

**AMENDMENT NO. 2
TO THE ARCHITECTURAL AND DESIGN SERVICES AGREEMENT
BETWEEN**

**THE CITY OF MIAMI BEACH, FLORIDA,
AND
CALVIN, GIORDANO & ASSOCIATES, INC.,**

**DATED
October 16, 2019**

**FOR THE ARCHITECTURAL AND DESIGN SERVICES
FOR NORTH SHORE OPEN SPACE PARK PROJECT**

This Amendment No. 2 to the Agreement made and entered this ____ day of ____ 2019, by and between the CITY OF MIAMI BEACH, a municipal corporation existing under the laws of the State of Florida, having its principal offices at 1700 Convention Center Drive, Miami Beach, Florida 33139 (hereinafter referred to as CITY), and Calvin, Giordano and Associates, Inc., having its offices at 1800 Eller Drive, Suite 600, Fort Lauderdale, Florida, 33316 (hereinafter referred to as CGA).

RECITALS

WHEREAS, on December 9, 2015, the Mayor and City Commission adopted Resolution No. 2015-29233, pursuant to Request for Proposals No. 2015-211-KB, authorizing the Mayor and City Clerk to negotiate an agreement with CGA, Inc. for architectural and design services for the North Beach Oceanside Park (f.k.a. North Shore Open Space Park); and

WHEREAS, on June 23, 2016, the Mayor and City Clerk executed an agreement pursuant to adopted Resolution No. 2015-29233, with, CGA for architectural and design services for the North Beach Oceanside Park in the amount of \$660,220; and

WHEREAS, On July 13th, 2016, at the recommendation of the Neighborhood/Community Affairs Committee, the City Commission discussed the potential location of a skate park and requested that the North Shore Open Space Park design team provide a conceptual plan for an all-wheels park at the following potential sites, within North Beach Oceanside Park, at the City's "West Lots," or at the 72nd Street parking lot; and

WHEREAS, on August 19, 2016, Amendment No. 1 was executed in the amount of \$49,330 and included CGA's July 14th, 2016 Additional Services Proposal for the preparation of design studies to be performed by CGA and its subs-consultant West 8, Inc. for the development for the three (3) conceptual plans; and

WHEREAS, during the design review process comments were received regarding the width of the pathways and in order to reduce the amount of impervious areas, the design team, as part of this Amendment No. 2, will revise the construction drawings to reduce the width of the main pathway; and

WHEREAS, as required by the permitting agency, a report prepared by an ISA certified arborist and or ASCA registered consulting arborist must be provided, documenting the condition and reason for removal or relocation of specimen trees; and

WHEREAS, CGA has been tasked with the preparation of renderings and graphics which will help to visualize park improvements; and

WHEREAS, CGA has provided proposals for the modification of the pathway widths, the preparation of a required Arborist Report and the preparation of select renderings, in a not to exceed amount of \$129,893; and

WHEREAS, Staff reviewed the proposals and found them to be commensurate with the additional scope and expected effort; and

WHEREAS, this Amendment No. 2 will increase the total contract amount to \$839,443; and

NOW, THEREFORE, the parties hereto, and in consideration of the mutual promises, covenants, agreements, terms, and conditions herein contained, and other good and valuable consideration, the respect and adequacy are hereby acknowledged, do agree as follows:

1. **ABOVE RECITALS**

The above recitals are true and correct and are incorporated as a part of this Amendment No. 2.

2. **MODIFICATIONS**

A. The Agreement is amended to incorporate Exhibit A – Additional Services Agreement.

3. **RATIFICATION**

The City and Consultant ratify the terms of the Agreement, as amended by this Amendment No. 2.

IN WITNESS WHEREOF, the parties hereto have caused this Amendment No. 2 to be executed in their names by their duly authorized officials as of the date first set forth above.

ATTEST:

CITY OF MIAMI BEACH, FLORIDA

City Clerk

Mayor

ATTEST:

CONSULTANT:

Calvin, Giordano and Associates, Inc

Secretary

President

Print Name

Print Name

Attachments:

Exhibit A – Additional Services Agreement



Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

Additional Services Agreement

DATE: August 9, 2019
RE: NBOP Atlantic Way Width Redesign Modifications
CLIENT: City of Miami Beach
1700 Convention Center Drive, CIP Office
Miami Beach, FL 33139
ATTENTION: Mr. David A. Gomez
CGA NO.: 15-7934.5

CGA HAS BEEN ADVISED TO PROCEED WITH THE FOLLOWING ADDITIONAL SERVICES:

