



Stantec Consulting Services Inc.

SUPPLEMENT 1 WORK ORDER

for the CITY OF CLEARWATER

Date:	July 10, 2019
Consultant Project Number:	215614389
City Project Number:	17-0031-EN
City Plan Set Number:	2017026

1. PROJECT TITLE:

Imagine Clearwater Construction Plans - Design and Construction Consulting Services

2. SCOPE OF SERVICES:

- I. Stantec Consulting Services Inc. (Stantec), the Design Professional, is pleased to submit this proposal outlining the Scope of Services and associated Fees for Professional Services for the subject project to the City of Clearwater (Client/CITY). This current proposal specifies the Scope of Services that clearly can be defined with emphasis on specific tasks of improvements identified within the Imagine Clearwater Master Plan Validation (ICMPV) as discussed with Client staff. It is anticipated that additional tasks will be added to this contract by amendment as required to deliver various components of these improvements in a phased project delivery approach.
- II. CITY has proposed to deliver this project through a Construction Manager at Risk (CM). It is assumed that the CM will be under contract, for pre-construction services, no later than end of the Schematic Design Phase of the project.
- III. The basis of this proposal is the Master Plan as validated through Purchase Order ST114805 to improve the downtown waterfront. The CITY approved Validated Master Plan (VMP) and anticipated phasing of the improvements are attached to this scope for reference. It is assumed construction limits of project phases will be more clearly defined, as coordinated with the CM, during the Design Development phase of the project.
- IV. The proposed scope of services is based on delivery of the project in one continuous sequence. Should it become necessary to phase the delivery of the design, Stantec will review impact to the scope and budget of the project with CITY to address changes.
- V. The purpose of the phasing of the project is to allow for sequencing construction of some elements of the project while some existing elements, such as existing bandshell and marina

facility, may still function. However, it is anticipated that project phases will be delivered continuously.

- VI. Should CM propose different construction phasing for the project or require more than two (2) bid packages and/or early packages, Stantec will re-evaluate the scope of services proposed here for any required changes.
- VII. As part of the validating the master plan bandshell design options were developed and reviewed with the CITY. CITY selected to proceed with an amphitheater designed with 4,000 covered seating and 12,000 lawn audience seating. The bandshell back of the house will include facilities to support the performances as well as talent. A VIP area is proposed in addition to an attached public rest room facility as well as a possible concession facility.
- VIII. This scope of services includes project management, planning, architecture, landscape architecture, engineering, design, permitting and other professional services necessary to implement the specific project requirements. The proposed components/zones of the project are as follows:
 - A. Civic Gateway Area to include restroom, storage, upper plaza, shade structures, fountain/water features, Cleveland Street modifications, drop off area, grand stairs, lower plaza and associate hardscaping, landscaping & infrastructures.
 - B. The Green- Amphitheater/Lawn Area to include great lawn, amphitheater with attached rest room & concession facilities, amphitheater service & access areas, rest room & marina services building surrounding pedestrian circulation areas and associate hardscaping, landscaping & infrastructures.
 - C. The Lake Area to include surface parking lots, Pierce Street modifications, lake, piers, trails, board walks and associate hardscaping, landscaping & infrastructures.
 - D. Bluff Walk South to include the bluff walk, pedestrian bridge over Cleveland Street, pedestrian connection to the lower areas of the south bluff area and associate hardscaping, landscaping & infrastructures.
 - E. Bluff Walk North to include the bluff walk, art wall, connection to the library and associate hardscaping, landscaping & infrastructures.
 - F. Coachman Garden to include the interactive fountain, playgrounds, community garden, boardwalks, rest room facility and associate hardscaping, landscaping & infrastructures.

Project phases are per enclosed Attachment "D" of the Validated Master Plan. Items A, B, C & D are proposed as Phase 1 of the project. Items E & F are proposed as Phase 2 of the project. Should CITY decide to design the Amphitheater/Bandshell or any other components of the proposed project in multiple phases, Stantec will re-evaluate the scope of services proposed here for any required changes.

The major Milestones of this proposed scope are:

- Schematic Design (SD) – 30% Level Design
- Design Development (DD) – 60% Level Design
- Construction Documents (CD) – 90% & 100% Level Design
- Permitting of Imagine Clearwater (IC) Components
- Construction Administration (CA) / Construction Support Services (CSS)

- IX. Stantec basis of the fee estimate is 2019 Dollar. Should project extends more than two years beyond the date of this proposal, Stantec will request consideration of re-evaluating the basis of the fee estimating for the remainder of the proposed scope of services.

