ITB | CONSTRUCTION OF ASPHALT CONCRETE WALKING TRAILS AT SALEM PARK AND FAIRINGTON PARK IN THE CITY OF STONECREST

CONTENTS

I. PURPOSE, BACKGROUND, AND DURATION

Purpose

The City of Stonecrest (City) is seeking qualified and experienced bidders to respond to a fixed (one-time) project for the construction of walking trails in Salem and Fairington Parks within the City of Stonecrest. Work shall be performed in accordance with the terms, conditions, and specifications contained herein.

The Contractor shall furnish all labor, materials, equipment, personnel, tools, supervision, transportation, machinery and other incidentals necessary to perform the work requested herein and typical of these types of projects.

A detailed Scope of Work is set forth in this ITB

Link to Department of Parks and Recreation website:

https://www.stonecrestga.gov/329/Parks-Facilities

Salem Park: 5290 Salem Rd, Stonecrest, GA 30038

Link to Google Maps: https://maps.app.goo.gl/6o1ayz3Vx1yTF7vo8

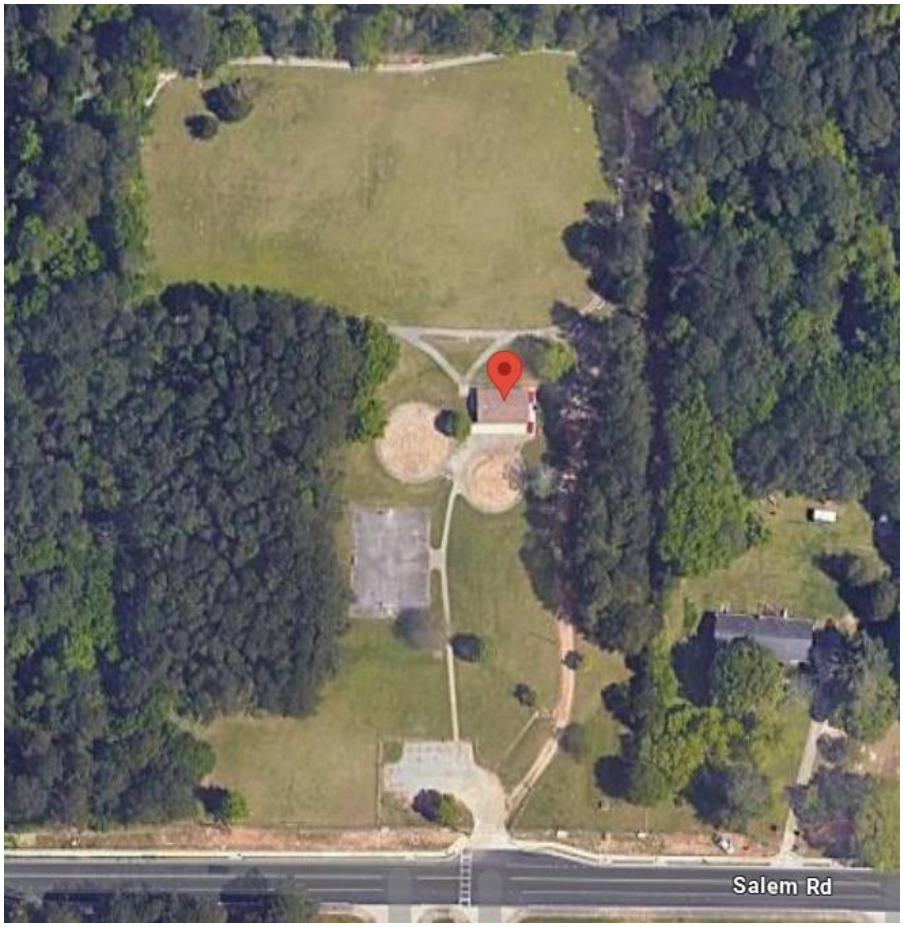

FIGURE 1 – AERIAL VIEW OF SALEM PARK

Fairington Park: 2831 Fairington Pkwy, Stonecrest, GA 30038

Link to Google Maps: https://maps.app.goo.gl/ptxgZUif7LeumHe19

FIGURE 2 – AERIAL VIEW OF FAIRINGTON PARK

Background

Background Stonecrest is a community of 60,000 people that was incorporated in 2017. The city is located along Interstate 20 roughly three miles east of I-285 ("The Perimeter") and 20 miles east of Downtown Atlanta. Stonecrest is in the southeastern portion of Dekalb County and is bordered by Rockdale County to the east, Henry County to the south, and the City of Lithonia and unincorporated Dekalb County to the north and west. I-20 separates the city into a northern area which includes residential neighborhoods, commercial development along Covington Highway, industrial parks that date to the 1960s and active quarries that predate incorporation by 130 years. South of I-20 features regional retail and lodging, suburban neighborhoods, and substantial outdoor recreation areas. Other notable assets in the City include Emory Hillandale Hospital, the South River, and a number of formerly County owned parks and recreation facilities.