Due to the client's request for work outside the original scope of services, Calvin, Giordano & Associates, Inc. will provide the following additional services:

As of the drafting of this proposal, the construction plans for the North Beach Oceanside Park have been 100% complete and are in the bidding phase. On June 24, 2019 CGA supported CIP Staff in presenting the project to the City's 'Ready Team'. At that meeting, the 'Ready Team' made requests for revisions to the design in anticipation for a presentation to the Commission's Sustainability and Resilience Committee meeting. CGA prepared graphic visualization modifications under a separate contract to solicit feedback, comments and final approval of the revisions from the Commission's SRC members. The design revisions were presented to the SRC on July 19, 2019. At that SRC meeting, the Committee approved the revisions identified and recommended by the 'Ready Team'. These revisions will have an impact on the plans that are already out to bid, as they will require revisions to the plans set that will have to be issued via an addendum to the bid. Even though the changes seem minimal and simple, it is important to note that the reduction of the walkway width will impact almost ALL plan sheets, as they will require the reconfiguration of the outline of the walkway, the relocation of the proposed vita-course stations to match the revised edge location, as well as the relocation of any abutting furnishings, lighting, planting and other improvements addressed in each of their respective plans as enumerated in this document. The following tasks are the efforts necessary to complete the requested revisions to the plans.

I. Professional Landscape Architecture Services

A. SCOPE TASKS AND WORKFLOW

1. Task 1 - Revisions to the proposed Site Plans

Building Code Services
Civil Engineering / Roadway
& Highway Design
Coastal Engineering
Code Compliance
Construction Engineering &
Inspection (CEI)
Construction Services
Data Technologies &
Development
Electrical Engineering
Engineering
Environmental Services
Facilities Management
Geographic Information
Systems (GIS)
Governmental Services
Landscape Architecture
Planning
Project Management
Redevelopment
& Urban Design
Surveying & Mapping
Traffic Engineering
Transportation Planning
Water / Utilities Engineering
Website Development

580 Village Boulevard
Suite 325
West Palm Beach, FL
33409
561.684.6161 phone
561.684.6360 fax

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- The site plans will be revised to reflect the new, narrower width for the Atlantic Way portion of the walkways. As agreed with City Staff and in an effort to address the width revisions requests of the 'Ready Team' and SRC, the revisions to the width of the walk will be originated from the westernmost edge of the proposed walkway geometries. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include SP-P101 through SP-P107.

2. Task 2 - Revisions to the proposed Site Material Plans

- At the request of the 'Ready Team' and SRC, a new material or texture revision will be introduced down the center of the overall width of the Atlantic Way pathway. This request was made by City Staff in an effort to introduce a material change to the walkway that would make it seem narrower. New areas for material assignment designation will need to be drafted and incorporated into the plans. It is the assumption of this proposal that the final choice of material or texture is at the discretion of the CGA Project Manager, and that approvals are not required by any other City Staff member or any other department. The 'Ready Team' confirmed that the modification will not have to be re-submitted to the Design Review Board. As such, this proposal assumes that the material changes do not require services related to DRB submittal, meeting attendances, or any other related effort. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include SP-200 and SP-P201 through SP-P207.

3. Impact on Existing Trees (Task 3 through Task 7): A preliminary analysis of the existing planting allows us to determine that several trees are positively impacted by the reduction in the width of the walkway. This could represent a reduction of up to 35 trees that were initially planned for relocation. As such, the following revisions will need to be made to reflect these changes:

- Task 3 – Revisions to the Tree & Palm Removal Schedules to reflect the change in "Action" assigned to each of the impacted trees. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include D-401 through D-415

- Task 4 – Revisions to the proposed Tree Preservation Plans and the symbols assigned to the tree changes. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include D-501 through D-507
 - Task 5 – Revisions to the Tree Receptor Index schedules to reflect the fact that the identified trees will not be relocated. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include D-701 through D-705
 - Task 6 – Revisions to the Tree Relocation Plan will need to be made to remove the identified trees' previously identified receptor locations. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include D-801 through D-807
 - Task 7 – Revisions to the Tree & Palm Receptor Plan will need to be made to remove all trees previously identified to be relocated to a new location. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include L-201 through L-207
4. Task 8 – Revisions to the Soils Suspension Plans
- Based on the results of the existing tree impacts revisions performed in Tasks 3 through 7, CGA will perform revisions to the Soils Suspension Plans to remove or add areas where soil suspension is recommended consistent with the requests from the Urban Forestry Department of the City of Miami Beach. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include SP-P301 through SP-P307.
5. Task 9 – Revisions to the Luminaire Plans

- CGA will modify the length and depiction of the proposed sleeves to be provided beneath the proposed walkways. CGA will need to revise the locations of up to 11 light poles. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include SP-P611 through SP-P617.