The proposed scope of work of each discipline/section is described in the following paragraphs and followed by each discipline's task list.

SECTION 200 – PROGRAM MANAGEMENT

Stantec will provide support services for coordination of this Task Order with other parts of the project, developments and consultants, development of project schedule, project delivery, budget tracking, meetings, etc. as per the following Tasks:

Task 205 Project Management

Stantec will perform various regular project management related activities to support the Client's management and administration of the overall project. Under this task, Stantec project manager will work closely with the Client's team and Stantec Task Managers to facilitate addressing project related issues, cross disciplines coordination, track budget, and maintain the project schedule. Duration for this Task is estimated to be eighteen (18) months.

Task 206 Project Meetings

Stantec will establish and hold regularly scheduled meetings with the Client and other interested parties and/or stakeholders. Stantec will assist the Client to coordinate project implementation with the City departments, permitting agencies, utility companies, and other stakeholders. Participation of three (3) to four (4) Stantec professional staff, along with applicable sub-consultant professionals, with expertise in various technical disciplines may be required. Attending project related meetings will be provided under this task. Meetings may occur in-person, web-based, tele-conference; etc. as mutually accepted. Stantec staff will attend meetings, prepare and track action item summaries.

Duration for this Task is estimated to be eighteen (18) months with estimated up to forty (40) meetings.

It is anticipated that the CITY will manage all public information and involvement services.

Task 207 Project Coordination

Stantec Project Manager will coordinate services of the Stantec design team, subconsultants, QA/QC procedures/implementation, format of deliverables, review submittals, response to comments documentations, tracking of the schedule and CM coordination during the pre-construction phase.

Task 208 City Council / Public Meetings

It is anticipated that milestone presentations to the City Council and/or Public may be required. Stantec will lead this effort with assistance from CITY. Purpose of these meetings will be to inform/update the Council and the Public of the project progress. Comments from Council, as directed by the CITY, will be addressed by Stantec. Stantec will attend these meetings and provide graphics and plans as needed. It is assumed up to three (3) Stantec team members will attend up to four (4) public meetings.

SECTION 400- CIVIL ENGINEERING SERVICES

Stantec will provide professional civil engineering services for the design and preparation of plans and specifications based on the design approved by the CITY, as well as apply for the required site/civil permits. Proposed project will result in reduction of the impervious surface area. As such, it is anticipated that water quality treatment will not be required. Since project directly discharges into the intercoastal water, attenuation of stormwater runoff will not be required. However, CITY intends to improve the water quality. To improve the water quality, most of the stormwater run off from the site will be routed through baffle boxes. Additionally, the south area will be routed through the proposed lake to improve the quality of the discharged water. The proposed site/civil improvements services will be coordinated with the overall project Schematic Design (SD), Design Development (DD), Construction Documents (CD), and Construction Administration (CA).

The Engineering Phase services are to be provided in accordance with the following Tasks:

Task 410 Civil Engineering Schematic Design

Schematic level of services of following scope of work will be performed.

Design

Stantec shall furnish complete design services for the project site/civil engineering improvements and preparation of the site engineering plan and other pertinent related and detail sheets. Plans are at a scale of one inch equaling twenty feet (1"=20') full sized, with planimetric background. Plans are produced from a topographical design survey in digitized format. Geometrically accurate site plan, defining all surfaces and intent will be prepared by the design team under tasks of this proposal. The overall intent of the project grading will be developed by the team for CITY's approval. Stantec will engineer the layout of the site to be used for project layout and provide the required construction details. Any specialty pavement sections, i.e. pavers, will be prepared by the team with Civil Engineer's input. Stantec will prepare the detailed grading of the site according to the design intent. Structural engineering of the site elements will be provided under other tasks of this proposal as coordinated by the Civil Engineer. Stantec will submit required number of plans sets and digital files in AutoCAD format as required by CITY.

Plans Preparation

Stantec will prepare full sized sets, twenty-two inches by thirty-four inches (22"x34") boarder with plot, of Construction Plans within the project limits for the final submittal. As part of the overall plan set, at a minimum, the following engineering drawings will be included: site plan, paving, grading and drainage sheets, detail sheets, utility coordination/adjustment

sheets, water, wastewater and reclaimed water relocation plans and services. Half size plan sets, eleven inches by seventeen inches (11"x17"), will be provided for phase submittals.

