

ITB 23-23, Exhibit B - Scope of Services

SCOPE OF SERVICES.

A. Service Requirements:

1. The work to be performed under this contract includes the furnishing of all labor, incidental materials, equipment, and administrative paperwork, necessary to satisfactorily complete. Payment for the work will be made at the unit price or lump sum payment for the items of work as set forth in the Bid, which payment will constitute full compensation for all labor, equipment, and materials required to complete the work. Please note primary materials including pipe, fittings, tees, meters, valves, etc. will be provided by CGS. No separate payment will be made for the following items and the cost of such work shall be included in the applicable pay items of work unless otherwise specified:

- Clearing and grubbing
- Shoring
- Structural fill
- Backfilling
- Grading
- Pressure testing
- Silt fence (if required)

2. Installation of natural gas distribution mains and service lines will include but not be limited to:

- Meter installations
- Installation of excess flow valves or valves on service lines
- Trenching/Excavation
- Pressure testing
- Pigging/cleaning
- Nitrogen purging new and decommissioned pipe
- Grout filling abandoned pipe
- Offsets/bypass (maintenance of gas flow)
- Final gassing
- Right of Way (ROW) restoration
- Daily work logs
- Daily Equipment and Maintenance documentation forms for heat fusion equipment
- As-built drawings of all work installed
- Pressure test charts
- Directional drilling bore logs
- All meter/customer piping connections
- Applicable turn-on and meter set paperwork
- Pressure testing of customer's piping with documentation and establishment / reestablishment of gas service
- All gas joining equipment to be used, including nitrogen gas purging, shall be certified by CGS to be in good working condition
- All necessary construction activities, including preliminary site utility survey, Sunshine 811 locate tickets & customer notifications, standard construction warning signs and cones shall be in accordance with Florida Department of Transportation (FDOT) Temporary Traffic Control (TTC) standards, verification of utility locations, pipe installation, fittings, valves, air test fittings, trenching, backfilling, silt fencing, live tie-in connections (bypass(es), and purging to provide a complete main or service line installation ready for the transportation of natural gas according to CGS's Construction Manual.

3. Gas Main and Service line installation may include but not limited the following materials:

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- Various piping sizes for polyethylene (PE) and steel
 - PE tapping tees, 3-way tees, weld tees, or smaller tapping tees, stop-cocks, risers
 - Offsets/Bypass (maintenance of gas flow)
 - Gas meters, regulators excess flow valves, valve boxes, valve box concrete rings
 - Fittings, tracer wire, test stations, line markers, poles, barricades, bumper poles
 - TTC signage-maintenance required per FDOT specifications for traffic control
4. Installation unit pricing will be the same for new construction (i.e., jobs that have no sod, sidewalks, restoration, homeowners, utilities, etc) and existing construction (i.e., currently lived in homes with established sod, sidewalks, driveways, utilities, parking, etc.). CGS will make every reasonable effort to group the workload as to maximize contractor's mobilization efficiencies but cannot guarantee this practice will always be possible.
5. All workmanship shall be fully guaranteed for a period of one (1) year after date of acceptance by the City. All testing, Professional Surveying, and job stake outs including placement elevations shall be paid by the Contractor.
6. All ditch lines and bell holes must be machine compacted to approved density. Required environmental protection, such as the installation of silt fencing adjacent to wetlands, retention ponds, roadways, and placement of straw bales or similar approved devices at storm infrastructure inlets shall be the responsibility of the Contractor(s).
7. In the event it becomes necessary to continue work beyond the normal hours of operation (7:00AM – 5:00PM), the Contractor(s) shall obtain written approval from CGS, a minimum of two (2) working days in advance, except for an emergency condition when notification is required as soon as possible. The contractor agrees to pay CGS inspection after-hours expenses, prior to CGS releasing the project for service and authorizing payment for completed work.

B. PE- Underground Exterior House Piping:

The work to be performed shall include piping from outlet side of meter set to the exterior appliances or house piping stub. Work shall include, but not be limited to, risers on each end, stop-cocks, valves and miscellaneous fittings. Must be noted as House Piping on all invoices. Air test at 15 pounds per square inch (PSI) for 24 hours required for final approval and tagged with pressure, date and time. Work shall be performed by a licensed Plumber or LP/ Natural Gas contractor qualified in this discipline. Contractor is responsible for all code deficiencies and must furnish payment for code violations, such as loss of pressure test, improper depth, no tracer wire, etc. Underground house piping installation also includes the placement and installation of temporary sight, (4" polyethylene (PE)) tubes every ten (10) feet along alignment and at any change of direction for inspectional purposes.

C. Above Ground Exterior House Piping Meter Connect:

The work to be performed includes the contractor furnishing all necessary labor, tools, equipment, incidental materials, supplies, electric power, and essential customer communication and other operations necessary for the modification of existing natural gas house plumbing to accommodate relocation of gas meters. In addition, services shall include, but not be limited to: obtaining required permits if applicable; installation of new house gas pipes by threading pipe, measuring/ fitting and assembling pipe and fittings, new shut off valves, gas meters and regulators, connecting customer piping from a new location and subsequent integrity pressure testing (drop test utilizing a manometer) of the entire consumer-owned gas plumbing system and passing required inspections. The requirement also extends to completing and submitting the required gas service account, meter card and integrity testing paperwork timely.