6. Task 10 – Revisions to the Photometrics Plans

- The shifting of the poles, even if slight, will impact the light distribution of the revised design. As such, once the revision to their locations are finalized as impacted by the change of the width of the pathway, a new photometric plan will have to be developed to ensure that an even spacing of lighting is achieved to address the safety concerns of the Police Department. The City is hereby notified that if additional new poles need to be included to prevent dark spots, this WILL require the submission of a revised set of plans to the Florida Fish and Wildlife Conservation Commission (FFWCC) and Florida Department of Environmental Protection (FDEP) for consideration and determination in the issuance of the Coastal Construction Control Line (CCCL) permit currently under review by the State agencies. This scope assumes that a re-submittal to FDEP or FFWCC will not be necessary; therefore, services required to permit any lighting revisions are not included. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include SP-P621 through SP-627.

7. Task 11 – Revisions to the Electrical Plans

- Once all luminaire location and photometric revisions are completed, the Electrical Engineers will revise the electrical plans to revise the locations of any fixtures that were impacted and provide the circuit revisions accordingly. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include E-P201 through E-P207.

8. Task 12 – Revisions to the Grading Plans

- Spot elevations previously placed at the westernmost edge of the walkway will need to be revised to the new geometries. This is critical, as it is necessary to ensure that cross-slope pitches are preserved for positive drainage off of the walkways and that ADA slopes and transitions are met per the ADA code, especially where west-east connector walkways originating from the new and improved entrances connect to the reduced widths of the Atlantic Way revisions. CGA will also cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include C-P401 through C-P407.

9. Task 13 – New Material Specifications, Walkway Cross-Section and Detail

- Consistent with the revisions identified under Task 2 of this proposal, CGA will have to generate specifications for the new material to be introduced. This will need to be reflected in the material schedules. Additionally, two new overall typical sections will need to be designed and drafted to convey to the contractor how the material is to be installed throughout the Atlantic Way portion in these two typical instances. A detail, specific to the installation of the material, will also need to be created and drafted for inclusion in the bid set. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include the creation and addition of a new sheet, sheet SD-205.

10. Task 14 – Revisions to the Proposed Planting Plans

- Understory shrub beds that abut the edge of the walkway will need to be revised to reflect the new edge alignment. Additionally, the plans currently depict the installation of a root barrier along the edge of the walkway where trees are located. The depiction of the location of the root barriers located alongside the western edge of the Atlantic Way segments will need to be revised accordingly. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include L-P801 through L-P807.

11. Task 15 – Revisions to the Proposed Planting Schedules

- Revisions to the areas covered by shrub planting beds in Task 14 will result in changes to the amount of plants required for each modified planting bed. CGA will need to calculate and quantify the amounts of plants needed to cover the areas that were modified and incorporate those revised quantities into the planting schedules. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include L-P501.

12. Task 16 – Revisions to the Irrigation Plans

- Resulting from modifications to the Proposed Planting Plans in Task 14 of this proposal, irrigation lines will need to be shifted and modified to meet the revisions in coverage areas. The includes the relocation of spray heads, rotors and bubblers. It also will require the re-zoning of areas for the irrigation system, as well as re-calculation of pressure-drops resulting from the modifications. This proposal assumes that the pressure-drop within the system will not require an upgrade to the pump, controller, or any other infrastructure component of the overall irrigation system. As such, this proposal is being drafted with the assumption that the specifications for those components already identified for the project are sufficient, and the recalculation of pump horsepower needs or revisions to the electrical plans and calculations to meet these infrastructure revisions are not included in this proposal. CGA will also need to update the irrigation schedules to reflect any component changes in the system design. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum. Impacted sheets include IR-P101 and IR-P601 through IR-P607.

13. Task 17 – Revision to the General Sheets, as needed

- Once all modifications are complete, CGA will make any necessary revisions to the Index Sheet, sheet G-002, and to the Revisions Log, sheet G-011. CGA will cloud and annotate all modifications as a revision for the forthcoming addendum.