Contract Duration

One hundred and thirty days (120) calendar to substantial completion
One hundred and fifty (150) calendar days to final completion

II. SCOPE OF WORK

The proposed alignments are shown below:

Salem Park

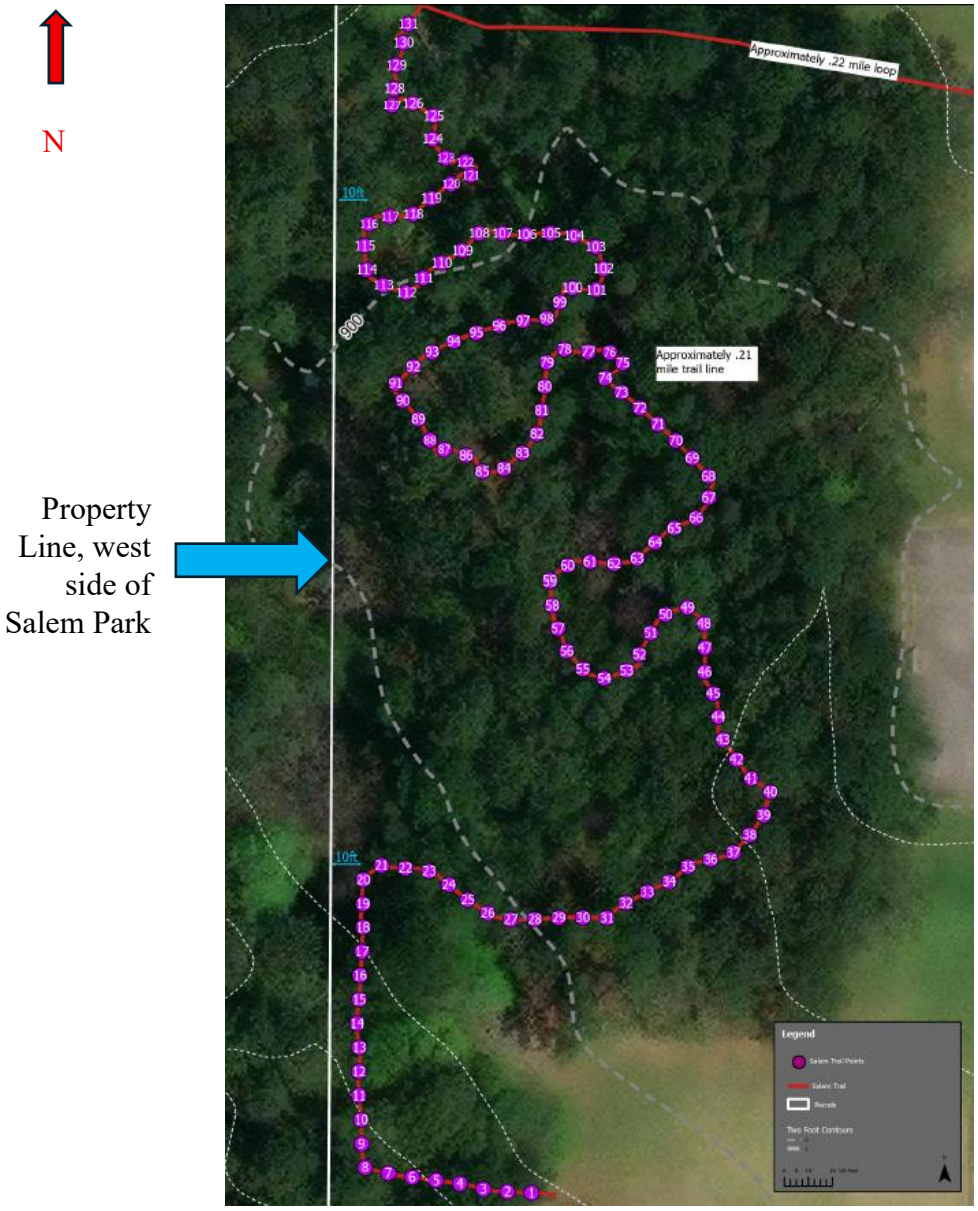

FIGURE 3 - SALEM PARK TRAIL ALIGNMENT ALONG WESTERN SIDE OF PARK, SEE ATTACHMENT B FOR LATITUDE AND LONGITUDE OF EACH POINT, APPROX. TRAIL LENGTH 1,040 FT.

