

**COUNTY OF MOORE
NORTH CAROLINA**

INFORMAL BID

ISSUE DATE: March 31, 2016

INFORMAL BID 2016-05

TITLE: Pinehurst Lake Sanitary Sewer Rehabilitation Project

**ISSUING DEPARTMENT: COUNTY OF MOORE
Financial Services
206 S. Ray Street
PO Box 905
Carthage, NC, 28327**

Sealed Bids will be received until 4:30 PM Thursday April 14, 2016 from qualified firms for the Pinehurst Lake Sanitary Sewer Rehabilitation Project for the County of Moore Public Works Department. All inquiries for information concerning the Bid shall be directed to:

**Terra Vuncannon, Purchasing Coordinator
PO Box 905
Carthage, NC 28327
(910) 947-7118
tvuncannon@moorecountync.gov**

Sealed Bids shall be provided to Terra Vuncannon; it is the sole responsibility of the vendor to ensure that its bid reaches the Financial Services by the designated date and hour indicated above.

Firm Name: _____

Address: _____

By: _____
(Printed)

By: _____
(Signature)

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**PINEHURST LAKE SANITARY SEWER REHABILITATION PROJECT
TO SERVE
MOORE COUNTY PUBLIC WORKS DEPRATMENT**

INSTRUCTIONS TO BIDDERS

1. **Sealed Bid shall be submitted to the Issuing Department and include the enclosed Bid Form.** In order for a bid to be considered, it shall be based on the terms, conditions and specifications contained herein and shall be a complete response to this Informal Bid. The County reserves the right to make an award in whole, or in part, and to reject any and/or all bids, and to waive any informality in proposals unless otherwise specified by the Proposer. The Proposer shall sign the bid correctly and bids may be rejected if they show omissions, alterations of form, additions not called for, conditional proposals or any irregularities of any kind.
2. All labor costs, direct and indirect, shall have been determined and included in the proposal. The cost and availability of all equipment, materials, and supplies associated with performing the services described herein shall have been determined and included in the proposal. Do not include sales tax in proposal figures. The County pays sales tax and will add this to your proposal figures separately when invoices are paid. All price quotes shall include delivery to the delivery point, installation and set-up charges, as necessary. Goods shall be set in place ready for owner's use. All goods shall be new and of average quality. No remanufactured, refurbished or used goods will be accepted. Appropriate product information (e.g. brochures, catalog cuts, etc.) shall be included with the proposal.
3. After the Informal Bid issue date, all communications between the Issuing Department and prospective Proposers shall be in writing. No oral questions shall be accepted. Any inquiries, requests for interpretation, technical questions, clarifications, or additional information shall be directed to Terra Vuncannon at the address listed on page one if this solicitation or via e-mail to tvuncannon@moorecountync.gov. All questions concerning this Informal Bid shall reference the section and page number. Questions and responses affecting the scope of the goods will be provided to all prospective Proposers by issuance of an Addendum. **All written questions shall be received by the Issuing Department no later than 10:00 am Thursday April 7, 2016. NO EXCEPTIONS. All addendums pertaining to this Informal Bid will be posted to the County website at www.moorecountync.gov within 24 – 48 business hours after the deadline for questions. It is the bidder's responsibility to check the website for the addendums.**
4. The County will not be responsible for any oral instructions. Should a Proposer find discrepancies in, or omissions from the documents, or should be in doubt as to their meaning, s/he should at once notify the Issuing Department in writing, and a written addendum shall be issued. Acknowledgement of any Addendum received during the time of the proposal shall be noted on the Bid Form in the spaces provided. In closing of a contract, any Addendum issued shall become a part thereof. **It is the Proposer's responsibility to assure that all addenda have been reviewed and, if need be, signed**

and returned.

5. Proposals will be examined promptly after opening and award will be made at the earliest possible date. The prices quoted must be held firm, and no proposals may be withdrawn until **90 days** after proposal opening date. The County reserves the right to conduct any test/inspection it may deem advisable to ensure services/materials/supplies/equipment, as appropriate, conform to specifications.
6. Pursuant to North Carolina General Statutes Section 143-131, “award shall be made to the lowest responsible, responsive bid or bidders, taking into consideration quality, performance and the time specified in the proposals for the performance of the contract.”
7. The materials/supplies/equipment furnished under any resulting contract shall be covered by the manufacturer’s most favorable commercial warranty. Each Proposer shall plainly set forth the warranty for the goods in the proposal. Operations and maintenance manuals for equipment shall also be provided, as appropriate.
8. All purchases for goods or services are subject to the availability of funds for this particular purpose.
9. The contractor shall not represent itself to be an agent of the County.
10. The General Statutes of the State of North Carolina, insofar as they apply to purchasing and competitive bidding, are made a part hereof.
11. The County of Moore is committed to creating and maintaining an environment free from harassment and other forms of misconduct that fundamentally compromise the working environment of the County. All contractors performing work/services at a County facility shall take all necessary steps to assure that none of its employees engage in harassment or intimidation relating to personal beliefs or characteristics of anyone on the County’s premises, including but not limited to, race, religion, age, color, sex, national origin or disability. Such harassment is unacceptable and will not be condoned in any form at the County of Moore. If such conduct occurs, the contractor will take all necessary steps to stop it and prevent its future occurrence. This policy shall be strictly enforced.
12. For all the work being performed under this Contract, the County of Moore has the right to inspect, examine, and make copies of any and all books, accounts, records and other writing relating to the performance of the work. Audits shall take place at times and locations mutually agreed upon by both parties, although the vendor/contractor must make the materials to be audited available within one (1) week of the request for them.
13. Proposers are cautioned that this is an informal bid, not a request for contract, and the County of Moore reserves the right to reject any and/or all proposals. It further reserves the right to waive informalities insofar as it is authorized so to do where it deems it advisable in protection of the best interests of the County.

