to the requirements set forth in this bid including conditions set forth and pertinent information requests. **UNSIGNED BID COVER SHEET WILL BE REJECTED.**

Name of Firm: _____ Phone No.: _____

Tax Identification No.: _____

Business Address: _____

Signature of Authorized Person: _____

Title: _____ Date: _____

NORTH LITTLE ROCK ELECTRIC DEPARTMENT
THREE-PHASE PAD-MOUNTED TRANSFORMER
JANUARY 7, 1998

1.0 SCOPE

- 1.1 This specification covers the electrical characteristics and mechanical features of three-phase, 60 Hz, mineral-oil immersed, self-cooled, pad-mounted, compartmental-type distribution transformers rated 1500 KVA, 2000 KVA, and 2500 KVA.
- 1.2 All characteristics, definitions, terminology, voltage designations, and tests, except as specified herein, shall be in accordance with the following standards. When the standards listed here are superseded by an approved revision, the latest revision shall apply.
 - 1.2.1 IEEE C57.12.26-1992, IEEE Standard for Pad-Mounted, Compartmental-Type, Self-Cooled, Three-Phase Distribution Transformers for Use with Separable Insulated High-Voltage Connectors.
 - 1.2.2 ANSI C57.12.28-1988, American National Standard for Switchgear and Transformers - Pad-Mounted Equipment - Enclosure Integrity.
 - 1.2.3 IEEE C57.12.00-1987, IEEE Standard General Requirements for Liquid-Immersed Distribution, Power, and Regulating Transformers.
- 1.3 Quantity of units and commercial terms are stated in the Request for Quotation (RFQ).
- 1.4 Maximum lead time for delivery shall be as stated in the Request for Quotation (RFQ).

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2.0 ELECTRICAL CHARACTERISTICS

- 2.1 KILO-VOLT AMPERE RATING: 1500; 2000; 2500 KVA
(as stated in the RFQ)
- 2.2 HIGH-VOLTAGE RATING: 13200/7620 GROUNDED WYE
95KV BIL
15KV CLASS INSULATION
- 2.3 LOW-VOLTAGE RATING: 480Y/277 or 208Y/120
(as stated in the RFQ)
30KV BIL
1.2KV CLASS INSULATION
- 2.4 FULL CAPACITY VOLTAGE TAPS: 13860/13530/13200/12870/12540
- 2.5 PERCENT IMPEDANCE: 5.75%
- 2.6 LOOP FEED

3.0 CONSTRUCTION

3.1 FUSING

- 3.1.1 Under-oil bayonet fuse installed in a bayonet fuseholder; hookstick operable drawout bayonet; **SILVER CONTACT** surfaces on bayonet fuse and bayonet fuseholder; dual sensing for both fault clearing and overload sensing; the bayonet fuse shall be capable of clearing all currents below the specified minimum interrupting current of the backup fuse. Furnish three (3) spare bayonet fuses [for each transformer]; furnish storage compartment for spare fuses in dry type environment.
- 3.1.2 Backup current limiting fuse; under-oil (accessible through hand hole); list separate adder for mounting backup current limiting fuse in non-loadbreak canister if this option is available.

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3.2 LOSSES

Total losses (core loss and load loss) shall not exceed the following:

KVA RATING	NO-LOAD (CORE) LOSSES	WINDING (COPPER) LOSSES	TOTAL LOSSES
1,500	1,899	8,058	9,957
2,000	2,083	12,051	14,134
2,500	2,300	17,500	19,800

Losses based on 85 degrees celsius.

Transformers with higher loss values will not be considered.

No credit will be given for losses below this level.

3.3 PRESSURE RELIEF

A self-actuating pressure relief device to relieve slow pressure buildup shall be provided that will automatically vent when pressure reaches 10±2psig and recloses when pressure falls to 6psig.

3.4 ALTERNATE-FEED SWITCHING

Transformer shall be equipped with externally operated, 3 phase, 4 position, 300 ampere internal oil-immersed dual supply "loop feed" load break sectionalizing switch. [V-blade type switch]

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3.5 LOW VOLTAGE NEUTRAL

The low voltage neutral shall be a fully insulated bushing grounded to the ground pad provided on the outer surface of the tank with a removable ground strap and shall be independent of all other connections; the ground strap shall be adequate to carry the maximum available fault current.