Drainage

The existing drainage system shall be evaluated for its conformance to City standards. Improvements such as new structures and adjustments and upgrades of existing structures shall be incorporated into the plans. It is anticipated that the collected and treated stormwater runoff from the site will be discharged into intercoastal water. Proposed project will result in reduction of the impervious surface area. As such, water quality treatment will not be required. Since project directly discharges into the intercoastal water, attenuation of stormwater runoff will not be required. CITY prefers to improve the water quality. To improve the water quality, most of the stormwater run off from the site will be routed through options such as baffle boxes, etc. Additionally, the south area will be routed through the proposed lake to improve the quality of the discharged water. In addition, as coordinated with the project design, treatment methods such as bio-swailes will be utilized to enhance water quality from the untreated areas.

Traffic Engineering

On site traffic is primarily modifications of Cleveland Street, Drew Street, parking areas access and circulation as well service and emergency vehicles. Stantec will assist the team in development of the design of the modifications of the streets and parking layout meeting City standards, access drives, circulation drives, service and emergency vehicles access/circulation.

Public and Private Utilities

Stantec will coordinate the design work with the public and private utility agencies and companies having existing and/or planned facilities within the limits of the project as determined under Utilities Notification.

Stantec will provide the utility agencies and companies two (2) sets of plans at the sixty (60%) percent and ninety (90%) percent complete design phases. At the sixty (60%) percent complete design phase, the utility agencies and companies will be instructed to return one (1) set of plans to Stantec showing their utility relocations, adjustments, new facilities designs, and existing utilities to remain. Stantec's utility coordination responsibilities will continue throughout the design process to assist with resolving utility conflicts. Any utility design services for new facilities or the proposed relocation and adjustment of existing electric, gas, and communication facilities will be provided by the utility owners. At the ninety (90%) percent complete design phase a final review/confirmation of any utility impacts will be requested from the utility companies.

It should be noted that gas is owned by Clearwater Gas. It is assumed any required design, permitting and delivery of adjustments to the existing gas lines and addition of required services will be provided by Clearwater Gas. Stantec will provide the services required to coordinate this effort.

As part of the project plans preparation, Stantec will prepare the Utility Adjustment Plans. It is assumed the design and preparation of the relocation plans for any private utilities will be by the utility owner. Stantec will incorporate the location of the private utilities as part of the utility adjustment plans for information only, assuming the information is provided to

Stantec by the appropriate utility company in sufficient detail and in a timely manner. Stantec will coordinate location of private utilities' conduits, duct banks, manholes, valves, etc. In addition, Stantec will coordinate location of electrical equipment such as meters, transformers; switch gears, etc. as required for the improvements of the project.

Water, Wastewater, and Reclaimed Water Plans

Stantec will prepare the plans for water and wastewater services required for servicing the proposed project facilities. Stantec will coordinate this effort with the City Water and Wastewater Departments to establish the required improvements/modifications. Services under this task will also include the coordination of required adjustments/relocation of the existing City owned water, wastewater and reclaimed water facilities.

Specifications

City's Standard Specifications, by reference in the plans, will be used for the project. In certain instances, Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction may need to be referenced. Stantec will prepare the special conditions section of the specifications for items deviating from City's Standards as required by the design.

Quantities and Construction Cost Estimating

CITY is proposing to hire a Construction Manager (CM). Stantec services will be limited to providing the CM the information required in order for CM to prepare the quantities for cost estimating, pricing and bidding of the project.

Quality Control

Stantec will conduct the QA/QC, of the proposed project. This QA/QC is for the purpose of verification of compliance with governing design practices, standards and guidelines as well as reviewing agencies' standards and guidelines. Plans will be reviewed as part of the SD, DD and CD Tasks.

Task 420 Civil Engineering Design Development

Design Development level of services of the above scope of work will be performed.

Section 430 Civil Engineering Construction Documents

Construction Documents of the project phases for the Site/Civil Elements of the project, in coordination with the CM, will be prepared. Preparation of the construction documents for each of the 2 project phases are anticipated. Phase 1 includes Bandshell but tracked as a separate Task.