FIGURE 4 - FAIRINGTON PARK TRAIL ALIGNMENT ALONG SOUTHERN SIDE OF PARK, SEE ATTACHMENT B FOR LOCATIONS OF EACH POINT, APPROX. LENGTH 820 ft. (FUTURE SOCCER FIED SHOWN AS GREEN RECTANGLE)

Contractor is required to provide all materials and labor as a turnkey product. Work includes the following items

1. Layout and staking of trail alignments
2. Installation of erosion controls
3. Construction:
    a. Clearing and grubbing
    b. Grading
    c. Subgrade preparation
    d. Asphalt work
    e. Drainage
    f. Signage
    g. Clean-up

Proponent is to review "A Guideline for the Design and Construction of HMA Pavements for Trails and Paths" for guidance. Document is available via link below

https://il-asphalt.org/files/2214/4594/9423/NAPA-IS129.pdf

Layout of trail alignments

Georgia registered land surveyor shall layout the proposed alignments in each park (see ATTACHMENT B). Proposed centerline shall be offset by approximately 10 ft from the true centerline to facilitate construction activities.

The survey will be performed in accordance with the Minimum Technical Standards of the State of Georgia. The topographic survey data collected will be referenced to the Georgia State Plane Coordinate System, West Zone (Horizontal Datum: NAD83 and Vertical Datum: NAVD88).

Specimen trees, where they occur within the proposed alignment shall be identified and preserved. Alignment shall be adjusted accordingly.

Compliance with tree preservation and replacement requirements of the Stonecrest Code (Sec. 14-520) - is required, see link below:

https://library.municode.com/ga/stonecrest/codes/code_of_ordinances?nodeId=COOR_CH14LADE_ARTVITRPR_S14-520TRPRRERE

Installation of erosion control measures

Erosion and sediment controls shall be used in accordance with the requirements in the State of Georgia. Successful bidder shall provide the City with an erosion and sediment control plan for the project. City engineer will review and accept prior to the start of any construction in the field.

Design and plan preparation

A formal engineering design will not be required. The proposed cross-section shall comply with the provisions of ATTACHMENT D. Trail width shall be 8 ft. with an asphalt concrete surface.

Contractor should be prepared to lay drainage pipes to address drainage related concerns affecting the alignment.

The final layout of the trails shall address the needs of pedestrians and individuals with disabilities.

An as-built set of plans, prepared by a land surveyor, currently registered in Georgia, is to be provided to the City of Stonecrest upon project completion.

Pedestrian Considerations

Pedestrians have a variety of characteristics and the transportation network should accommodate a variety of needs, abilities, and possible impairments. Age is one major factor that affects pedestrians' physical characteristics, walking speed, and environmental perception. Children have low eye height and walk at slower speeds than adults. They also perceive the environment

differently at various stages of their cognitive development. Older adults walk more slowly and may require assistive devices for walking stability, sight, and hearing.

People traveling in wheelchairs have specific needs. For example, maneuvering around a turn requires additional space for wheelchair devices. Providing adequate space for 180 degree turns (5 ft. min radius) at appropriate locations is an important element of accessible design.

Design Needs for people with Disabilities

The table below (Figure 5) summarizes common physical and cognitive impairments, how they affect personal mobility, and recommendations for improved pedestrian-friendly design. The trail design and layout shall comply with the requirements of the Americans with Disability Act (ADA) Note that this table is not inclusive of all ADA guidelines.