3.6 ACCESSORY EQUIPMENT

Include the following equipment:

Pressure vacuum gage, PSI, 1/4" N.P.T. equipped with purge valve with spigot for 1/4" I.D. hose.

Dial-type thermometer with sealed well, NEMA standard 7.612, latest revision.

Tap changer handle in compartment.

Instruction nameplate inside low-voltage compartment.

1" drain valve with built-in sampling device.

1" upper filter press and filling plug (or cap).

Alternate/loop feed nameplate.

Parking stands mounted on the tank.

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3.7 CABINET SECURITY

Unlocking the padlock and disengaging the pentahead bolt shall permit access to both the high and low voltage terminations when the compartment doors are removed or opened. There shall be a steel barrier between the high voltage and low voltage compartments.

In addition to the regular locking provisions, access doors shall be secured by a recessed, captive, pentahead bolt which threads into a nut with a blind hole.

Each latched door shall be latched at a minimum of three points. In addition to the three point latching, one pentahead bolt shall be coordinated with the latch and padlock to prevent latching and insertion of the padlock into the hasp until the bolt head is essentially completely seated.

Stainless steel hinges and stainless steel pins (type 304) shall be provided.

Cabinet security shall comply with the test procedures and requirements of ANSI Standard C57.12.28-1988.

Provision shall be made for securing transformer to concrete pad.

3.8 SIZE CONSIDERATIONS

Maximum width of transformer shall not exceed 102" (including fins).

Minimum width of cabinet conduit blockout opening shall be 62"; minimum depth of cabinet shall be 24" with minimum conduit blockout opening depth of 20".

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3.9 LOW VOLTAGE BUSHINGS

The externally clamped low voltage bushings shall be epoxy with a ten (10) hole NEMA spade complying with Figure 9(c) of IEEE C57.12.26-1992; spade shall be tin-plated copper, minimum thickness of 1/2"; spade shall be furnished with an additional support, designed by the manufacturer, at the end furthest from the tank wall without interfering with the use of any of the ten holes. Spade shall be oriented for vertical take-off.

Bushing arrangement shall be per IEEE C57.12.26-1992, figures 7 and 8(a); staggered low voltage arrangement.

3.10 HIGH VOLTAGE BUSHINGS

Bushing arrangement shall be per IEEE C57.12.26-1992, figures 7 and 6(c).

High voltage bushing wells shall be externally clamped to the tank wall. Bushing wells shall be:

Elastimold No. K1601-PC-S2
Central Maloney Component No. 3-701981-50
Central Maloney Component No. 3-7022-1165
or, approved equal.

Equip high voltage bushings with the following load break inserts:

Elastimold No. 1601-A3R
General Electric No. 9U02AAB001
RTE No. 2604797B01M

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3.11 SELF-COOLED FINS

Fins shall be self-cooled "panel type". Design shall allow for future mechanical attachment of fans to bottom of fins to force air upward across fins.

Manufacturer is not required to rate unit with fans; power supply to fans is not a requirement of this specification. Fans/forced cooling shall not be considered in rating the transformer.

3.12 CORE AND COIL

There shall be three primary and three secondary windings wound on a five-legged core design.

Insulating paper used as layer insulation in transformer coils shall be coated on both sides with a thermosetting adhesive and properly cured prior to impregnating with oil.

4.0 PAINT FINISH

The transformer shall have a corrosion resistant finish that shall be capable of meeting the functional specifications shown in the Finish Requirements of ANSI C57.12.28-1988.

The topcoat color shall be Munsell 5BG 7.0/0.4 light gray.

5.0 TESTS

5.1 Transformers shall be tested for no load (85 degrees celsius) losses, percent impedance (85 degrees celsius) and exciting current (100% voltage).