B. SPECIFIC NOTES REGARDING THE LIMITATIONS TO THE SCOPE OF WORK OF THIS PROPOSAL

1. When Client-directed changes require revision to the plans, these changes will be considered services beyond the proposed scope of work. CGA will propose a new lump sum agreement for out of scope changes.
2. The budget does not include changes based on preference or wholesale revisions. Requests for minor revisions, if any, will be evaluated on a case by case basis and will be discussed with the City based on merit of the change(s) and available budget.
3. This proposal is drafted under the assumption that the City's review process of any the revisions outlined herein will be streamlined and will solely be limited to coordination with assigned City Staff from the Capital Improvements Projects Office. This proposal does not include scope or time for coordination efforts to secure approvals from any other department and/or agency beyond the City's CIP Department, either directly or indirectly.
4. CGA notes that the City made a commitment to FDOT in their review of the project for granting funding for the Beachwalk portion of the project that no substantive modifications to the park's site plan would be made following their commencement of all Section 4(f) coordination. Section 4(f) coordination process generally takes one to three months to complete and must be complete prior to Environmental Certification issued by FDOT. CGA is not capable of qualifying whether the modifications requested by the City are deemed substantive enough to require the re-processing of the Section 4(f) efforts by FDOT. The determination of this shall lie solely upon the City or the City's coordination with FDOT. Any services required from CGA in the coordination with FDOT towards this effort shall be provided under an Add-Services contract.
5. This proposal is drafted with the understanding that the modifications being requested are solely for purposes of bidding and construction, not for updating or re-permitting with any agency, including the Florida Department of Environmental Department, Florida Fish and Wildlife Conservation Commission, or any of the City's Departments.

C. ATTENDANCE TO MEETINGS

1. CGA anticipates a total of two (2) one-hour meetings:

- One (1) review meeting with CIP City Staff
 - One (1) final meeting to receive all revisions being issued
2. Any request for CGA staff to attend any meetings beyond those already stipulated in this proposal shall be provided as an add-service under the terms of an Additional Services Agreement.

D. INVESTMENT (COST BREAKDOWN PER TASK)

1. Task 01 - \$1,231.50
2. Task 02 - \$1,603.50
3. Task 03 - \$1,351.50
4. Task 04 - \$1,963.50
5. Task 05 - \$ 511.50
6. Task 06 - \$1,316.50
7. Task 07 - \$1,316.50
8. Task 08 - \$1,259.50
9. Task 09 - \$1,158.50
10. Task 10 - \$2,269.50
11. Task 11 - \$3,811.50

12. Task 12 - \$7,171.50

13. Task 13 - \$1,373.50

14. Task 14 - \$1,051.50

15. Task 15 - \$ 644.00

16. Task 16 - \$2,553.50

17. Task 17 - \$ 451.50

18. Total: \$31,039.00

COST OF THESE SERVICES (Lump Sum)		
I	Professional Landscape Architecture Services	\$31,039.00
II	Meetings not included in I thru I	Hourly
TOTAL (Plus Hourly Services)		\$31,039.00

AUTHORIZATION

**Kindly sign and return this authorization at your earliest convenience.
Calvin, Giordano & Associates, Inc.
will proceed upon receipt of authorization.**

By: _____

Mr. David A. Gomez
Division Director

Date: _____

By: _____

Chris Giordano
Vice President

Date: _____

8/7/15



Calvin, Giordano & Associates, Inc.
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Additional Services Agreement

DATE: August 9, 2019
RE: NBOP Arborist Reports
CLIENT: City of Miami Beach
1700 Convention Center Drive, CIP Office
Miami Beach, FL 33139
ATTENTION: Mr. David A. Gomez
CGA NO.: 15-7934.6

CGA HAS BEEN ADVISED TO PROCEED WITH THE FOLLOWING ADDITIONAL SERVICES:

Due to the client's request for work outside the original scope of services, Calvin, Giordano & Associates, Inc. will provide the following additional services:

I. Professional Landscape Architecture Services

A. GENERAL DESCRIPTION

1. CGA is pleased to present this proposal/agreement for performing ISA Certified Arborist services for the North Beach Oceanside Park. This proposal is specifically tailored to perform all necessary services for the production of an arborist report for three-hundred seventy (370) trees located within the City-owned park. The Urban Forestry Department has not yet shared with us specifically what trees they wish to have evaluated that comprise the 370 trees they have identified. We anticipated this information will be provided prior to the commencement of the services.
2. Consistent with the requirement of the Ordinance of the City of Miami Beach, all field work and report-drafting will be performed by and signed by an ISA Certified Arborist.
3. In an effort to be as thorough as possible, CGA has already preemptively contacted the City's Urban Forestry Department Staff to discuss and identify the exact contents of the report that needs to be included as a minimum requirement. Based on that discussion, the Arborist Reports will include the following information:

Building Code Services
Civil Engineering / Roadway
& Highway Design
Coastal Engineering
Code Compliance
Construction Engineering &
Inspection (CEI)
Construction Services
Data Technologies &
Development
Electrical Engineering
Engineering
Environmental Services
Facilities Management
Geographic Information
Systems (GIS)
Governmental Services
Landscape Architecture
Planning
Project Management
Redevelopment
& Urban Design
Surveying & Mapping
Traffic Engineering
Transportation Planning
Water / Utilities Engineering
Website Development

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Suite 325
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561.684.6360 fax

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- Information and Certification Number for the ISA Certified Arborist
- Statement about the scope of work, identifying date of site visit, species and specific identifiers for each of the subject vegetation
- Statement of the methodology applied to the evaluation of the existing trees
- For each tree to be evaluated:
 - Provide Diameter at Breast Height (DBH) Calculation
 - Identify the canopy spread
 - Identify the location on a tree location plan
 - Evaluate the overall health of the tree
 - Conduct a visual examination of the tree and generate specific comments relative to unique qualities that are either assets or hinderances of the tree
 - Make a determination whether the recommended disposition/action of “removal” or “relocation” is apt for the subject tree
 - Generate actionable recommendations and specifications regarding any specific conditions or criteria that should be performed for that unique tree
 - Provide the necessary photographs to visually highlight observed conditions or qualities of the tree

- General notes and recommendations that need to be observed and adhered to either in the preservation or relocation of trees.

B. SCOPE TASKS AND WORKFLOW

1. Task 1 – Prepare general components of the report with arborist information, statement of scope of work, and statement of methodology applied.
2. Task 2 – Perform Site Visit and perform on-site evaluation of trees. CGA estimates that the Arborist accompanied by a field assistant may be able to evaluate up to 24 trees in per day, full-time. With a total of 370 trees identified by the Urban Forestry Department that need to be evaluated, that represents an investment of 16 days for two staff members on a full-time basis, only to conduct the field work (256 hours total).
3. Task 3 – Prepare an Arborist Report, including all the components identified above, including all necessary evaluations and recommendations. This includes time for the ISA Certified Arborist to prepare the contents of the report and clerical time needed to sort field collected data, prepare a site location map, incorporate technical language developed by the Arborist, incorporate and place photographs of the trees, and prepare and format the document accordingly. Because the arborist needs to create specific recommendations and observations notes PER tree, we are estimating that this will require a time investment of up to 1.25 hours PER tree (0.25 hours for the arborist to draft the technical data, 0.25 hours to prepare the location plan, 0.25 hours to locate, format and insert photographs, and 0.5 hours for clerical work and finalization) representing a PER TREE cost of \$131.00. This is a reduced cost from the typical estimated amount of \$423.00. We are factoring in the assumption that several of the trees will be Seagrapes, and therefore they may have some repetitiveness that will help to reduce the amount of time it takes to prepare the report.

C. INVESTMENT (FEE BREAKDOWN BY TASK)

1. Task 1 - \$ 644.00
2. Task 2 - \$ 35,360.00

- Travel time
 - To the site: 1 hour x 2 staff members x 16 days = 32 hours
 - Return from site: 1 hour x 2 staff x 16 days = 32 hours
- On-Site tree evaluation – field work only
 - 16 days x 8 hours/day x 2 staff members = 256 hours

3. Task 3 - \$ 48,470.00

- \$131.00 estimated PER tree x 370 trees

4. Total: \$ 84,474.00

COST OF THESE SERVICES (Lump Sum)		
I	Professional Landscape Architecture Services	\$84,474.00
II	Meetings not included in I thru I	Hourly
TOTAL (Plus Hourly Services)		\$84,474.00

AUTHORIZATION

Kindly sign and return this authorization at your earliest convenience.

**Calvin, Giordano & Associates, Inc.
will proceed upon receipt of authorization.**

By: _____

Mr. David A. Gomez
Division Director

Date: _____

By: _____

Chris Giordano
Vice President

Date: _____

8/9/19



Additional Services Agreement

DATE: August 9, 2019
RE: NBOP Visualizations Graphics and Presentation
CLIENT: City of Miami Beach
1700 Convention Center Drive, CIP Office
Miami Beach, FL 33139
ATTENTION: Mr. David A. Gomez
CGA NO.: 15-7934.4

We are appreciative of the opportunity to continue to serve the City by providing design visualization support services for the North Beach Oceanside Park (NBOP) Project. In accordance with your request, we are pleased to provide you with this Scope of Work for Visualization and Presentation Services for the North Beach Oceanside Park and Beachwalk Improvements Projects.