14. Proposals will be tabulated, evaluated and a recommendation presented to the County of Moore Board of Commissioners for their approval.
15. Any and all exceptions to the Specifications must be stated in writing, giving complete details of what is to be furnished in lieu of requested Specifications.
16. The County of Moore reserves the right to cancel and terminate any resulting contract, in whole or in part, without penalty, upon forty-five (45) days' notice to the Vendor(s). Any contract cancellation shall not relieve the Vendor(s) of the obligation to deliver any outstanding services issued prior to the effective date of the cancellation.
17. **Sealed Bids in one (1) original and three (3) copies will be received from each Proposer in a sealed envelope or package.** Each original shall be signed and dated by an official authorized to bind the form. Unsigned proposals will not be considered.
18. Upon receipt by Moore County Financial Services, your Proposal is considered a public record except for material which qualifies as "trade secret" information under N.C. Gen. Stat. 66-152 et. seq. After the Proposal opening, your Proposal may be reviewed by the County's evaluation committee, as well as other County staff and members of the general public who submit public records requests. To properly designate material as trade secret under these circumstances, each Proposer must take the following precautions: (a) any trade secrets submitted by a Proposer must be submitted in a separate, sealed envelope marked "Trade Secret — Confidential and Proprietary Information — Do Not Disclose Except for the Purpose of Evaluating this Proposal," and (b) the same trade secret/confidentiality designation must be stamped on each page of the trade secret materials contained in the envelope.

In submitting a Proposal, each Proposer agrees that the County may reveal any trade secret materials contained in such response to all County staff and County officials involved in the selection process, and to any outside consultant or other third parties who serve on the evaluation committee or who are hired by the County to assist in the selection process. Furthermore, each Proposer agrees to indemnify and hold harmless the County and each of its officers, employees, and agents from all costs, damages, and expenses incurred in connection with refusing to disclose any material which the Proposer has designated as a trade secret. Any Proposer that designates its entire Proposal as a trade secret may be disqualified.

19. Proposer shall comply with the North Carolina Workers' Compensation Act and shall provide for the payment of workers' compensation to its employees in the manner and to the extent required by such Act. In addition the Provider shall maintain, at its expense, the following minimum insurance coverage:

General Liability - \$2,000,000
Auto Liability - \$2,000,000
Umbrella Coverage - \$5,000,000

20. Proposer certifies that: (i) Proposer is not listed on the Final Divestment List created by the State Treasurer pursuant to N.C.G.S. § 143C-6A-4 (the “Final Divestment List”), and (ii) Proposer will not utilize any subcontractor performing work under this Informal Bid which is listed on the Final Divestment List. The Final Divestment List can be found on the State Treasurer’s website at the address www.nctreasurer.com/Iran and should be updated every 180 days.

21. Contractor must have active North Carolina Public Utilities Contractors License or a PU (Water Lines and Sewer Lines) Specialty License.

**PINEHURST LAKE SANITARY SEWER REHABILITATION PROJECT
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TECHNICAL SPECIFICATIONS

1.0 GENERAL

- A. This specification is intended to provide guidance for the rehabilitation of sanitary sewer line using Cured-In-Place Pipe (CIPP) and lining of manholes.
- B. The Contractor shall be in compliance with all applicable ASTM Standards for the method and products used.
- C. Quantities listed in this document are approximate and are assumed solely for comparison of Bids. Compensation will be based upon the unit price bid and actual quantities.
- D. The contract time for the work shall be ninety (**90**) consecutive calendar days from the date of Notice-To-Proceed.
- E. The Contractor shall be responsible for furnishing, delivery, storage, and handling of all materials.
- F. The Contractor shall comply with all applicable OSHA regulations. The Contractor shall provide documentation that his/her personnel or subcontractors on this project, have received Confined Space Training. Confined space regulations and procedures will be strictly enforced.
- G. The recipient of the contract shall attend a pre-construction conference at a date and time agreed upon, prior to commencing work.
- H. The Contractor shall provide and maintain temporary sanitary facilities in compliance with governing laws. The location for temporary facilities shall be determined during the pre-construction meeting.
- I. Safety Data Sheets on all products used during construction shall be retained at the job site and be available for Owner's review.

2.0 SCOPE OF WORK

- J. The project consists of furnishing all labor, material and equipment necessary to complete the Work covered in this specification. The work shall include sewer main cleaning, pre-installation closed circuit television (CCTV) inspection, bypass/collection of sewage, rehabilitation of approximately eight hundred ten (810) linear feet of eight (8) inch Verified Clay (VC) pipe sanitary sewer main, lining of thirteen (13) manholes at a total of one hundred and sixty one (161) vertical feet along with rehabilitation of

inverts/benches, re-establishment of existing laterals and inverts, post-installation CCTV inspection and all other work necessary for a “turnkey” job.

- A. It is the Contractor’s responsibility to visit the project site and obtain all necessary field measurements of the existing manholes and pipes for verification of depth, diameter, ovality, length, etc.
- B. All work and materials shall comply with these specifications, applicable ASTM Standards, and the specific product manufacturer’s guidelines. Any conflict between these documents shall be resolved with the Owner prior to proceeding with work.

3.0 PRODUCT, MANUFACTURER, INSTALLER QUALIFICATION REQUIREMENTS

- A. Bidders shall be licensed Contractors in the State of North Carolina at the time of submission of bid.
- B. CIPP products shall have a minimum fifty (50) year design life. Only proven products with substantial successful long-term track records will be allowed. Documentation must be provided and meet the satisfaction of the Owner.
- C. All contractors shall be licensed or certified by the manufacturer of the product being installed. The Contractor and its sub-contractor(s) must have a minimum of five (5) years of experience in the installation of the system proposed. Contractor shall submit a list of at least four (4) references for similar restoration projects. The Contractor shall be responsible for submitting references for sub-contractors.
- D. The Contractor must satisfy all insurance, financial and bonding requirements of the Owner.

4.0 SUBMITTALS

- A. A Notice-of-Award for the Contract will be issued once a successful bidder has been determined. Upon receiving Notice-of-Award of Contract, the Bidder shall, within ten (10) Calendar Days submit the following (Include Documentation on both Manhole and Sewer Main Rehabilitation):
 - 1) Manufacturer’s Certificate of Compliance certifying compliance with all applicable specifications and standards.
 - 2) Documentation that installer has the experience and is licensed and/or certified by the manufacturers.
 - 3) Manufacturer’s product technical data sheet(s).
 - 4) Manufacturer’s installation instructions and procedures.

- 5) CIPP pipe sizing and thickness data using applicable ASTM standards.
- 6) Contractor's Certificate of Insurance
- 7) Proof that Contractor possesses a valid North Carolina Contractor's License.