5.2 Transformers shall be capable of withstanding short circuits in accordance with ANSI C57.12.00 and ANSI C57.12.90.

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5.3 Transformers shall pass all tests including but not limited to the following: connection test; demagnetization; high to low iron continuity; low to high iron continuity; 400 hertz over potential; iron loss; impulse test.

6.0 INFORMATION REQUIRED WITH PROPOSAL

Include the following information with proposal:

Guaranteed maximum NO LOAD LOSSES, WINDING LOSSES, TOTAL LOSSES; and IMPEDANCE; (based on 85 degrees celsius).

Outline drawing; product bulletins/brochures.

A statement that the proposal meets all the requirements of the specifications; list each and every exception/clarification to the specifications.

7.0 DOCUMENTATION REQUIRED AFTER PLACEMENT OF ORDER

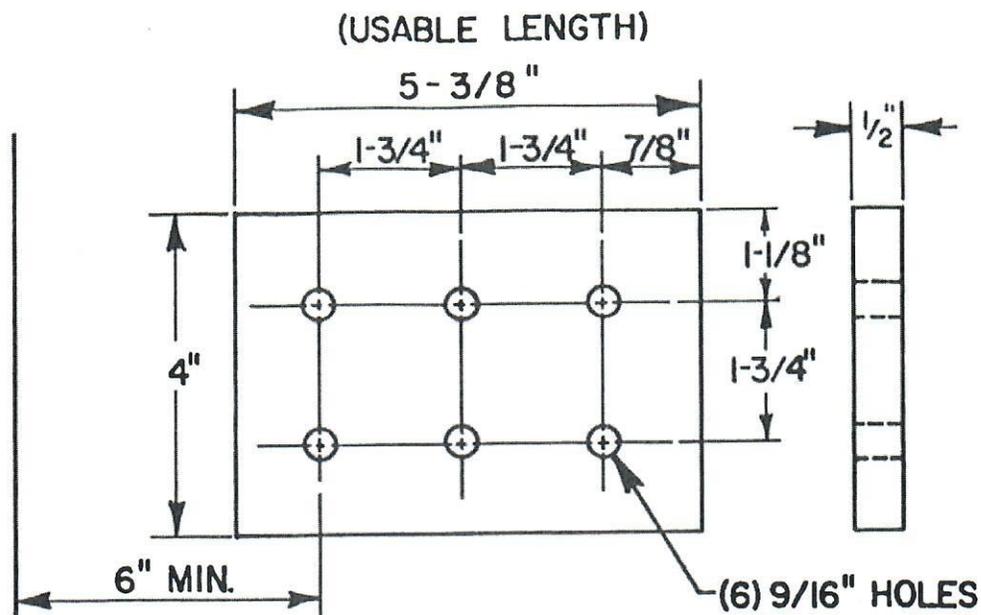
Submit approval drawings before fabrication of transformers.

Furnish three copies of drawings and manuals for each unit ordered:

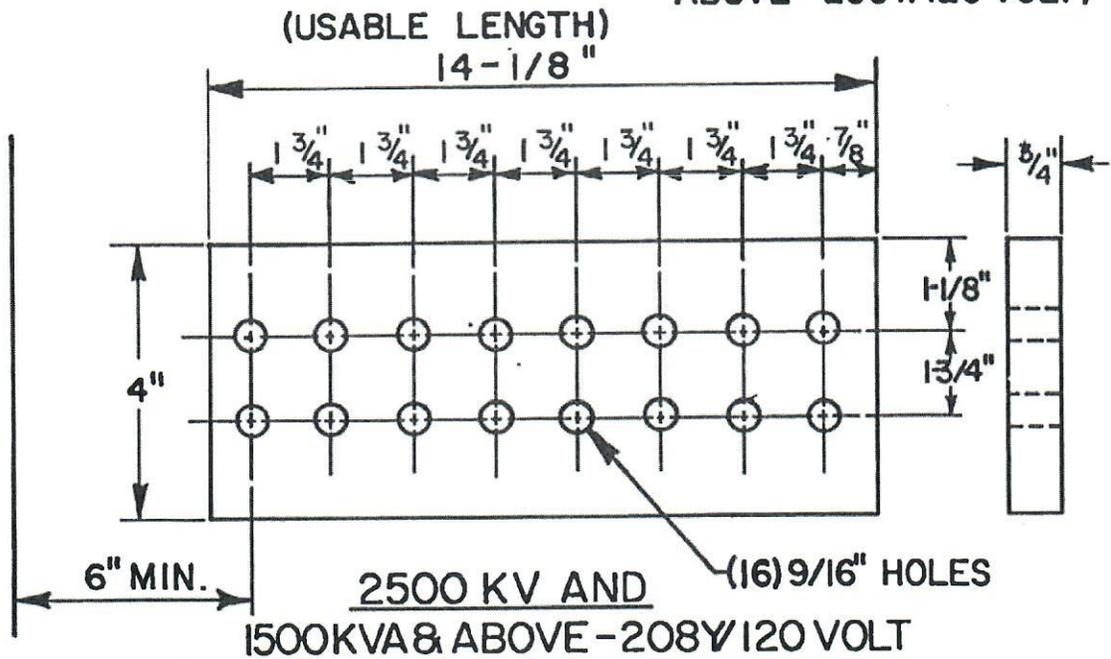
Outline drawing.
Nameplate drawing.
Maintenance manuals.
Operation manuals.
Installation/Instruction manuals.

Furnish three copies of certified test data showing conformance with the requirements.

END



150 - 2000 KVA (EXCEPT 1500 KVA & ABOVE - 208Y/120 VOLT)