I. Professional Landscape Architecture Services

A. VISUALIZATIONS - SERVICES PREVIOUSLY RENDERED AT THE REQUEST AND DIRECTION OF CITY STAFF

1. Definitions:

- **Objects:** Refers to the elements that come together to form a constructed virtual space. These generally include sidewalks and hardscape areas, buildings, roadways, vegetation, furnishings, people, etc.).
- **Scene:** Defines the content of the view within the 'snapshot' that will be photo-rendered. The scene is the view composition comprised of the visible objects that constitute the virtual constructed area.
- **Foreground:** Refers to the visible objects located within the first 20-30 feet (generally) of the snapshot's point-of-view, or the primary subject of view, most immediate to the snapshot's camera.

Building Code Services
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& Highway Design
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Code Compliance
Construction Engineering &
Inspection (CEI)
Construction Services
Data Technologies &
Development
Electrical Engineering
Engineering
Environmental Services
Facilities Management
Geographic Information
Systems (GIS)
Governmental Services
Landscape Architecture
Planning
Project Management
Redevelopment
& Urban Design
Surveying & Mapping
Traffic Engineering
Transportation Planning
Water / Utilities Engineering
Website Development

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Fort Lauderdale, FL
33316
954.921.7781 phone
954.921.8807 fax

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- Mid-ground: Refers to the visible objects located within a range of up to 20 feet immediately beyond the foreground, depending on the angle of the point-of-view.
 - Background: Refers to the visible objects located beyond the mid-ground.
2. Limitations. In order to meet the City's budget allocated for these visualizations, the following shall apply:
- This proposal is only for still rendering images and not for video or animations. Because specific views of the site will be the focus of this scope of work, an overall rendering of the entire site improvements in plan-view will not be included. Similarly, all scenes are limited to point-of-view shot at human eye levels.
 - Still renderings and animations will be developed for external daylight scenes only; this scope of work does not include indoor renderings/animations or night-time renderings/animations.
 - Only a limited number of scenes, to be agreed-upon by the City, will be produced. These will be further spelled-out in the deliverables portion of this proposal. In this manner, the labor-intensive work of modelling the entire project area is eliminated and replaced with only those areas that are reasonably visible within each snapshot. Models will be created with objects (a) only of that specific view and (b) in that specific angle of view. While this reduces cost, it does, however, eliminate the possibilities of adding or modifying any the views once rendered. Any new views will have to be created from scratch.
 - Develop narrowly-defined 3D models of only localized, specific areas visible within the snapshots that will be photo-rendered.

- Only what is immediately visible within the foreground of each scene will be modelled to a level that is specifically accurate with the proposed improvements, with the exception of topography; all areas within the mid-ground and backgrounds will be rendered in a manner to approximate the proposed improvements but shall not be required to be accurately representative of the specific improvements.
- Reconstructing topography exponentially increases the amount of work required to model and mesh the built environments with extrusions that follow contours of any landforms, ensuring that the surfaces will be continuous for graded/ natural materials and provide a 'break' accordingly at proposed features (e.g., pathways, curbing, etc.). As such, all modelling will render the site as flat and 'notions' of topography may be attempted through image distortions once the photo-rendering is assembled. The intent will be to approximate the proposed topography but it shall not be required to be accurately representative of the topography.
- All 3d models of site amenities and furnishings (such as benches, bike racks, fencing, bar-b-ques, picnic tables, lighting fixtures, etc.) depicted in any model shall be readily-available, material-textured and provided by their respective manufacturer. Where readily-available 3d models are not available, a generic 3d model of an amenity that may resemble the proposed amenity will be utilized. This scope of work does not include the custom modelling neither of site amenities nor of furnishings to be accurate or consistent with the proposed improvements.
- Because playgrounds and shade canopies are highly modular and customized for each unique location by the manufacturers, any representation of the playground improvements will be depicted with a general playground component that approximates the experience being proposed. Custom modelling of these elements is not included.

- 3d modelling of landscaping will be limited to trees only (shrubs will be added in the post-processing phase of the creation of the image). The depiction of trees will solely rely on the availability of readily-available, textured 3d tree models. These will be selected for their form, color and shape and will be utilized to represent a specific tree species it most visually approximates. Custom trees can be modelled but they require highly specialized software to guarantee an organic look and generally can take a minimum of 9 hours to create, per specie-type.