IMPAIRMENT	EFFECT ON MOBILITY	DESIGN SOLUTION
Physical Impairment Necessitating Wheelchair and Scooter Use	» Difficulty propelling over uneven or soft surfaces. » Cross-slopes cause wheelchairs to veer downhill or tip sideways. » Require wider path of travel.	» Firm, stable surfaces and structures, including ramps or beveled edges. » Cross-slopes of less than two percent. » Sufficient width and maneuvering space.
Physical Impairment Necessitating Walking Aid Use	» Difficulty negotiating steep grades and cross slopes; decreased stability and tripping hazard. » Slower walking speed and reduced endurance; reduced ability to react.	» Cross-slopes of less than two percent. Smooth, non-slippery travel surface. » Longer pedestrian signal cycles, shorter crossing distances, median refuges, and street furniture.
Hearing Impairment	» Less able to detect oncoming hazards at locations with limited sight lines (e.g. driveways, angled intersections, channelized right turn lanes) and complex intersections.	» Longer pedestrian signal cycles, clear sight distances, highly visible pedestrian signals and markings.
Vision Impairment	» Limited perception of path ahead and obstacles; reliance on memory; reliance on non-visual indicators (e.g. sound and texture).	» Accessible text (larger print and raised text), accessible pedestrian signals (APS), guide strips and detectable warning surfaces, safety barriers, and lighting.
Cognitive Impairment	» Varies greatly. Can affect ability to perceive, recognize, understand, interpret, and respond to information.	» Signs with pictures, universal symbols, and colors, rather than text.

FIGURE 5 – DESIGN NEEDS OF USERS WITH DISABILITIES

ADA compliant ramps will be required at the start and end of the trails. All slopes, and surfaces shall be compliant.

Paved trails should be constructed to match the existing topography as closely as possible, however, longitudinal grades should not exceed five percent, cross slopes should not exceed 2 percent.

Also, a pavement cross-slope of one percent is desirable to provide adequate drainage away from the pavement surface.

Successful bidder shall provide a narrative of how their proposed layout will comply with ADA requirements.

Permitting

It is not envisioned that permitting would be required for this project as the disturbed acreage is less than 1 acre.

Construction

Installation of erosion controls

Prior to the start of construction activities, contractor shall install erosion controls measures to ensure compliance with all Georgia requirements. An erosion and sediment control plan is to be prepared and submitted to the City Engineer for review and acceptance prior to the start of any construction activities in the field. Erosion controls shall be maintained for the entire duration of the project.

Clearing and Grubbing

Prior to construction, vegetation should be cleared and stumps and roots removed along the trail for a minimum of five feet outside the edge of the proposed asphaltic pavement. Remove and dispose of all trees, stumps, roots, and debris/trash to prepare the area for the proposed construction. Disposal of items shall be offsite and comply with all applicable codes and ordinances.

Please note the majority of trees have already been removed from the proposed alignments.

In cost proposal bidder is to provide a lump sum amount for the removal of trees along each alignment (assume a maximum of 10 trees per park).

Grading and Subgrade Preparation

The trail base and asphalt concrete should be placed on compacted sub-grade that extends a minimum of two feet beyond the edge of pavement on either side. The sub-grade should be prepared by removing topsoil and unstable soil, shaping to grade (maximum 2% to promote drainage), scarifying the surface to a minimum depth of six inches, moisture conditioning, and compacting. The sub-grade should be compacted to a minimum of 95% of standard Proctor density, AASHTO T 99, and the moisture should be maintained within 3% of optimum.

Prior to placement of the base course and asphalt pavement, it is recommended the sub-grade be proof rolled to highlight areas of uncompacted or unstable soil. Soft or unstable areas should be recompacted or removed and replaced with stable soil.

After compaction a soil sterilant and/or root inhibitor should be applied. Product to be used shall be approved in advance by City Engineer. Application should be carefully controlled to the pavement area only.

Base Course Installation

A 6-inch-thick graded aggregate base (GAB) layer consisting of a mix of crushed stone with varying particle sizes, from coarse to fine shall be placed on the prepared subgrade. GAB layer

shall comply with the requirements of the GDOT Section 815 Supplemental Specification (see ATTACHMENT E).

The base course shall be compacted to a minimum of ninety-five percent (95%) of the maximum density as determined by Standard Compaction (AASHTO T99, or AASTO T180) test as appropriate.

Asphalt work

Marshall Stability and Flow testing shall be used to demonstrate the quality of asphalt concrete used. Details of the proposed mix to be used and testing protocol shall be submitted to the City Engineer for approval. The table below is to be used as a guideline for the development of the mix design.