Task 431 Civil Engineering CD Phase 1

Task 432 Civil Engineering CD Bandshell

Task 433 Civil Engineering CD Phase 2

Section 440- Site Permitting Services

Task 441- Permit Applications and Initial Submittals

Stantec will prepare and submit the permit applications, plans and supporting documents for submittal to the appropriate agencies or departments. Stantec will set up and attend submittal conferences where appropriate. Submittals for review and/or approval will be made to the following agencies or governmental departments:

- City of Clearwater (City)- Application for Flexible Standard Development Application (FSA)
- Southwest Florida Water Management District (SWFWMD) – Environmental Resource Permit (ERP)- Request for No Permit Required
- Florida Department of Environmental Protection (FDEP) - Water System Permit
- FDEP - Wastewater System Permit
- USACOE Permit (It is understood that project Marine Engineer will lead this effort. Stantec will provide the ecological services required to address environmental issues.)
- FDEP- NPDES

National Pollution Discharge Elimination System (NPDES)

Stantec will complete appropriate sections of the NOI and Notice of Termination (NOT) applications available from FDEP. Stantec will submit the NOI and the NOT to the CITY or the CITY's contractor for completion, signature and transmittal to the FDEP. Stantec will also prepare a suggested draft of Stormwater Pollution Prevention Plan (SWPPP) for the site. Stantec will submit the suggested draft SWPPP to the CITY or the CITY's contractor for use only as a guide in preparing the final SWPPP. The final SWPPP, as prepared by others, will be located as described in the NOI.

Note: The CITY or the CITY's contractor will also be responsible for the following:

- Signing the NOI, NOT, and the final SWPPP as the "Operator and/or Responsible Authority" for the project
- Implementing the "Best Management Practices" as shown in the final SWPPP prepared by others
- Maintaining the "Best Management Practices" as shown in the SWPPP prepared by others as required to accommodate conditions in the field
- Monitoring the site conditions and preparing all reports as required by the conditions of the general NPDES permit

If requested, Stantec will provide the suggested draft SWPPP for the site and the typical details of certain Best Management Practices to the CITY or the CITY's contractor in an electronic format.

Task 442- Agency Meetings and Negotiations

Stantec will meet and negotiate with agency representatives having concerns during the review/approval process. Stantec will complete additional design revisions based on the agreements reached during the agency meetings and resubmit the plans and supporting

documents for final approval. The number of re-submittals to address review agencies comments is as follows:

- City Approval 2
- SWFWMD ERP 1
- FDEP Water and Wastewater Services 1
- USACE 1
- FDEP NPDES 0

Additional re-submittals and revisions due to design changes or any other reasons beyond the control of Stantec, or special meetings and/or negotiations with agencies [beyond one (1) meeting per agency] will be considered as Additional Services. Upon the Client's request, this Service may include special meetings with the agencies for purposes of accelerating the permit approval process. If these special meetings were requested, this would be considered an Additional Service.

Section 450- Civil Engineering CA Services

As Engineer of Record (EOR), Stantec will provide limited services as required during construction to verify the project is constructed in general conformance with the construction documents and permit requirements.

CITY is proposing to deliver this project through a construction manager (CM) and is in the process of selecting a contractor for this role at the time of this proposal. CM will be responsible for developing the Guaranteed Maximum Price (GMP), the assemblage of the bid package, bidding, recommending the selected contractor to the CITY. Stantec services will be provided through the Client.

Stantec's scope of work is based on an estimated total sixteen (16) month construction period for Phase 1 and eight (8) month for Phase 2. Separate Tasks are anticipated for the 2 phases of the project. Phase 1 includes Bandshell but tracked as a separate Task.

Task 451 Civil Engineering CA Phase 1

Task 452 Civil Engineering CA Bandshell

Task 453 Civil Engineering CA Phase 2

It is anticipated that the required services will be provided based on the project progress and needed expertise as per following paragraphs.

Pre-Construction Services

Stantec will assist the CITY, and CM with the bidding of the site improvements of the project. This will include providing plans, specifications to the Client/CM for preparation of bid documents, attending pre-bid meeting, responding to questions and required clarifications for the elements of the project designed by Stantec. CM will be responsible for the bid process.

Pre-Construction Meetings

Following the selection of the site contractor, Stantec will participate in one (1) pre-construction meeting for the project. It is assumed this meeting will be set up by the CM

and attended by the CITY, Contractor; City construction services representatives, utility companies, agency inspectors, impacted stakeholders etc.