CGS will require the reestablishing of the gas service and relighting the applicable appliances that

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pass the integrity pressure test. Contractor(s) shall immediately notify CGS dispatcher of the "on gas" and complete the required paperwork, including the drop test form, and submit, no later than the following business day. The Contractor(s) shall also notify gas dispatch (727-462-6633) immediately of any gas account that does not pass the integrity test or where access to premise is unavailable. In such cases, the Contractor(s) will provide afterhours turn on service. The work shall be complete and performed in strict accordance with the Technical and Detailed Specifications (reference Exhibit C - Technical Specifications), and in compliance with all applicable codes, CGS requirements, Florida Fuel Gas Code and industry standards. All work, materials, and services not expressly shown or called for in the Contract Documents, which may be necessary for the complete and proper construction of the work in good faith, shall be performed, furnished, and installed by the Contractor as though originally specified or shown, at no increase in cost to CGS. Gas pipefitters and plumbers shall be thoroughly trained and experienced in the skill set required and shall be completely familiar with the design and application of work described. All applicable plumbing and gas pipefitters licensing documents shall be provided to CGS upon request.

D. Resident, City & County Notifications Performed by Contractor:

The Contractor shall notify all residents along the construction route with a printed door hanger notice indicating the following information about the proposed construction and the Contractor performing the work: CGS logo (to be provided to Contractor); the scheduled start date; the type of construction; general sequence and scheduling of construction events; Contractor's name; Contractor's address; Contractor's phone number; and Managers' name. The door hanger shall be printed on brightly colored card stock and a minimum of 4 1/4" x 11" in size. A sample door hanger including proposed language shall be approved by CGS prior to the start of construction.

Notification (door hanger) shall be posted to residences and businesses directly affected by the Contractor's activities no later than two (2) days prior to start of construction. "Directly affected by Contractor's activities" shall mean all Contractor operations including staging areas, equipment and material storage, principal access routes across private property, etc. Contractor cannot start without proper two (2) day notice period to residents. Contractor is also required to maintain sufficient staff to answer resident inquiries during normal business hours and to maintain message recording equipment to receive resident inquiries after business hours. Contractor Manager and Supervisor emergency contact phone number shall be provided, maintained and answered 24 hours a day, 365 days a year; updates shall be provided as necessary to the CGS Dispatch and CGS inspector personnel.

Contractor will be responsible for notifying the appropriate point of contact(s) for the cities and/or counties of construction activities where the work is taking place.

E. Site Conditions:

Any information on site or soil conditions made available to the contractor through data collected by test borings and presented on the Engineer's drawings or available in preliminary reports prepared by the Engineer or obtained verbally from a representative of the Owner or the Engineer does not guarantee that such site or soil conditions will be as described and are made available only upon waiver of all responsibility of the Owner and Engineer. It is the Contractor's sole risk and responsibility to verify such information in order that he may complete the project as specified and shown on the contract documents. Under no condition will a variation in the information obtained by the Engineer on site or soil conditions, including underground soil or groundwater conditions at the job site, be accepted as a basis in any claim for extra compensation.

It is recommended that Contractor(s) review the proposed work area and become familiar with local conditions which may in any manner affect the work to be performed, or affect the equipment, materials, and labor required. The Contractor shall carefully evaluate the service area and the specifications, conditions, and requirements of this Invitation to Bid. No additional allowances shall be made because of lack of knowledge of any site conditions.

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F. **Estimated Quantities:**

CGS may increase, decrease or omit the estimated quantity of the work to be done under any item in the best interests of the project. The unit price as submitted in the proposal shall be the unit price which the Contractor will receive for any work specified to be done under that item. CGS may, at its discretion, assist or supply labor and equipment to complete a task when deemed necessary to maintain system integrity or public safety. In such events, no extra charges shall be incurred by CGS.

All work specified or implied in any way in drawings or specifications shall be done regardless of whether or not the work is specifically defined in any bid item.

The Contractor understands that the estimated quantities shown in Exhibit A – Bid Pricing by Group are only for the purpose of comparing bids and shall make no claims for loss of profits or anticipated profits due to differences between the said estimated quantities and the quantities of various classes of work actually furnished or performed, that the City shall not be held responsible if any of the said estimated quantities should vary by any amount from those actually measured during performance of the work.

G. **Bid Items- Installation costs for:** Reference Exhibit A_Bid Pricing by Group

Group 1: MAIN LINE – PLASTIC

- Diameter, 2 inch, 4 inch, 6 inch, and 8 inch; pricing per foot.

Group 2: MAIN LINES - STEEL

- Diameter, 2 inch, 4 inch, 6 inch, and 8 inch; pricing per foot.