DESIGN CRITERIA	*SUPERPAVE METHOD*
COMPACTION	Design Gyrations = 50
STABILITY	N/A
FLOW	N/A
AIR VOIDS (%)	2 – 4
VOIDS IN MINERAL AGGREGATE (%)[2]	13 minimum for 1/2" nominal @ 3.0% Air Voids
TENSILE STRENGTH RATIO, %	75 minimum

Placement of hot mix asphalt should be accomplished with a self-propelled paver, where possible. Where pavers cannot be used, a spreader box attached to a dump truck may be used.

Compaction should be accomplished immediately after It is recommended the hot mix asphalt be compacted to 92-96 percent of the Theoretical Maximum Specific Gravity, AASHTO designation T 209.

Joint construction should be carefully done to ensure a uniform mat. Longitudinal joints, which occur where mats are laid side to side, should be constructed with a vertical face or a step taper.

The edge of pavement should be feathered with native soil to avoid any sharp drops from the trail edge.

Drainage

The surface of the asphaltic path shall be sloped to provide positive drainage.

City Engineer, or their site representative, shall determine exact locations for cross drains in the field. A maximum of 10 cross drain locations may be specified by the City engineer for each park alignment (Salem Park and Fairington Park).

Cross drains, where required, are to be constructed using N-12® Dual Wall Pipe with a smooth interior wall and corrugated exterior. Drain inlets and outlets are to have MITERED END SECTIONS 12-inches in diameter for use in culvert and drainage outlet applications.

Mitered End Section shall be high-density polyethylene conforming with the minimum requirements of cell classification 335400C as defined and described in ASTM D3350 except that carbon black content should not exceed 4%.

The 12- through 60-inch (300 to 1500mm) pipe material shall comply with the notched constant ligament-stress (NCLS) test as specified in Sections 9.5 and 5.1 of AASHTO M294 and ASTM F2306 respectively.

Installation shall be in accordance with ASTM D2321 manufacturer guidelines.

Signage

Contractor shall provide and install permanent signage to assist trail users. Signs shall be installed at the start and end of each trail. Details of the proposed signage and its cost shall be included in the cost proposal.

Trailhead signs shall be located centered at the back of a 30- by 48-inch (760- by 1,220-millimeter) minimum clear floor or ground space. The clear space shall not overlap the trail width but may overlap a resting space or passing space. The slope of the clear space shall not exceed 1:20 (5 percent) in any direction.

The signs shall include at minimum the following information:

- City of Stonecrest logo
- Length of the trail or trail segment
- Surface type
- Typical and minimum width
- Typical and maximum running slope
- Typical and maximum cross slope
- A statement indicating the date of construction

Please note:

- The approximate length of the path in Salem Park is 1,040 feet.
- The centerline of the proposed path in Salem Park is not to be closer than 10 ft to the property line on the western side of the park.
- The approximate length of the path in Fairington Park is 820 feet.

<u>Additional Items</u>

ARCGIS shape files of each alignment will be provided to the successful proponent if required.

<u>As-built drawing</u>

After completion of construction, the surveyor shall prepare an as-built drawing showing the details of trails. The edges of the trails shall be shown at 50 ft. intervals with appropriate

stationing shown. The position of drainage related infrastructure along the alignment shall be clearly shown. Data points shall be shown with associated coordinates per Georgia State Plane Coordinate System.

Construction testing

Contractor is to provide the City with a Quality Assurance/Quality Control plan to ensure all materials and construction methods required by this ITB are being met.

The City shall retain the services of a firm to test the materials and compaction on the trail elements.

In the event testing reveals substandard materials or construction the contractor shall take corrective action, at their expense, to the satisfaction of the City Engineer.

THE END

III. BID SCHEDULE

The cost proposal submitted shall include the following items separately for each alignment (Salem Park and Fairington Park)

1. Surveying cost (including layout and as-built preparation)
2. Placement, and ultimate removal of silt fence type C
3. Clearing and Grubbing
4. Tree removal (lump sum for up to 10 trees per alignment)
5. Grading and subgrade preparation
6. Base course
7. Asphalt Pavement
8. Miscellaneous (ADA ramps, gate)
9. City Engineer Field Adjustment Allowance

Note The cost of the installation of the new gate at Salem Park (see ATTACHMENT C, photo 3) shall be included in the Salem Park cost proposal.