Submittal Reviews

Technical Submittals – Stantec shall review technical submittals (shop drawings, cut sheets, etc.), results of tests and inspections, and other data related to the improvements of the project designed by the Stantec team, which the Contractor is required to submit. Technical submittals are anticipated for drainage facilities as well as site related improvements. It is anticipated that the water and wastewater submittals will be as per the pre-approved list of the City and will be processed by the CM. The acceptability of substitute materials and equipment proposed by a Sub-Contractor will be initially reviewed and approved by the CM. If the CM accepts the substitute material, it will be submitted to Stantec for processing, including submittal to the entities that may be affected by such a modification. It is the CM's responsibility to provide all documentation required to prove the substitute material is the same or better than the material specified. Special negotiations as a result of changes/modification are not included. It is assumed all submittals will be made in a timely manner allowing Stantec a minimum of two (2) weeks of review time. It is also assumed that no more than twenty-five (25%) percent of submittals will require re-submittal. It is anticipated that the CM will maintain a submittal log. Updated log will be distributed to all parties involved on a weekly basis by the CM.

Construction Observations

Site Visits/Observations – Stantec will visit the site on an as-requested basis (by Client/CM). This task includes up to forty-eight (48) site visits during active construction period, average of 3 visits per month. It is anticipated that these visits will be for observation of progress of site elements, pressure tests and similar activities. Specialized staff will make these requested site visits or accompany the Stantec construction representative as needed. Stantec staff may make additional visits, as required by other project related tasks, such as for an RFI clarification, etc. It is assumed the inspections required for determining if the site/civil engineering improvements are completed in general accordance with the approved plans, specifications, and permit conditions will be performed by the CM. Copies of the reports and associated documentation, by the CM, will be provided to Stantec. Any additional site visits will be considered as Additional Services.

Stantec will not, during the site observation visits or as a result of such observations of the Contractor(s) work in progress, supervise, direct or have control over Contractor(s) work, nor will Stantec have authority over or responsibility for means, methods, techniques, sequences or procedures of construction selected by the Contractor(s) to comply with laws, rules, regulations, ordinances, codes or orders applicable to Contractor(s) furnishing and performing their work. Accordingly, Stantec can neither guarantee the performance of the construction contracts by the Contractor(s) nor assume responsibility for Contractor(s) failure to furnish and perform their work in accordance with the plans.

Final Inspections

One (1) sitework punch list will be developed during the walk-through with the CM, Contractor, Stantec and CITY representatives, as developed by the CM. A comprehensive list of items requiring repair, modification or replacement will be compiled prior to performing a final walk-through. After the contractor completes the punch list, a final walk-through inspection will be performed to verify the modifications and corrections have

been completed. Applicable government inspectors will be invited to attend this final walkthrough inspection. It is assumed that up to four (4) final inspection site visits will be required, two (2) to prepare/refine the punch list and two (2) to confirm completion of the punch list. Any additional final inspection site visits will be considered as Additional Services.

Progress Meetings, Office Support and Coordination

Stantec will attend progress meetings on an as-requested basis, or concurrent with the site visits, and provide office support and assistance during the construction phase of the project. This will include responding to Requests for Information (RFIs) and providing other input and clarification to the CITY/CM for issues relating to/resulting from the elements of the project designed by Stantec. Services associated with CITY/CM or Contractor requested design changes and/or re-permitting efforts are not included. If such services become necessary or are requested, Stantec will provide these services on a time and material basis as additional services. For the purpose of developing the fee, it is assumed bi-weekly progress meetings. A Stantec Staff will attend these meetings, unless coordinated otherwise with CITY. Any additional meetings will be considered as Additional Services.

Record Drawings

Stantec will review Record Drawings, prepared and certified by a Registered Land Surveyor (in digital/AutoCAD format as acceptable to Stantec). The CM will be responsible for obtaining this information from a Registered Land Surveyor. The Record Drawings will be submitted to the permitting agencies as part of the Engineer's Certification of Completion of Construction.

Certifications – Stantec will certify to the CITY, SWFWMD, and other applicable permitting agencies that the Work has been performed in accordance with the permit conditions and the approved plans upon successful and acceptable completion of the work by the Contractor. Certifications will be signed and sealed by a Registered Engineer in the State of Florida.

Dedication/Acceptance of Improvements

It is anticipated the water and wastewater facilities will require formal dedication to the City. Stantec will provide services related to the submittal, processing, inspections and certifications to support and facilitate the acceptance of water and wastewater facilities by City.

Section 460- Civil Engineering Associated Services

The following tasks will be provided in association with the Site/Civil Engineering services.

Surveying Services

CITY has provided topographic survey of the site. Stantec is proposing to provide the subsurface utility designation and vacuum excavation.