5.0 MANHOLE CLEANING AND PREPARATION

- A. The floor and interior walls of the manhole shall be thoroughly cleaned and made free of all foreign materials including dirt, grit, roots, grease, sludge and all debris or material that may be attached to the wall or bottom of the manhole.
- B. When grease and/or oil are present within the manhole, and conditions allow, a detergent or muriatic acid, approved by Owner, may be used integrally with the high pressure cleaning water.
- C. All materials resulting from the cleaning of the manhole shall be captured in manhole and removed prior to applying liner.
- D. All loose or defective brick, grout, ledges, steps and protruding ledges shall be removed to provide an even surface prior to application of liner.

6.0 MANHOLE PATCHING

A. Materials

- 1) Patching material shall be quick setting, fiber reinforced, calcium aluminate, corrosion resistant, cementitious material, mixed and applied according to manufacturer's recommendations and having the following minimum requirements:

Compressive Strength (ASTM C109)	1,400 psi (6 hours)
Bond (ASTM C321)	145 psi (28 days)
Cement	Calcium Aluminate
Applied Density	105 lb/ft ³
Shrinkage (ASTM C596)	0 percent at 90 percent relative humidity

B. Execution

- 1) Patching of manhole walls or sewer structures shall be required in areas where large voids exist, such as mortar missing between bricks, around step frames, pipes and spalled concrete. All loose, cracked and corroded material shall be removed from the area to be patched, exposing a sound substrate. A fast setting mortar shall be applied to dampened surfaces. These products shall be allowed to cure before applying linings.

- 2) When leaks are not readily identifiable upon completion of cleaning operation, use a blower to dry the manhole interior for positive identification of leaks and weep areas.
- 3) Drill a hole at each identifiable leakage point from inside the manhole and extending through the sidewall of the manhole. Insert a metal rod through the hole to determine if exterior void space exists. Fill exterior void spaces with expandable grout mix. Pump into void space until refusal is recorded by rise in pressure on pump pressure gauge. Ensure the hole through the manhole wall is kept open and free of patching material. Plug the hole and allow one hour for material to set.
- 4) Upon completion of grouting, pump manhole sealant until refusal at a minimum pressure of 3.0 psi through probe type injection equipment. Deposit sealant coating from interior surface of set grout through drilled hole to inside surface of manhole.
- 5) Upon setting of sealant coatings, remove excess material protruding into inside of manhole.
- 6) Patching/plugging manhole defects as necessary, or directed by the Owner, shall be performed to provide a smooth surface for application of the lining material.

7.0 MANHOLE SEALING OF ACTIVE LEAKS

A. Stop active leaks with patching material or infiltration control materials applied according to manufacturer's instructions. Install weep holes as required to localize infiltration during application of patching material or infiltration control material. Plug weep holes after application with infiltration control material before applying liner material.

B. Infiltration Control

- 1) If inflow or infiltration is observed within the structure after surface preparation is completed, a rapid setting crystalline enhanced hydraulic cement product specifically formulated for infiltration control shall be used to stop minor infiltration flows in accordance with the manufacturer's recommendations. The material shall meet the following strength requirements:

Compressive Strength (ASTM C109)	400-600 psi, 1 hour 1,800- 2,400 psi
Bond Strength (ASTM C321)	30 psi (1 hour) 80 psi (1 day)
C109	24 hours

	0.10 percent
Expansion (ASTM C827)	No weight loss after 15 cycles
Sulfate Resistance (ASTM C267)	200 ppm 100 cycles
Freeze/Thaw (ASTM C666)	Method A
Pull Out Strength (ASTM C234)	14,000 lbs
Placement time	Less than 1 minute

- 2) The material shall be Multigrout, Octocrete, Thoroc Plug or an approved equal. Where infiltration flows are more severe, pressure grouting may be required. The material for pressure grouting shall be Avanti A-220, DeNeef or an approved equal installed in accordance with the manufacturer's written instructions.
- 3) All materials, labor, equipment, and incidentals required to correct inflow and infiltration conditions will be considered incidental to rehabilitation.

8.0 MANHOLE INVERT, BENCH AND TROUGH REPAIR

A. Materials used for bench and trough repairs shall be a rapid setting, high early strength, non-shrink material.

C. Execution

- 1) Repair invert channels to provide a smooth flow transition waterway with no disruption of flow at pipe-manhole connections. Conform to following criteria:
 - i. Slope of invert bench: 1-inch per foot minimum; 1-1/2-inches per foot maximum
 - ii. Depth of bench to invert:
 - Pipes smaller than 15-inches: one-half of largest pipe diameter
 - Pipes 15 to 24-inches: three-fourths of largest pipe diameter
 - Pipes larger than 24-inches: equal to largest pipe diameter.
 - iii. Invert slope through manhole: 0.10 foot drop across manhole with smooth transition of invert through manhole, unless otherwise indicated by the Owner.
- 2) Form invert channels with concrete if not integral with manhole base section.
- 3) For direction changes of mains, construct channels tangent to mains with maximum possible radius of curvature. Provide curves for side inlets and smooth invert fillets for flow transition between pipe inverts.
- 4) Hand mix and use a rapid setting, high early strength, non-shrink patching

material to fill all large voids and repair inverts prior to lining of the manhole. For invert repairs, flow must be temporarily restricted by inflatable or mechanical plugs prior to cleaning or a bypass may be installed.

- 5) The area to be repaired must be cleaned and free of all debris.
- 6) Mix water shall be clean potable water and require no additives or admixtures for use with cementitious patching materials.
- 7) Cementitious material shall be mixed in a mortar tub or 5-gallon pail with water per manufacturer's specifications. Material shall be mixed in small quantities to avoid setting prior to placement in voids or inverts.
- 8) Once mixed to proper consistency, the materials shall be applied to the invert or void areas by hand or trowel. In invert applications, care should be taken to not apply excessive material in the channel, which could restrict flow. Once applied, materials shall be smoothed either by hand or trowel in order to facilitate flow.
- 9) Flows in inverts shall be reestablished within sixty (60) minutes of material placement.