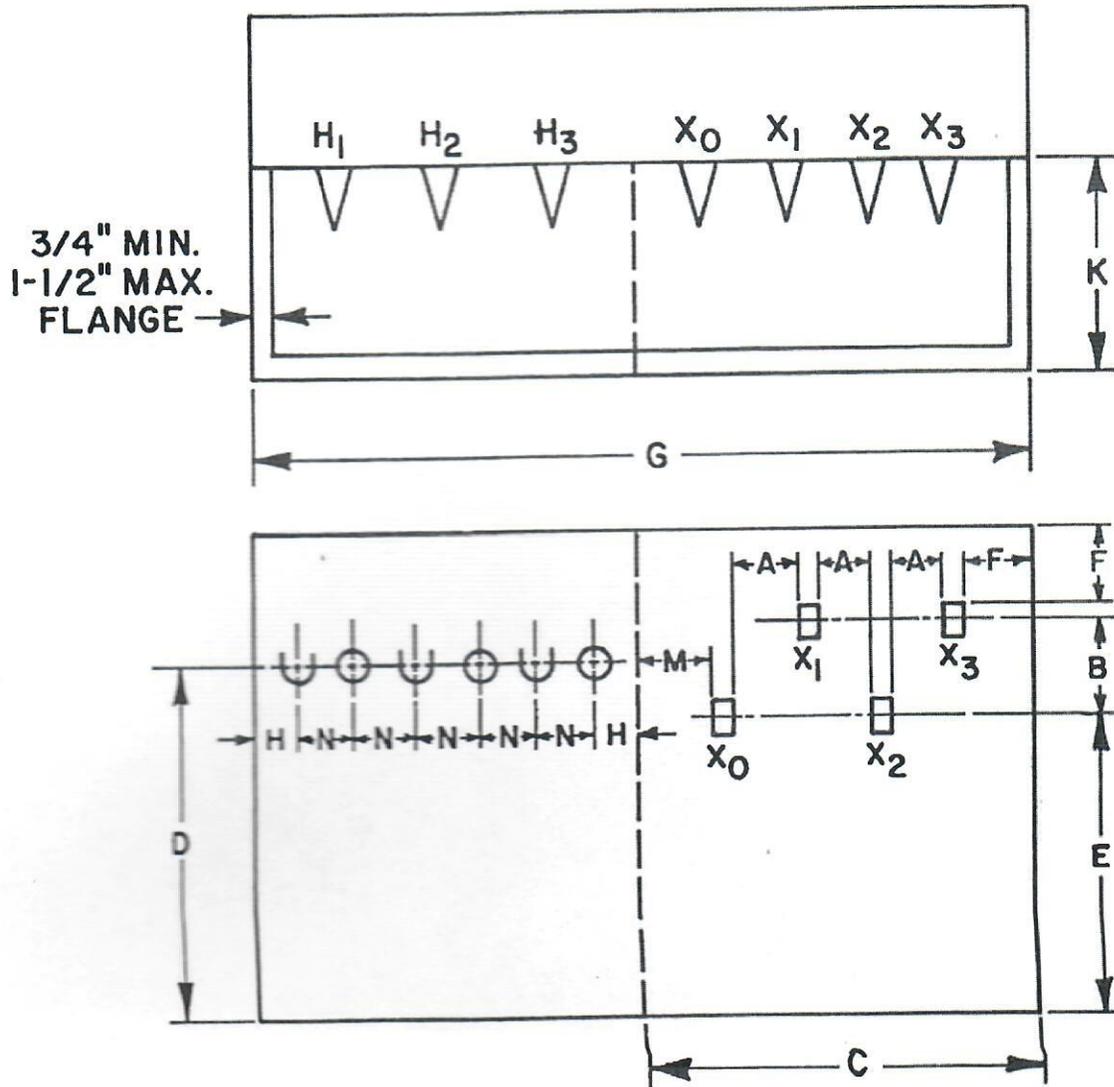


LOW VOLTAGE TERMINALS

FIGURE 2

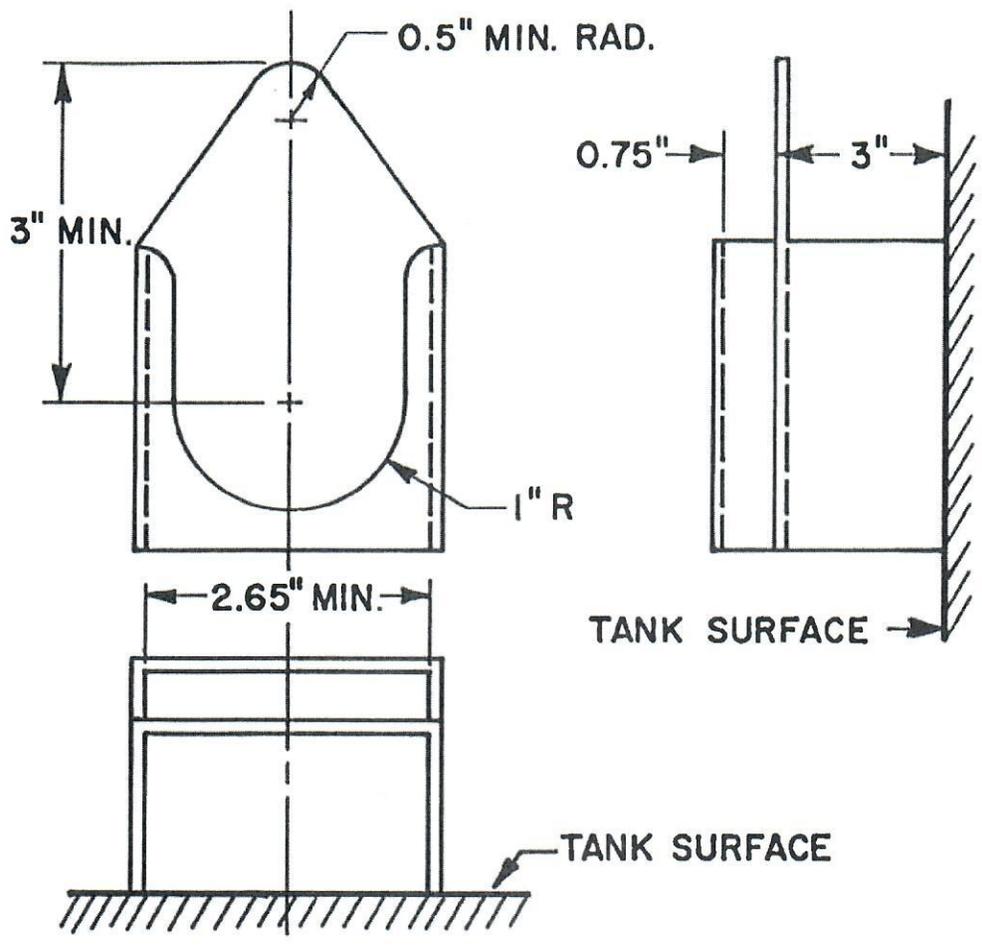
DEAD FRONT

FIGURE 1.