Task 461- Subsurface Utility Designation

Stantec will perform investigations using ground penetrating radar (GPR) and electromagnetic signal induction methods to discover and designate subsurface utilities within specific areas of the project as directed by the Project Civil Engineer. The specific areas targeted for investigation will be those areas where conflicts between proposed improvements and utilities to remain in place are known or suspected. These efforts will be performed on a time and materials basis and fee shown for this task reflects an estimated amount only. Actual fees may be more or less than the amount shown based on the actual effort requested.

Task 462- Vacuum Excavation

If requested by the Client, Stantec will perform vacuum excavations for the specific purpose of identifying the precise location and depth/elevation of existing utilities at specific conflict locations.

Reference points will be established at each excavation to memorialize the location of the subject utility and a data sheet will be prepared to document the measured depth from each reference point to the top of each excavated utility, its type, material and size. Photographs of each excavated utility will also be collected.

Daily rate for vacuum excavation is \$1,875.00 the fee shown shows an estimated level of effort of eight (8) days. Actual fee maybe more or less than the amount shown.

Geotechnical Engineering Services

Task 463- Terracon Geotechnical Engineering Services

Geotechnical engineering services will be provided by Terracon as a sub-consultant to Stantec with utilities designation and survey support by Stantec. Proposed scope of services is attached.

Marine Engineering Services

Task 464- Moffatt & Nichol Water Steps Engineering Services

Engineering services for this task will be provided by Moffatt & Nichole as a sub-consultant to Stantec with permitting support by Stantec ecologists. Proposed scope of services is attached.

SECTION 500- LANDSCAPE ARCHITECTURE SERVICES

Stantec will provide design services for the landscape architecture components of the Imagine Clearwater Waterfront Park. The development of the proposed design includes the following zones initially identified in the Master Plan and further detailed and approved by City of

Clearwater during the Validation Process. The zones and program elements are identified and limited to the items below:

- A. Civic Gateway – Large Public Plaza space acting as the primary entrance to the park and connecting downtown Clearwater with the waterfront park. Established program is limited to:
- Upper Plaza
 - Lower Plaza
 - Grand Stairs
 - Shade Pavilion (by Architecture Team)
 - Water Feature
 - Art Installation(s) (Art to be provided by others)
 - Park Signage
 - Cleveland Street Drop-off
 - Associated Hardscape, Landscape, Site Furnishing, Site Lighting and Irrigation
- B. The Green – Central gathering space for day to day passive and active uses. In addition, the versatility of this area will encompass a variety of event uses including a professional music venue during designated times. Program elements include and are limited to:
- Event/Recreational Lawn
 - Waterfront Plaza and Multi-use Path
 - Water steps
 - Marina Facility (by Architecture Team)
 - Amphitheater (by Architecture Team)
 - Event Staging/Access/Loading Area (Back of House Facility)
 - Park Signage
 - Associated Hardscape, Landscape, Site Furnishing, Site Lighting and Irrigation
- C. The Lake (a.k.a. The Estuary) – More Ecological and passive area of the park providing an abundance of native vegetation around central lake feature. This zone is intended to provide Clearwater's residence with a natural experience and a break to the immediately adjacent urban condition. Program elements include and are limited to the following:
- Lake
 - Parking Facility (Marina and General)
 - Lawn
 - Environmental/Education Plantings
 - Picnic Areas
 - Ceremonial Space
 - Boardwalks/Overlooks
 - Multi-Use Path
 - Trolley Stop
 - Park Signage
 - Associated Hardscape, Landscape, Site Furnishing, Site Lighting and Irrigation
- D. Bluff Walk South – Corridor connecting the Civic Gateway Plaza at Cleveland Street to the Future Development Site (City Hall Parcel). This pathway unites the urban fabric with the park allowing opportunities for seating, gathering, and strolling. Program elements include and are limited to

- Multi-Use Path
 - Pedestrian Bridge
 - Overlook(s)
 - Seating Areas
 - Park Wayfinding
 - Associated Hardscape, Landscape, Site Furnishing, Site Lighting and Irrigation
- E. Bluff Walk North – Corridor connecting the Gateway Plaza at Cleveland Street to the West façade of the Main library. This pathway unites the urban fabric with the park allowing opportunities for seating, gathering, and strolling. Program elements include and are limited to
- Multi-Use Path
 - Overlook(s)
 - Seating Areas
 - Outdoor Classroom
 - Art Installation(s) (Art to be provided by others)
 - Park Wayfinding
 - Associated Hardscape, Landscape, Site Furnishing, Site Lighting and Irrigation
- F. Coachman Garden – More natural portion of the park connected to the community via its public display gardens and destination play features. This zone of the Imagine Clearwater park is expected to facilitate the highest day to day use through the following program elements:
- Playgrounds and other Play Features
 - Splashpad Water Feature and Pump House
 - Garden
 - Lawn
 - Picnic Areas
 - Restrooms
 - Boat House (by Architecture Team)
 - Drop-off
 - Surface Parking
 - Park Signage
 - Associated Hardscape, Landscape, Site Furnishing, Site Lighting and Irrigation