Group 3: SERVICE LINES – PLASTIC (LUMP SUM) less than 50 FT per location)

- Diameter, 5/8 inch, ¾ inch, 1 inch, 2 inch, 4 inch; pricing per location

Group 4: SERVICE LINES – PLASTIC (LUMP SUM) 50-100 FT per location)

- Diameter, 5/8 inch, ¾ inch, 1 inch, 2 inch, 4 inch; pricing per location.

Group 5: SERVICE LINES – PLASTIC (UNIT PRICE) greater than 100 feet per foot)

- Diameter, 5/8 inch, ¾ inch, 1 inch, 2 inch, 4 inch; pricing per foot.

Group 6: CASING PUSH / MISSILE

- Diameter, 5/8 inch, ¾ inch, 1 inch, 2 inch; pricing per foot.

Group 7: JACK AND/OR BORE - STEEL

- Diameter, 4 inch, 6 inch, 8 inch; pricing per foot.

Boring includes insertion of the carrier pipe within the casing, restoration, cleanup, insulators, end seals, and vent poles. For all bores, payment will be for actual distance of the bore, not to include footage of entrance and exit pits and installation of tracer wire or carrier pipe.

Group 8: DIRECTIONAL BORE – PLASTIC

- Diameter, 5/8 inch, ¾ inch, 1 inch; 2 inch; 4 inch, 6 inch, 8 inch, 12 inch; pricing per foot.

Directional Boring installations shall not exceed four feet (4') in depth without CGS written approval.

The work of this section includes all labor, machinery, construction equipment and appliances required for installation of medium-density polyethylene (MDPE) pipe or high-density

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polyethylene (HDPE) pipe below the ground using directionally controlled horizontal drilling equipment and methods. All directional boring methods and equipment shall be approved by the Engineer and the city before any work shall be permitted. All directional boring and pipe installation methods shall be performed in a good workmanlike and safe manner.

Horizontal Directional Drilling (HDD) is a construction method consisting of drilling a small diameter pilot hole within the designed tolerances for radius requirements, followed by enlargement of the hole by back reaming to accommodate the utility pipeline.

The overall work scope shall include, but not be limited to steerable directional boring equipment, boring pits and equipment, sheeting, location signs as required, temporary traffic control, and miscellaneous appurtenances to complete the entire Work as shown on the Contract Drawings, and restoration. Directional boring operations shall be performed within the right-of-way and/or easements shown on the Drawings.

Group 9: STEEL-WELD, MECHANICAL & PE TAPPING TEES

- 5/8-inch Weld Punch Tees, ¾ inch Weld Punch Tees, 1 inch Weld Punch Tees, 2 inch Williamson; pricing per each.
- Mechanical or PE Fused Service Tee (saddle clamp, saddle tee, PE tee, and wrap around); pricing per each.

Welder shall be Operator Qualification (OQ) qualified; 3rd party nondestructive tested and CGS destructive tested and certified prior to welding on the Clearwater Gas System.

Group 10: SOD *Sod material provided by Contractor.*

- Bahia / Floratan; pricing per square foot, **including all related costs**
- Saint Augustine; pricing per square foot, **including all related costs**

Sod material will be supplied, placed, watered and maintained for three (3) weeks by Contractor and acceptable to the Right of Way authority. Replacement sod must match existing site conditions.

Group 11: TEMPORARY TRAFFIC CONTROL (TTC)

- Barricades or Signs; pricing per day
- Arrow Board; pricing per day
- Cones; pricing per day
- Class B High Density Dot Lights; pricing per day
- Light Plant; pricing per day
- Jersey Barricades; pricing per day

Group 12: METER AND REGULATOR INSTALLATION (includes connection to customer house- piping)

- Installing Residential & Light Commercial Meters (Meter Set Only); pricing per meter installation.
- Above Ground Exterior House Piping and Meter Connect (Includes meter set and connection to customer's piping system, safety inspection, drop test, relight of customer's appliances and permits where applicable), pricing per meter installation.

Group 13: SURFACE RESTORATION *Restoration material provided by Contractor.*

- Asphalt; pricing per cubic foot.
- Limerock; pricing per cubic foot.
- Concrete; pricing per cubic foot.
- Shell, pricing per cubic foot.
- Brick / Paver removal; pricing per square foot.
- Brick/ Paver replacement; pricing per square foot.
- Seed and mulch; pricing per square foot.

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- Flowable Fill; pricing per cubic foot.

Cut, remove, and/or replace.

Group 14: PIPE REMOVAL

- Diameter, 2 inch, 4 inch, and 6+ > inch; pricing per foot.

Group 15: PE – UNDERGROUND EXTERIOR HOUSE PIPING

- Diameter, 5/8 inch, ¾ inch, 1 inch, 1 ¼ inch, 2 inch, 4 inch, 6 inch; pricing per foot.
- PE Fused Service Type Tap Tees; pricing per each.
- 3-way PE Tees; pricing per each.

Group 16: OTHER PAY ITEMS

- As itemized on Exhibit A - Bid Pricing by Group

Group 17: LABOR

- Hourly and Overtime Rates