9.0 MANHOLE REHABILITATION PRODUCTS

C. Cementous Manhole Liner

- 1) Product
 - i. Lining material furnished under this specification shall be a prepackaged mortar mix, including all cement, aggregates and any required additives. It is the intent of this specification that the Contractor only be required to add the proper amount of potable water so as to produce concrete suitable for spray application. Do not add Portland cement, other aggregates or any admixtures whatsoever to lining material. Typical package weights shall not be less than 50 lbs and shall be identical for all material furnished on this project.
 - ii. The chemical composition of the cement portion as well as the aggregates of the mortar mix shall be as follows:

Al ₂ O ₃	CaO	FeO + Fe ₂ O ₃	SiO ₂
39-44%	34-38%	9-15%	6-8%

- iii. The properties of the mortar mix under standard laboratory conditions are typically as follows:

Compressive Strength (ASTM C109)	> 5,500 psi	24 hours
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Flexural Strength (ASTM C348)	> 900 psi	24 hours
Splitting Tensile Strength (ASTM C496)	> 550 psi	24 hours
Slant Shear test (ASTM C882)	> 2,500 psi	28 days
Shrinkage at 28 days (ASTM C157)	< 0.07%	
Freeze/Thaw after 300 Cycles (ASTM	< 102	

- iv. The mortar mix shall be either “SewperCoat PG”, “SewperCoat 2000HS Regular” by Kerneos Inc. or an approved equal.
- v. Mortar mix must have at least seven (7) years of successful performance in similar applications and be supplied by an ISO 9001 certified manufacturer. Manufacturer’s ISO 9001 certificate shall be submitted to Owner.
- vi. Mortar mix manufacturer shall offer to the Owner a labor and materials replacement limited warranty for a period of no less than ten (10) years from the date of Owner acceptance of the installation.
- vii. In addition, the mortar mix shall be designed to withstand long-term exposure to a bacterially corrosive hydrogen sulfide environment that may be expected to produce a pH of 1 on normal Portland cement based concrete or typical brick and mortar surfaces.
- viii. Water used in mixing shall be fresh, clean, potable water, free from injurious amounts of oil, acid, alkali, vegetable, sewage and/or organic matter. Water shall be considered as weighing 8.32 pounds per gallon.
- ix. Mortar mix shall be stored with adequate provisions for the prevention of absorption of moisture. It shall be stored in a manner that will permit easy access for inspection and identification of each shipment.

2) Execution

- i. A recognized independent testing laboratory shall test mortar materials used on the project. The manufacturer, instead of an independent laboratory, may test project sample specimens, provided the Owner and Manufacturer are in agreement of this testing method prior to project commencement.
- ii. The cost of sampling and testing of the mortar mix during placement and the surface to which it is applied shall be the responsibility of the Contractor. Other testing required showing conformance with these specifications shall be the responsibility of the Contractor. Certified test reports and certificates, when so directed, shall be submitted in duplicate to the Owner and to such other agencies or persons the Owner may

designate.

- iii. Any materials failing to meet the requirements of these specifications shall not be incorporated into the work plan.
- iv. Prior to project commencement, the Contractor must satisfy the Owner that all Contractor's work crew personnel have performed satisfactory work in similar capacities elsewhere for a sufficient period of time to be fully qualified to properly perform the work in accordance with the requirements of the related specifications.
- v. Foreman shall have at least four (4) years of experience with similar work and project conditions.
- vi. Nozzlemen shall be qualified by having had similar work experience.
- vii. Job foreman shall operate the mixing/placing equipment and direct the work of mixing crew personnel. Applicator's work crew shall also maintain proper line pressures throughout the mixing/placing equipment to ensure the necessary consistent nozzle velocity. Applicator's work crew shall further see that all material fed to the nozzle is uniformly fed through this equipment.
- viii. Equipment shall be of spray type and approved by the material manufacturer. Alternate equipment may be utilized provided it meets the performance requirements of the manufacturer. All equipment must be kept in operating condition and good repair.

3) Construction Methods

- i. Ensure all sub-surfaces are clean and free of laitance, loose material, residue and all existing coating and lining materials.
- ii. Sub-surfaces shall be thoroughly saturated with water prior to the application of the lining materials. In no instance shall shotcrete be applied in an area where running water exists. It is the intent of this specification that the existing surface be saturated and free of any running water just prior to installation – or SSD, “saturated surface dry condition.” To achieve this condition it may be necessary to presoak the sub-surface for at least 24 hours.
- iii. The Contractor shall provide all equipment necessary to individually gauge, control, and monitor the actual amounts of all component materials necessary to complete the lining installation. The type of equipment and methods used to gauge, control, and monitor component materials shall be subject to approval by the Owner and Manufacturer.

- iv. All lining materials shall be thoroughly mixed by mechanical means to ensure all agglomerated particles are reduced to original size or removed prior to placement into the application equipment (i.e. the hopper). Each batch of material should be entirely discharged before recharging with fresh material. Mixing equipment shall be cleaned at regular intervals to remove all adherent materials.
- v. The addition of water to the mix shall be in strict accordance with the Manufacturer's recommendations.
- vi. Re-mixing or tempering shall not be permitted. Rebound materials shall not be reused.
- vii. During progress of the work, adjacent areas or grounds which may be permanently discolored, stained or otherwise damaged by dust and rebound material, shall be adequately protected and, if contacted, shall be cleaned by early scraping, brushing or washing as the surroundings permit.
- viii. Lining material shall not be applied to a frozen surface or to a surface that may freeze within 24 hours of application. Frozen conditions shall be defined as ambient temperatures of 32 degrees Fahrenheit or below.
- ix. Sequence of application may be from bottom to top or vice versa if rebound is properly removed.
- x. Application shall be from an angle as nearly perpendicular to the surface as practicable, with the nozzle held at least 1 foot from the working sub-surface (except in confined control). If the flow of material at the nozzle is not uniform and slugs, sand spots or wet sloughs result, the nozzleman shall direct the nozzle away from the work until the faulty conditions are corrected. Such defects shall be replaced as the work progresses.
- xi. Application shall be suspended if:
 - 1. Air velocity separates the cement from the aggregate at the nozzle.
 - 2. Ambient temperature approaches freezing.
- xii. The time interval between successive layers of material application must be sufficient to allow "tackiness" to develop but not final set.
- xiii. Construction joints within a manhole shall be avoided. In the event a construction joint is necessary and approved by the Owner, it shall be sloped off to a thin, clean, regular edge, at a 45-degree angle. Prior to placement of the adjoining materials, the sloped portion and adjacent

applied material shall be thoroughly cleaned as necessary, then moistened and scoured with an air jet.