Design services for Schematic Design, Design Development and Construction Documentation are included as part of this scope. The final submittal will be the 100% Construction documents for City review, permitting, and Construction.

Task 510- Landscape Architecture Schematic Design

Based on the City approved Validation Plan, the Schematic Design phase shall help to establish a vision for the proposed landscape (hardscape and softscape) for the Project. It is anticipated that these studies, illustrative in nature, will advance the overall design and help establish design direction for the project, conveying location, character and quality of landscape to be achieved. As part of this work for each component area of the overall park Stantec will perform and is limited to the following tasks:

- Finalize Program Elements for each Component/Area of the Overall Park
- Prepare illustrative plan drawings, elevations, sections, and three-dimensional sketches to further detail and communicate character, scale, and spatial intent of park amenities
- Produce Schematic level design plans including and limited to: hardscape plans (to include preliminary grading) and landscape plans
- Develop sketches or utilize reference imagery and photography to illustrate the key components and material personality of the built environment
- Develop initial concept(s) for park signage and wayfinding. Up to two (2) packages are anticipated.
- Update the overall park master plan graphic to reflect further refinement of park program components, elements, and amenities
- Create a preliminary materials palette for the hardscape and softscape throughout the park

Task 520- Landscape Architecture Design Development

With CITY approval of the schematic design (SD), Stantec will begin Design Development (DD) studies for the Landscape Architectural portions of the work. The Design Development plans and sketches will further define the character and essentials of the project, including a preliminary selection of materials. As part of this work, for each area of the overall park, Stantec will perform and is limited to the following tasks:

- Prepare an initial Tree Protection/Removal Plan
- Develop a Hardscape Plan depicting proposed materials, components, and site furnishing locations
- Establish an initial Grading Plan for elevations, slopes, and level changes
- Further refine enlargement drawing elevations, sections, and three-dimensional sketches to communicate finish, scale, and spatial intent.
- Prepare a Planting Plan identifying location of general categories for trees, shrubs, vines and groundcover.
- Create a Basic Irrigation Plan defining irrigation infrastructure requirements, locations and sizes for primary components, and general intentions for zone systems including main line locations and POC's (no system line pipe sizing this phase)
- Preparation of the site/landscape lighting plan locating all initial components
- Preparation of DD level details, sections, and elevations
- Prepare Outline Written Specifications
- Prepare Site Furniture Plans

Section 530 Landscape Architecture Construction Documents

Stantec will prepare the Construction Documents for the Hardscape and Landscape Architecture Elements of the project, in coordination with the CM. Preparation of the construction documents for each of the 2 project phases are anticipated. Phase 1 includes Bandshell.

Task 531 LA CD Phase 1

Task 532 LA CD Phase 2

The scope of work for these tasks will be per the following paragraphs:

Construction Documents

Based upon the CITY approved Design Development Plans and comments, Stantec shall prepare the necessary plan drawings, details, materials schedules, and technical specifications to permit and construct the landscape architectural elements of the Imagine Clearwater Waterfront Park Project. Park design under these tasks will be coordinated with other disciplines. As such, Stantec proposes to review the 90% CDs' with City and the team, prior to submittal of the 100% CDs'.

90% CDs

The following points clarify the extent of the landscape architecture task for the 90% CD submittal:

- Update the Tree Protection/Removal Plan as necessary
- Further Define the Hardscape plans depicting proposed materials, components, and site furnishing locations
- Prepare construction level details for all hardscape components
- Develop a Materials Schedule for Hardscape materials and finishes
- Assist the Civil Engineering Team in the development of all fine grading and review of any grading plans depicting elevations, slopes, and level changes
- Prepare plan enlargement drawings, elevations, sections, and three-dimensional sketches to communicate finish, scale, and spatial intent.
- Prepare landscape planting plans and plant schedule showing size, location, quantity, and type of all landscape material, including common and scientific names
- Prepare planting details outlining planting procedures, and staking, guying, etc.
- Develop an irrigation plan that comprehensively defines all irrigation infrastructure requirements, locations, and sizes for all components, and plan layout for each irrigation zone including irrigation head layouts and system lines
- Prepare irrigation construction details for the plan components above
- Prepare site/landscape lighting plan that provides fixture location and product selection for the lighting components in the park (electrical engineering shown by others).
- Prepare site furniture plans with notes, legends, material selections and details
- Prepare Initial Written Specifications