SALEM PARK TRAIL

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	ITEM COST
1	Surveying cost (including layout and as-built preparation)	Lunp Sum	EA		
2	Placement and ultimate removal of silt fence type C around limits of disturbance	Linear Feet	2120		
3	Clearing and Grubbing	Square Yard	2311		
4	Tree removal and disposal (lump sum for up to 10 trees per alignment)	unit	10		
5	Grading and subgrade preparation	Square Yard	924		
6	Base course	Ton	279		
7	Asphalt Pavement	Square Yard	924		
8	Single leaf gate at Salem Park and ADA ramp (see photo 3)	EA	1		
9	ADA Ramp, beginning and end of trail	EA	2		
A) SUBTOTAL SALEM PARK TRAIL					

FAIRINGTON PARK TRAIL

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	ITEM COST
1	Surveying cost (including layout and as-built preparation)	Lunp Sum	EA		
2	Placement and ultimate removal of silt fence type C around limits of disturbance	Linear Feet	1680		
3	Clearing and Grubbing	Square Yard	1822		
4	Tree removal and disposal (lump sum for up to 10 trees per alignment)	unit	10		
5	Grading and subgrade preparation	Square Yard	729		
6	Base course	Ton	220		
7	Asphalt Pavement	Square Yard	729		
8	ADA ramp on Philip Bradley Drive	EA	1		
B) SUBTOTAL FAIRINGTON PARK TRAIL					

GRAND TOTAL	
A) TOTAL SALEM PARK TRAIL	
B) TOTAL FAIRINGTON PARK TRAIL	
C) CITY ENGINEER FIELD ADJUSTMENT ALLOWANCE	$10,000.00
GRAND TOTAL (ITEMS A + B+C)	

BIDDERS AUTHORIZED REPRESENTATIVE

SIGNATURE DATE

Authorized Representative

NAME:

TITLE:

TELEPHONE NUMBER:

EMAIL ADDRESS:

PLEASE NOTE: The City will determine which park trail is to be constructed first.

Bidders shall provide the following information on attached sheets; this information shall be submitted with the bid in the format specified. Provide the response to each section of the information, on a separate sheet of paper, preferably typewritten, and attached to the bid at the time it is submitted. Failure to provide the information requested in complete and accurate detail may result in rejection of the bid.

1) History and Organizational Structure of the Firm

Provide a cover letter introducing the company and including the corporate name, address and telephone number of the corporate headquarters and local office. **The name and phone number of one individual who will be the company's primary contact with the City of Stonecrest for contract negotiation and the name of the project manager.** A brief history of the company and the present organizational structure of the firm describing the management organization, permanent employees by discipline, and this project's coordination structure; if the firm is a partnership, indicate the name of all partners; if incorporated indicate where and when. If the Contractor has changed names or incorporation status within the last five (5) years, then please list all of such preceding organizations and a brief reason for the change. Contractor shall also provide a business license indicating that the Contractor can conduct business in Dekalb County, Georgia. Further, Contractor shall provide documentation showing that the Contractor is properly registered to conduct business in the State of Georgia. Contractor acknowledges and agrees that any business license and registration must remain current for the duration of the contract and such documents are material term to this agreement.

2) References

List as references (names, addresses, contact persons and toll-free phone numbers) a minimum of three (3) government municipalities or other clients of similar size and nature to City of Stonecrest for which a project comparable to the scope of this project was completed.

3) Subcontractors

Indicate the names and addresses and degree of utilization of any and all subcontractors which would be used in the performance of this contract.

4) Previous Default

Indicate if you or any predecessor organization have ever defaulted on a contract or denied a bid due to non-responsibility to perform. If so, provide the facts and circumstances. If your firm or any successor organization is now involved in any litigation or in the past ten (10) years have been involved in litigation with owners, please list the parties to the litigation, the civil action number and a brief explanation of the matter.

REFERENCES

Please provide as references the names of at least three (3) local corporate clients you have served for at least three (3) years.

1. Company Name: ___

   Contact Name & Title:_____Phone: _____

   Address: _____

   Email: _____

   Project Name: _____Contract Period: _____

2. Company Name: ___

   Contact Name & Title:_____Phone: _____

   Address: _____

   Email: _____

   Project Name: _____Contract Period: _____

3. Company Name: ___

   Contact Name & Title:_____Phone: _____

   Address: _____

   Email: _____

   Project Name: _____Contract Period: _____

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