- xiv. Nozzleman shall bring the material to an even plane and to well-formed corners.
- xv. After the body coat has been placed, the surface shall be trued with a thin-edge screed to remove high areas and expose low areas. Low areas shall be properly filled with additional material to insure a true, flat surface.
- xvi. For manhole applications, the minimum thickness of shall be a ½-inch cover over all surfaces.
- xvii. If the material has been applied and furnished in accordance to the specifications and it has been determined that the environment is not moist enough for natural curing, the contractor will be required to apply a curing compound to all coated surfaces. Curing compound shall meet the requirements of ASTM C309 and have the approval of the lining material Manufacturer and the Owner prior to use.
- xviii. Moist curing may also be used in lieu of curing compound. If moist curing is selected, it should be implemented just after the notice of uniform heat generation of the installed lining. Moist curing can consist of the use of soaker hoses, water sprinklers or vapor/misting machines. Regardless of delivery method, moist curing should continue for a minimum of 18 hours.

D. Cured-In-Place Liner

1) Liner

- i. Provide a liner system consisting of one or more layers of absorbent textile material and epoxy resin meeting the manufacturer’s specifications and the following requirements:

Property	ASTM Test Method	Acceptable Value
Compressive strength	D 695	1,500 psi (minimum)
Hardness	D 2240, Shore D	70 (minimum)

- ii. Liner to be manufactured into a single section and includes a non-porous membrane or an impermeable coating to prevent infiltration.
- iii. Provide stretchable manhole liner material that conforms to the shape of the manhole or non-stretchable manhole liner custom fabricated to match the inside dimensions of the manhole.

iv. Provide liner that is uniform in thickness.

2) Liner Thickness

- i. Provide thickness design calculations certified by a licensed Professional Engineer using the following criteria:
 - a. The existing structure will continue to carry soil and live loads.
 - b. Water table at the ground surface level.
 - c. Factor of safety of 2.0

3) Resin

Provide thermo-set resin meeting the manufacturer's specifications appropriate for the application.

4) Equipment

Provide all equipment required to clean the structure, impregnate resin into the liner, pressurize the inflation diaphragm and heat the lining material, if required, to meet the specifications of the liner manufacturer.

5) Manhole Preparation

Prepare each manhole for lining according to the liner manufacturer's published specifications and the following requirements per specifications above.

6) Manhole Liner Installation

- i. Cut liner to length from the top of the casting to a point 3 inches above the manhole bench.
- ii. Saturate liner with resin at job site according to manufacturer's published specifications. Fill all voids in the liner material. Provide 5% to 7% excess resin for migration into manhole joints and cracks during installation.
- iii. Position saturated liner in manhole and apply pressure with inflation diaphragm according to manufacturer's specifications.

- iv. Cure liner according to manufacturer's recommendations. Maintain constant pressure with air or water throughout the curing process.
- v. After curing with steam, ambient or heated water or ambient or heated air, remove the inflation diaphragm, re-open all lines and trim the excess liner off at the manhole cover seat.
- vi. Clean and neatly cut all pipe openings. Buff the opening with a wire brush to remove rough edges and provide a smooth finish. Ensure the bottom of the opening is flush with the bottom of the pipe to remove any lip that will catch debris. Inlet and outlet lines must be reopened within one hour from the time the curing process is completed.

7) Manhole Bench Liner Installation

- i. Provide liner materials saturated with resin in the same manner as the manhole liner extending from the top of the invert pipe to the bottom of the manhole liner.
- ii. Install in the same manner as the liner according to the manufacturer's recommendations.

8) Quality Assurance

Ensure the finished liner is continuous over the entire surface and free from visual defects of wrinkles, bulges, tears, crazing, foreign inclusions, dry spots, delamination, and pinholes. Ensure the liner is adequately bonded to the manhole surface and is watertight from the ring to the invert.

10.0 SEWER MAIN REHABILITATION PRODUCTS

A. Cured-In-Place Pipe Liner (CIPP)

1) Intent

- i. It is the intention of this specification to provide for the trenchless restoration of sanitary sewer pipes by the installation of a cured-in-place jointless, continuous, thermosetting resin impregnated polyester flexible felt liner which is watertight and chemically resistant to withstand exposure to raw wastewater including all labor, materials and equipment to provide for a complete, fully restored and functioning installation.

2) Product and Contractor Acceptability

- i. The Contractor has to have a proven extensive track record for the liner system to be used in this project. All contractors submitting for

prequalification approval for this project must exhibit extensive satisfactory experience in the installation of the proposed liner system(s) and satisfactory evidence that the proposed liner system has been extensively and successfully installed in the United States and the State of North Carolina.

- ii. The installer must be certified by the liner system manufacturer for installation of the liner system.
- iii. The Owner reserves full and complete authority to approve the satisfactory nature of the both the liner system and the installer.

3) Materials

- i. The liner shall be polyester fiber felt tubing saturated with a resin prior to insertion. Resin type and qualities shall be as specified by the manufacturer to obtain a cured liner with the following properties:

Tensile Strength	ASTM D638	3,000 psi
Flexural Strength	ASTM D790	4,500 psi
Flexural Modulus of Elasticity	ASTM D790	300,000 psi
Long Term Modulus of Elasticity (50 Years)	ASTM D2290	150,000 psi

- ii. Liner shall meet strengths as shown in ASTM F1216.
- iii. Lining manufacturer shall submit to the Owner for approval as requested, complete design calculations for the liner thickness. The criteria for liner design shall be HS-20 traffic loading, water table to the ground surface, minimum expected lifetime of 50 years, and no structural strength retained from the existing pipe.
- iv. Liner materials shall meet manufactures specifications of Insituform of North America, Inc., 3315 Democrat Road, Post Office Box 181071, Memphis, Tennessee 38118; or InLiner USA 1900 N.W. 44th St., Pompano Beach Florida 33064, 305-979-0802, or an approved equal. Any approved equal liner system must be approved by the Owner as an equal system prior to receiving bids.
- v. Request for contractor prequalification and/or equal liner system approval must be received by the Owner no later than fourteen (14) days prior to the date for receiving bids.

4) Cleaning and Surface Preparation

- i. It shall be the responsibility of the Contractor to clean and prepare the existing pipes for rehabilitation. The Contractor will thoroughly clean the interior of the sewers pipes to produce a clean interior surface free of all coatings, sand, rock, roots, sludge or other deleterious materials prior to liner insertion.
- ii. Bypass pumping will be provided by the Contractor as part of the unit cost. Bypass operations are to be so arranged as to cause minimum disruptions to local traffic, residents and particularly to commercial facilities.
- iii. During the cleaning and preparation operations, all necessary precautions shall be taken to protect the public, all property and the sewer from damage.
- iv. All material removed from the sewers shall be the Contractor's responsibility for prompt disposal in accordance with all regulatory agency requirements.
- v. The Contractor may be required to control the rate of sewer cleaning in the sanitary system to avoid heavy pollution loads at the treatment plant.