3. Tasked Workflow:

- Task 01: Develop a general background for the model to anchor the snapshots so it is interpreted to be consistent with the project's real geolocation.
 - Task 01A: Develop a 3d model of the lots on the west side of Collins, generally known as the 'West Lots', using simple extruded massing models, that may serve as the backdrop of the scene at the time of determining the angle to photo-render.
 - Task 01B: Develop a 3d model of the curb, sidewalk and parking pavement striping along Collins Avenue.
 - Task 01C: Develop a 3d model component of the ocean side and the horizon consistent with the location of the beach and the dunes to the park improvements. These will be simple textures utilized to depict the Atlantic Ocean and randomize the general texture of the vegetation occurring within the dune areas.
- Task 02: Perform cad line work clean-up from the construction plans line work to merge layers from different files, re-assign layers as needed, and isolate line work needed for modelling to create a modelling cad-base file.

- Task 03: Develop 3d models with their respective degree of accuracy, determined by their location relative to the camera's point-of-view origin and if they fall within the foreground, mid-ground or background, as defined. These models may include:
 - Proposed roadways, curbing and access points along Collins Ave
 - Proposed pathways and sidewalks, and other hardscaping features
 - 3D Monuments and Structures
 - Restrooms and concrete pavilion shelters
- Task 04: Incorporate any readily-available textured, 3d models of site amenities and furnishings in their locations within the 3d space.
- Task 05: Create 3d planting nodes for all trees consistent with the final planting plan, separated only by specie. Distinctions whether they are (a) existing trees to remain, (b) trees that have been relocated, or (c) new trees that will be planted will not be made, as this will add a minimum of an additional 5 days of work to parse-out each individually in the node-modelling stage.
- Task 06: Assemble a palette of materials and textures that are representative high-resolution UV textures of the proposed improvements. These will need to be scaled appropriately so that they render as reasonably approximate to the degree of texture that will be perceived once constructed.
- Task 07: Merge all components into each unique scene.
- Task 08: Export all scenes from the 3d modelling platform software to a rendering platform software.

- Task 09: In the rendering platform:
 - Customize each camera angle, focal length, depth of field setting, sun angle and time of day
 - Populate the scenes with (a) pedestrians and cyclists, (b) cars, trucks, and buses, and (c) beach and the Atlantic Ocean
 - Replace specie-specific tree nodes with readily-available textured, 3d tree models.
- Task 10: Render and export each scene for post-production photographic processing at a resolution of ultra-high definition of 3840 x 2160 pixels. Each scene generally takes about 5-6 minutes to render and needs to be rendered 5 separate times, each with different components (background, mid-ground, foreground by material, amenities, pedestrians) to facilitate the post-production processing. This is equal to approximately 30 minutes per scene.
- Task 11: Once rendered, each separate scene will be processed by photo-rendering in Adobe Photoshop to create a photo-montage. This includes:
 - Adding and modifying environmental conditions, including sun and clouds.
 - Adding planting textures to the mid-ground and background that assimilate the expected elements that will be generally visible within that scene's point-of-view.
 - Adding photo textures to each material to increase their perceived realism.

- Performing visual distortions typical of depth-of-field blurring and bokeh that approximates the perceived experience of the scene.
 - Performing color correction to ensure that all elements within the scene are correctly color-balanced and correctly lit.
 - Adding ambient lighting and lighting/chromatic aberrations to approximate the experience of the viewer.
- Task 12: Export each photo-montage to a flattened jpeg format for use in presentations and print media at a resolution of 300dpi.
4. Visualization Scene Definitions: A total of 5 exterior daylight still renderings of the proposed improvements will be provided at ultra-high definition image resolution of 3840 x 2160 in digital .jpeg format for the following:
- 1) View approaching the park at a street intersection designated as a Major Gateway
 - 2) View approaching the park at the corner plaza proposed for 79th Street
 - 3) View within the park looking north-easterly along 'Atlantic Way', at its intersection with one of the circular pod paths that lead towards the beachwalk.
 - 4) View within the park looking southerly along 'Atlantic Way' with the children's playground, the restroom and the pavilion in the mid-ground.
 - 5) View westerly along a circular pod pathway with the beachwalk gates in the foreground.

5. 'Before' images: CGA will visit the site with a professional photographer and shoot photographs of the existing conditions with lenses that match the focal lengths being used in the renderings to approximate as close an image as possible to generate a relatable before-and-after comparison.
6. Aerial Drone Photography: CGA will conduct and shoot various photographs of the existing canopy and existing conditions on-site, as well as two (2) short bird's-eye perspective view video recordings of panning movements focusing on the canopy in the park.

B. PREPARATION OF PRESENTATION - SERVICES PREVIOUSLY RENDERED AT THE REQUEST AND DIRECTION OF CITY STAFF

1. CGA will prepare a presentation of the proposed improvements for distribution to the public and to City Staff. It is expected that all graphic contents of this presentation will be comprised of already-produced imagery (except for those specific visualizations proposed in this scope of work proposal), diagrams and charts and that no new graphics will be needed.