KVA	A	D	E	C	G	K
150	5 ± 1/8"	27 ± 1/8"	27 ± 1/2"	24" MIN.	51 1/4" MIN.	18" MIN.
300 - 500	6 ± 1/8"	27 ± 1/8"	31 ± 1/2"	27" MIN.	54 1/4" MIN.	18" MIN.
750 - 2500	6 ± 1/8"	27 ± 1/8"	46 ± 1/2"	27" MIN.	54 1/4" MIN.	24" MIN.

B	8 ± 1/8"
F	4" MIN.
H	3.5" MIN.
I	9"
M	3" MIN.
N	5" MIN.



PARKING STAND DETAIL

FIGURE 7.

GENERAL TERMS AND CONDITIONS FOR THE CITY OF NORTH LITTLE ROCK, AR

1. When submitting an "Invitation to Bid," the bidder warrants that the commodities covered by the bid shall be free from defects in material and workmanship under normal use and service. In addition, bidder must deliver new commodities of the latest design and model, unless otherwise specified in the "Invitation to Bid."
2. Prices quoted are to be net process, and when an error is made in extending total prices, the City may accept the bid for the lesser amount whether reflected by extension or by the correct multiple of the unit price.
3. Discounts offered will be taken when the City qualifies for such. The beginning date for computing discounts will be the date of invoice or the date of delivery and acceptance, whichever is later.
4. When bidding other than the brand and/or model specified in the "Invitation to Bid," the brand and/or model number must be stated by that item in the "Invitation to Bid," and descriptive literature be submitted with the bid.
5. **REJECTION**
 - A. The City reserves the right to reject any or all Bids, to waive any minor informality or irregularity in any Bid, to negotiate changes and/or modifications with the lowest responsible bidder and to make award to the response deemed to be the most advantageous to the City. Bidders shall be required to comply with all applicable federal, state and local laws.
 - B. The City reserves the right to cancel request for bids without penalty with it is in the best interest of the City. Notice of Cancellation shall be inserted on the City's website (www.nlr.ar.gov).
 - C. Any Bid not conforming to the specifications or requirements set forth by the City in this Bid Request may be rejected.
 - D. Bids may be also rejected if they are made by a Bidder that is deemed un-responsible due to lack of qualifications, capacity, skill, character, experience, reliability, financial stability or quality of services, supplies, materials, equipment or labor.
 - E. The City of North Little Rock reserves the right to reject any and all bids, to accept in whole or in part, to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency of operation will not be impaired, and unless otherwise specified by the bidder, to accept any item in the bid. If unit prices and extensions thereof do not coincide, the City of North Little Rock may accept the bid for the lesser amount whether reflected by the extension or by the correct multiple of the unit price
6. The Purchasing office reserves the right to award items, all or none, or by line item(s).
7. Quality, time and probability of performance may be factors in making an award.
8. Bid quotes submitted will remain firm for 30 calendar days from bid opening date; however, the prices may remain firm for a longer period of time if mutually agreeable between bidder and the Purchasing Office.
9. Bidder must submit a completed signed copy of the front page of the "Invitation to Bid" and must submit any other information required in the "Invitation to Bid."
10. In the event a contract is entered into pursuant to the "Invitation to Bid," the bidder shall not discriminate against any qualified employee or qualified applicant for employment because of race, sex, color, creed, national origin or ancestry. The bidder must include in any and all subcontracts a provision similar to the above.
11. Sales or use tax is not to be included in the bid price, but is to be added by the vendor to the invoice billing to the City. Although use tax is not to be included in this bid, vendors are to register and pay tax direct to the Arkansas State Revenue Department.