5) Television Inspection

- i. After cleaning, and again after the rehabilitation work on each section of the project is completed, all pipe sections shall be visually inspected by means of closed-circuit color television and recorded on DVD.
- ii. The television system used shall be designed for the purpose and suitably lighted to provide a clear picture of the entire periphery of the pipe.

6) Liner Installation

- i. Liner shall be sized to field measurements obtained by the Contractor to provide for a tight fit on the interior of the existing pipe to be lined. Contractor shall use installation methods approved by the liner manufacturer including operations for inversion, heat curing and reconnection of laterals.
- ii. The Contractor shall immediately notify the Owner of any construction delays taking place during the insertion operation. Contractor shall maintain a reasonable backup system for bypass pumping should delays or problems with sewer system develop. Liner entries at manholes shall be smooth, free of irregularities and watertight. No pinholes, tears, cracks, thin spots, excessive wrinkling or other defects in the liner shall be

permitted. Such defects shall be removed and replaced by the Contractor at his expense.

7) Connections (Laterals and Manholes)

- i. Reinstall and reconnect service laterals unless connection is deemed to be abandoned. Reconnection will include all service laterals shown on the drawings and all service laterals found during the pre-installation television inspection completed by the Contractor. Reconnections shall be made with television camera and cutting device from inside the CIPP without excavation and shall reestablish a minimum of 95% of the existing clear opening. The liner shall be sufficiently tight that there is no annular space between connections and the liner.
- ii. A top-hat style lateral seal, or an approved equal, shall be installed to repair and seal the service lateral connection. Lateral seals are short connection liners that are shaped to seal the connection of the lateral with the mainline. The lateral seal shall create a brim of three (3) inches around the lateral connection in the mainline and extend a minimum of six (6) inches into the service lateral. These liners are installed remotely through the mainline.

Company	Cosmic Tophat LLC
Product/System Name	TopHat®
Web Site	www.swpipeline.com
Installation	Remote Inversion
Product Cure	UV-light cure
Lateral, Pipe Type	Any
Lateral Diameter, Minimum	3 inches
Lateral Diameter, Maximum	10 inches
Repair in Lateral, Maximum	18 inches
Mainline Diameter, Minimum	6 inches
Mainline Diameter, Maximum	21 inches
Repair in Mainline	3 inch brim
Lateral Protruding, Maximum	< 1/4 inches
Active Leaks (Heavy)	No
Lateral Cleaning	Yes
Cleanout (1 or more)	Yes
Pit(s) Excavation	No
Entering Private Property	No
Lateral Plugging	No
Mainline Plugging	No
Structural Repair	Yes

- i. Sanitary services shall not be out of service for more than twelve (12) hours during the lining process. Contractor shall make personal contact with any home or business which cannot be reconnected within the time stated in the written notice.
- ii. Connections to manholes shall be sealed with a watertight seal of a resin epoxy mixture compatible with the cured-in-place pipe.

11.0 EXECUTION

- A. All cured-in-place lining products shall comply with applicable ASTM standards. Owner shall review product data information for compliance. For direct inversion installations, the CIPP shall be installed in accordance with the practices given in ASTM F1216.
- B. The owner shall provide free access to a source of water.
- C. Where work is performed along roadways or in any manner has an impact on traffic, the contractor shall furnish appropriate barricades, cones, signage and/or flagmen necessary to protect the public and the work. When used during periods of darkness, such equipment/devices shall be suitably illuminated. Payment shall be made in the contract unit price for rehabilitation work.
- D. The Contractor shall be responsible for diverting/bypassing the flow of the existing services, when and where required, so as to divert wastewater flows for the cleaning, television inspection, point repairs, obstruction removals, or other related work in this project as required to complete the work. The Contractor shall be responsible for continuity of sanitary sewer service to each facility connected to the section of sewer during the execution of the work. If sewage backup occurs and enters buildings, the Contractor shall be responsible for cleanup, repair, property damage cost and claims.
- E. It is the responsibility of the Contractor to clear the sewer lines of all debris, roots, and other materials that would block proper installation of the cured-in-place pipe. Debris removed from the sewers during cleaning shall be collected and disposed of onsite at the direction of the Owner.
- F. If pre-installation inspection reveals an obstruction such as a collapse or dropped joint, that was unknown to the Owner and will prevent the installation process, the Contractor shall immediately notify the Owner so that an agreed upon resolution can be expedited. Any such item shall be considered as a separate pay item.

12.0 QUALITY ASSURANCE

- A. The Contractor shall prepare a restrained sample for each CIPP installed section. For this project there will be three (3) samples. Restrained samples shall be made using forms having a similar inside diameter to that of the existing pipe. The sample shall be taken

from the receiving manhole. The form must be maintained in a reasonably horizontal orientation using a proper heat sink. The length of the sample shall be a minimum of six (6) inches and shall be turned over to the Owner for inspection.

- B. The Contractor shall monitor and record the cure cycle temperatures and provide the Owner a copy of the data.
- C. A recorded video inspection shall be conducted after final installation to identify defects such as annular gaps, interior bulges, ribs, ripples, folds or other irregularities. This post-installation video shall be performed with no flow through the pipe so that a full, unobstructed view of the new liner can be obtained. The Contractor shall review the video with the Owner and shall provide the Owner with a copy of the video in DVD format and a suitable written log for each line section. Any pipe sections that have defects that affect the integrity, functionality and longevity of the system will be deemed unacceptable and shall be replaced at no additional cost to the owner.

13.0 FINAL ACCEPTANCE

- A. Final Inspection by Owner, in coordination with Contractor, and Final Punch List items shall be completed before final acceptance.
- B. All sampling, testing and post-installation documentation to be provided to Owner in the requested format as required in these specifications are to be completed before final acceptance.
- C. The Contractor shall perform a detailed CCTV inspection in accordance with ASTM standards in the presence of the Owner after installation of the CIPP liner. Unedited digital documentation of the inspection shall be provided to the Owner within ten (10) working days of the liner installation. The data shall note the inspection date, location of all reconnected laterals, debris, as well as any defects in the liner. This documentation and any required corrections shall be completed before final acceptance.