C. REVISIONS AT THE REQUEST OF THE 'READY TEAM' - SERVICES PREVIOUSLY RENDERED AT THE REQUEST AND DIRECTION OF CITY STAFF

1. Slide 16: Revise graphic to reduce proposed width of Atlantic Way from 25 feet to match width of existing asphalt pathway (18 feet). This will require some remodeling of the 3d virtual model of the proposed improvements in order to obtain the accurate geometries of the walkway with the requested width reduction. Additionally, the Team requested that a material change be legible throughout the walkway to make it seem narrower.
2. Slide 18: Revise the graphic to include a planting island at the intersection of the various walkways. This will be done visually as a post-processing modification without having to modify the 3d model of the proposed improvements.

3. Slide 20: Revise the graphic to change the materiality of the ground from sod to dropped leaves to more-accurately represent what the final project will look like.

D. WORK PERFORMED IN PREPARATION OF THE SUSTAINABILITY AND RESILIENCE COMMITTEE MEETING - SERVICES PREVIOUSLY RENDERED AT THE REQUEST AND DIRECTION OF CITY STAFF

1. Modifications to the presentation: Revise Slide 2, Scope of Work description
2. Prepare a tear-sheet with calculations on the impacts of pervious to impervious areas for the 'before' and 'after' scenarios

E. ATTENDANCE TO MEETINGS - SERVICES PREVIOUSLY RENDERED AT THE REQUEST AND DIRECTION OF CITY STAFF

1. CGA has attended a total of three (3) meetings:
 - One (1) review meeting with CIP City Staff, held on June 20, 2019
 - One (1) City staff presentation meeting to the City's 'Ready Team', held on June 24, 2019
 - One (1) Sustainability and Resilience Committee meeting attendance and presentation, held on July 19, 2019

F. REVISIONS AT THE REQUEST OF THE SUSTAINABILITY AND RESILIENCE COMMITTEE MEMBERS – SERVICES YET TO BE RENDERED

1. Create one (1) visualization rendering similar to the view shown on Slide 16, except that the camera location should be placed nearer to the fence-line along Collins Ave to show the pervious lawn areas in the foreground. This new rendering will be achieved by creating necessary minimal additions to the 3d model to properly depict the trees and the improvements planned.
2. Create one (1) visualization rendering from a bird's-eye view, similar to the perspective of the drone video, depicting the relationship of the pervious areas being proposed within the context of the overall site. The goal is to illustrate that the amount of impervious improvements remains below 20 percent of the overall site. This will require an extensive addition of the 3d tree species to the virtual model in order to illustrate the true density of the canopy to remain after construction will be completed.
3. The additional graphics will be consistent with those elsewhere described in this proposal at an ultrahigh image resolution of 3840 x 2160 in digital .jpeg format.
4. Incorporate modifications and additions to the presentation

G. ATTENDANCE TO MEETINGS - SERVICES YET TO BE RENDERED

1. CGA anticipates a total of two (2) one-hour meetings:
 - One (1) review meeting with CIP City Staff
 - One (1) public meeting
2. Any request for CGA staff to attend any meetings beyond those already stipulated in this proposal shall be provided as a service under the terms of an Additional Services Agreement.

H. SPECIFIC NOTES

1. When Client-directed changes require revision to the models, modifications of elements or changes to vantage points for still rendering, these changes will be considered services beyond the proposed scope of work. CGA will propose a new lump sum agreement for out of scope changes.
2. The budget does not include changes based on preference or wholesale revisions. Requests for minor revisions, if any, will be evaluated on a case by case basis and will be discussed with the City based on merit of the change(s) and available budget.
3. This proposal is for visualization of the developed park improvement plans only. Visualizations for different configurations or alternatives to design of the project is not included in this Scope of Work.
4. The visualizations are not intended to be an engineering simulation.
5. Modeling of any proposed indoor space or night-time condition is not included in this Scope of Work.

COST OF THESE SERVICES (Lump Sum)		
I	Professional Landscape Architecture Services	\$14,380.00
II	Meetings not included in I thru I	Hourly
TOTAL (Plus Hourly Services)		\$14,380.00

AUTHORIZATION

Kindly sign and return this authorization at your earliest convenience.

**Calvin, Giordano & Associates, Inc.
will proceed upon receipt of authorization.**

By: _____

Mr. David A. Gomez
Division Director

Date: _____

By: _____

Chris Giordano
Vice President

Date: 8/7/17