12. Prices quoted shall be "Free on Board" (F.O.B.) to destination at designated facility in North Little Rock. Charges may not be added after the bid is opened.
13. In the event of two or more identical low bids, the contract may be awarded arbitrarily or for any reason to any of such bidders or split in any proportion between them at the discretion of the Purchasing Office.
14. Specifications furnished with this Invitation are intended to establish a desired quality or performance level, or other minimum dimensions and capacities, which will provide the best product available at the lowest possible price. Other than designated brands and/or models approved as equal to designated products shall receive an equal consideration.
15. Samples of items when required, must be furnished free, and, if not called for within 30 days from date of bid opening, will become property of the City.
16. Bids will not be considered if they are:
 1. Submitted after the bid's opening time.
 2. Submitted electronically or faxed (unless authorized by Purchasing Manager).
17. Guarantees and warranties should be submitted with the bid, as they may be a consideration in making an award.
18. **CONSTRUCTION**
 - A. Contractor is to supply the City with evidence of having and maintaining proper and complete insurance, specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas, Public Liability and Property Damage. All premiums and cost shall be paid by the Contractor. In no way will the City be responsible in case of accident.
 - B. When noted, a Certified check or bid bond in the amount of 5% of total bid shall accompany bid.
 - C. A Performance Bond equaling the total amount of any bid exceeding \$50,000.00 must be provided for any contract for the repair, alteration or erection of any public building, public structure or public improvement (pursuant to Arkansas Code Annotated Section 22-9-203).
19. **LIQUIDATED DAMAGES** – Liquidated damages shall be determined at the time of contract negotiations, based upon the construction contract price and stated time period set for completion of the project. Liquidated damages shall be assessed beginning on the first day following the maximum delivery or completion time entered on this bid form and/or provided for by the plans and specifications.
20. **AMBIGUITY IN BID** - Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance by the bidder with specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the City.
21. The bid number should be stated on the face of the sealed bid envelope. If it is not, the envelope will have to be opened to identify.
22. Whenever a bid is sought seeking a source of supply for a specified period of time for materials and services, the quantities of usage shown are estimated ONLY. No guarantee or warranty is given or implied by the participants as to the total amount that may or may not be purchased from any resulting contracts. These quantities are for the bidders information ONLY and will be used for tabulation and presentation of bid and the participant reserves the right to increase or decrease quantities as required.

23. The City of North Little Rock will follow procedures to check bidder eligibility through the federal System for Award Management (S.A.M.) as outlined in 2 C.F.R. § 200. This will be completed prior to the award of any contract in which federal grant funds will be expended.
24. Respondents acknowledge and understand that upon award of the winning Bid, the Respondent will be required to review and sign a contract with the City of North Little Rock, which will contain additional terms and conditions, prior to providing any services to the City. In the event of any discrepancy or contradiction between the bid documents, Terms and Conditions or other such documents, the provisions in the contract shall take precedence.
25. Additional information or bid forms may be obtained from:

COMMERCE DEPARTMENT, 700 West 29th Street, P.O. Box 5757, North Little Rock, Arkansas 72119 (501)975-8881
www.nlr.ar.gov

Bidding documents must be submitted on or before the bid's opening date and time. Unless noted, bids must be sealed and mailed or delivered to:

**Amy Smith, Purchasing Manager
Commerce Department
700 W. 29th Street, 3rd Floor
North Little Rock, AR 72114**

The City of North Little Rock is committed to fair and equal opportunity in employment and service delivery regardless of race, color religion, gender, age, disability, sexual orientation, gender identity or expression, genetic information, marital status, national origin, or veteran status. This policy statement reinforces and communicates that commitment to employees.

BIDDERS ACKNOWLEDGE AND UNDERSTAND THAT UPON AWARD OF THE WINNING BID, THE SELECTED BIDDER WILL BE REQUIRED TO REVIEW AND SIGN A CONTRACT WITH THE CITY OF NORTH LITTLE ROCK PRIOR TO BEGINNING WORK.