14.0 WARRANTY

- A. The materials used for this project shall be certified by the manufacturer for the specific purpose. The Contractor shall warrant the liner material and installation for a period of two (2) years minimum or as specified in this specification. During the warranty period, any defect which may materially affect the integrity, strength, function and/or operation of the pipe, shall be repaired at the Contractor's expense.
- B. On any work completed by the contractor that is defective and/or has been repaired, the Contractor shall warrant this work for five (5) year in addition to the warranty required by the contract.

15.0 REFERENCED DOCUMENTS

ASTM F1216 – Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube.

ASTM F1743 – Standard Practice for the Rehabilitation of Existing Pipelines and Conduits by the Pulled-in-Place Installation of Cured-in-Place Thermosetting Resin Pipe (CIPP).

ASTM D5813 – Standard Specification for Cured-in-Place Thermosetting Resin Sewer Pipe.

ASTM D790 – Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Material.

ASTM D2990 – Test Methods for Tensile, Compressive, and Flexural Creep and Creep-Rupture of Plastics.

ASTM C109 – Test Method for Compressive Strength of Hydraulic Cement Mortars.

**PINEHURST LAKE SANITARY SEWER REHABILITATION PROJECT
TO SERVE
MOORE COUNTY PUBLIC WORKS DEPRATMENT**

BID FORM

This Bid consist of equipment, labor, materials, and traffic control for the Pinehurst Lake Sanitary Sewer Rehabilitation Project. Use this form for submitting Bids. No alterations, changes in Bid format will be allowed. All items should be priced for the units and quantities specified. The County of Moore shall reserve the right to reject any or all Bids. Opening will not be public.

INSPECTION BID FORM				
ITEM	QUANTITY	UNIT	PRICE/UNIT	TOTALS
4' Diameter Manhole MH 10-3-1 Rehabilitation	17	VF		
4' Diameter Manhole MH 10-3-2 Rehabilitation	14	VF		
4' Diameter Manhole MH 10-3-3 Rehabilitation	15	VF		
4' Diameter Manhole MH 10-3-4 Rehabilitation	15	VF		
4' Diameter Manhole MH 10-3-5 Rehabilitation	13	VF		
4' Diameter Manhole MH 10-3-6 Rehabilitation	12	VF		
4' Diameter Manhole MH 10-3-7 Rehabilitation	12	VF		
4' Diameter Manhole MH 10-3-8 Rehabilitation	11	VF		
4' Diameter Manhole MH 10-3-9 Rehabilitation	11	VF		
4' Diameter Manhole MH 10-3-21 Rehabilitation	11	VF		
4' Diameter Manhole MH 13-2-14 Rehabilitation	12	VF		
4' Diameter Manhole MH 13-2-39 Rehabilitation	9	VF		
4' Diameter Manhole MH 13-1-94 Rehabilitation	9	VF		
Sewer Main 8" VCP Rehabilitation	810	LF		
TOTAL PROJECT COST				

Responsive Bid must include the following documents:

- 1. Signed Bid Form**
- 2. Notarized Non-Collusion Affidavit**
- 3. Notarized E-verify Affidavit**
- 4. Current W-9 Form**
- 5. Vendor Application (including references, equipment list and resumes)**
- 6. Copy of required Certification and/or License**
- 7. Proof of Insurance**

Sealed bids are due by 4:30 PM Thursday April 14, 2016 to Terra Vuncannon at 206 S. Ray Street Carthage, NC 28327

On behalf of _____ (Bidder), I am submitting a bid for the Pinehurst Lake Sanitary Sewer Rehabilitation Project. This Bid covers equipment, labor, materials, traffic control and all other incidentals to complete the project. I certify that the contents of this Bid are known to no one outside the undersigned, and to the best of my knowledge all requirements have been complied with.

By: _____ (Printed)

By: _____ (Signature)

Date: _____

Receipt of the following addendum is acknowledged:

Addendum No. _____ Received: (circle) YES / NO Date: _____

Addendum No. _____ Received: (circle) YES / NO Date: _____

Addendum No. _____ Received: (circle) YES / NO Date: _____

NON-COLLUSION AFFIDAVIT

State of North Carolina
County of Moore

I _____, being first duly sworn, deposes and says that:

He/She is the _____ of _____, the proposer that has submitted the attached proposal;

He/She is fully informed respecting the preparation and contents of the attached proposal and of all pertinent circumstances respecting such proposal;

Such proposal is genuine and is not a collusive or sham proposal;

Neither the said Proposer nor any of its officers, partners, owners, agents, representatives, Employees or parties of interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Proposer, firm or person to submit a collusive or sham proposal in connections with the contract for which the attached proposal has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Proposer, firm or person to fix the price or prices in the attached proposal or of any other Proposer or to fix overhead, profit or cost element of the proposal price of any other Proposer or to secure through collusion, conspiracy, connivance or unlawful agreement any advantage against the County of Moore or any person interested in the proposed contract; and

The price or prices quoted in the attached bid are fair, proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Signature and Title

State of North Carolina
County of _____
Subscribed and sworn before me,
This ____ day of _____, 2016

Notary Public
My commission expires _____

Moore County E-Verify Affidavit

STATE OF NORTH CAROLINA

AFFIDAVIT

COUNTY OF MOORE

I, _____ (the individual attesting below), being duly authorized by and on behalf of _____ (the entity bidding on project hereinafter "Employer") after first being duly sworn hereby swears or affirms as follows:

- 1. Employer understands that E-Verify is the federal E-Verify program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with NCGS §64-25(5).
- 2. Employer understands that Employers Must Use E-Verify. Each employer, after hiring an employee to work in the United States, shall verify the work authorization of the employee through E-Verify in accordance with NCGS§64-26(a).
- 3. Employer is a person, business entity, or other organization that transacts business in this State and that employs 25 or more employees in this State. (mark Yes or No)
 - a. YES _____, or
 - b. NO _____
- 4. Employer's subcontractors comply with E-Verify, and if Employer is the winning bidder on this project Employer will ensure compliance with E-Verify by any subcontractors subsequently hired by Employer.

Executed, this ____ day of _____, 2016.

Signature of Affiant
Print or Type Name: _____

State of North Carolina
County of _____

Signed and sworn to (or affirmed) before me, this the ____
day of _____, 2016.

My Commission Expires:

Notary Public

(Affix Official/Notarial Seal)



Vendor Application

County of Moore
 Financial Services – Purchasing Division
 PO Box 905
 Carthage, NC 28327
 Phone: (910) 947 - 7118
 Fax: (910) 947 - 6311

Please Type or Print Legibly

Federal ID # _____ SS # _____ Vendor

Vendor Name _____

Date _____

ORDER ADDRESS		PAY ADDRESS	
Street		Street	
Street		Post Office Box	
City		City	
State	Zip Code	State	Zip Code

CONTACT PERSON	TELEPHONE NUMBER	FAX NUMBER
----------------	------------------	------------

YEAR ESTABLISHED	TERMS	DISCOUNT
------------------	-------	----------

CONTRACTOR'S LICENSE # (if applicable)	SIGNATURE
	EMAIL ADDRESS:

This firm certifies that it is a: (if applicable)

- Disabled Enterprise
 Minority Business Enterprise
 Women Business Enterprise

To qualify for MWBE status, 51% of the company must be owned and controlled by minority groups or women. For the purpose of this definition, minority group members are Black Americans, Hispanic Americans, American Indians and/or American Women. To qualify for Disabled status, 51% of the company must be owned and controlled by disabled persons.

Product(s) and/or Service(s)

Please list the type product(s) and/or Service(s) that your company can provide.

**PINEHURST LAKE SANITARY SEWER REHABILITATION PROJECT
TO SERVE
MOORE COUNTY PUBLIC WORKS DEPRATMENT**

REFERENCES, EQUIPMENT AND RESUMES

Please attach references, available equipment list and resumes

**Request for Taxpayer
Identification Number and Certification**

**Give Form to the
requester. Do not
send to the IRS.**

Print or type See Specific Instructions on page 2.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.	
	2 Business name/disregarded entity name, if different from above	
	3 Check appropriate box for federal tax classification; check only one of the following seven boxes: <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. <input type="checkbox"/> Other (see instructions) ▶ _____	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small>
	5 Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
	6 City, state, and ZIP code	
	7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I Instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Social security number									
				-					
or									
Employer identification number									
				-					

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here	Signature of U.S. person ▶	Date ▶

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/w9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

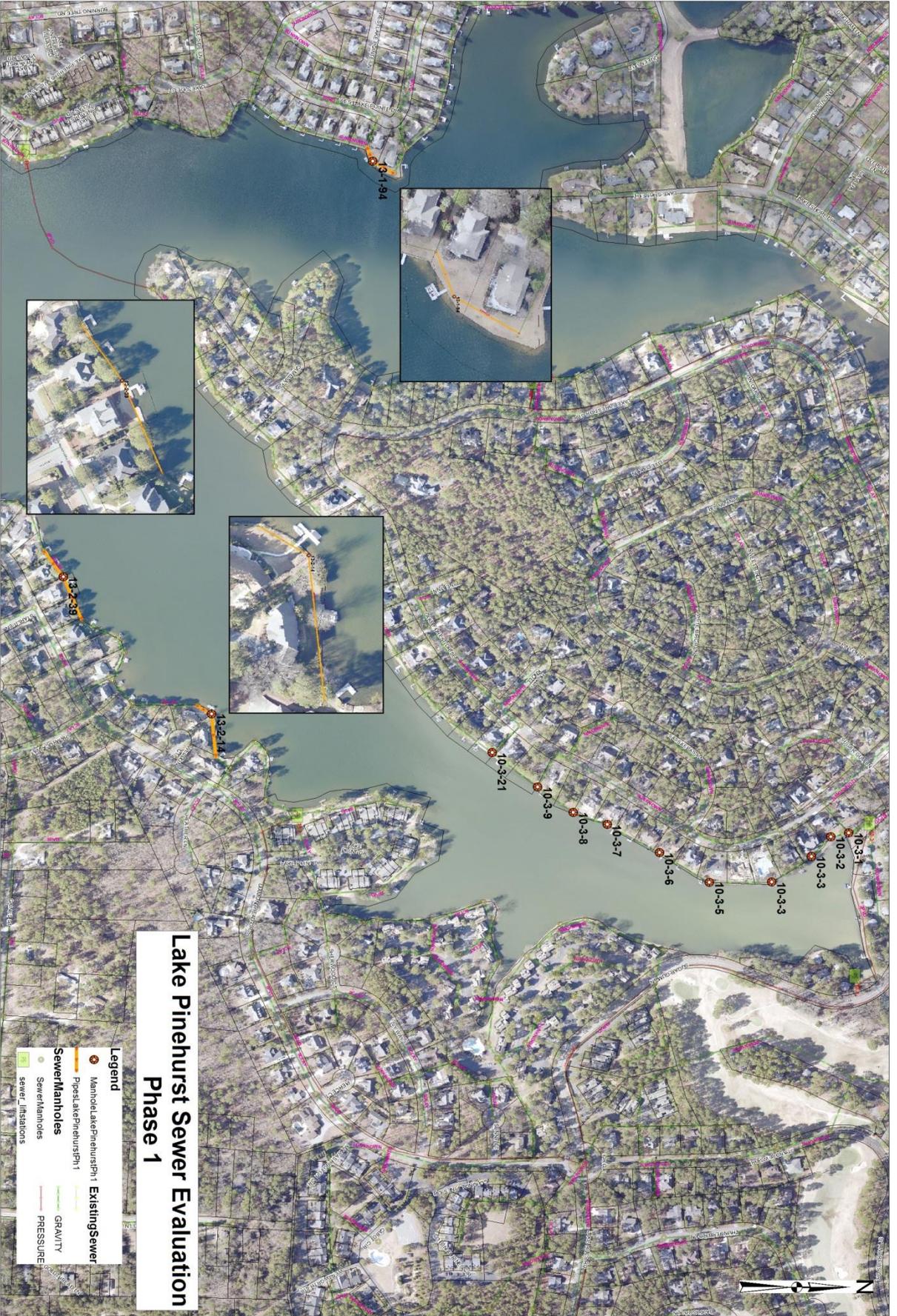
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding?* on page 2.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued).
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.



Lake Pinehurst Sewer Evaluation Phase 1

- Legend**
- Manhole/Lake/Pinehurst/P1
 - Pipe/Lake/Pinehurst/P1
 - Sewer/Manholes
 - Sewer/Installations
 - Existing Sewer
 - GRAVITY
 - PRESSURE