100% CDs (Final Construction Documents)

Based on CITY approval and comments from the 90% CDs, Stantec shall prepare the final drawings, details, materials schedules, and technical specifications to construct the landscape architectural elements of the Project. As part of this work Stantec will perform and is limited to the following tasks:

- Finalize the Tree Protection/Removal Plan as necessary
- Finalize the Hardscape plans and modify any construction level details for all hardscape and site furnishings components as necessary
- Complete the Materials Schedule for Hardscape materials and finishes
- Coordinate and Review the final grading plan with the Civil Engineering Team
- Finalize plan enlargement drawings, elevations, sections, and three-dimensional sketches as necessary

- Finalize the landscape planting plans and modify any planting details and plant schedules as necessary.
- Finalize the irrigation plans and confirm calculation and sizing of all equipment.
- Modify Irrigation construction details as necessary
- Finalize site/landscape lighting plans and site furniture plans in conjuncture with the appropriate team member
- Generate final Written Specifications

Task 540- Landscape Architecture Permitting

Stantec will provide limited to assist during the permitting phase of the project. The scope of work is anticipated to include:

- Attending up to three (3) pre-application meetings with the permitting agencies
- Providing signed and sealed plans and analysis as required for submittal of permit applications
- Meeting with the permitting agencies to review the comments
- Address agency comments
- Prepare formal responses to agency comments
- Final submittal to obtain permits.
- Up to one (1) round of response to comments is included

Section 550- Landscape Architecture CA Services

The scope for post-design services can vary significantly based on the level of service requested by the Client, Construction Manager (CM), the Design Team, the construction schedule, and related issues. Stantec will provide the construction administration (CA) services as in-office CA services and site observation visits. The following services are proposed:

Stantec's scope of work is based on an estimated total sixteen (16) month construction period of this project as the assumed level/extent of Landscape Architecture services during the construction phase of the project. Separate Tasks are anticipated for the 2 phases of the project. Phase 1 includes Bandshell.

Task 551 LA CA Phase 1

Task 552 LA CA Phase 2

It is anticipated that the required services will be provided based on the project progress and needed expertise as per following paragraphs.

Meetings and Coordination:

- In-office CA services include review of project RFI's, shop drawings and submittals, issuing clarification sketches as may be needed, and attendance at project OAC meetings as may be necessary
- Meetings include time to attend one (1) pre-construction conference involving the Client, the general contractor, and subcontractor(s) upon the issuance of a notice to proceed (NTP) to the Contractor along with attendance at regular OAC meetings on a monthly basis. A total of 13 meetings is estimated. Attendance at any additional meetings would be considered an additional service.

- For review of shop drawings, results of tests and inspections, and other data or RFI's related to hardscape and landscape improvements, which the Contractor is required to submit prior to initiating construction.
- For in-office CA services up to 240 man-hours is assumed. Any time spent beyond that would be considered an additional service.

Site Visits:

- Stantec will attend site visits to observe and review how area development construction is progressing in conformance with the construction documents.
- Stantec will attend weekly site visits during the installation of hardscape and landscape elements. Stantec has allocated up to 52 site visits.
- Stantec will attend a visit to area landscape nurseries with the GC's landscape contractor to assist with tree tagging (contractor to pre-arrange all visits). We have allocated up to 24 man-hours for these services.
- Stantec will prepare a written report for each field visit documenting observations concerning the progress of this part of the work and its compliance with the requirements of the Contract Documents. However, Stantec will not during the site observation visits or as a result of such observations of the Contractor(s) work in progress, supervise, direct or have control over Contractor(s) work nor will Stantec have authority over or responsibility for means, methods, techniques, sequences or procedures of construction selected by the Contractor(s) to comply with laws, rules, regulations, ordinances, codes or orders applicable to Contractor(s) furnishing and performing their work. Accordingly, Stantec can neither guarantee the performance of the construction contracts by the Contractor(s) nor assume responsibility for Contractor(s) failure to furnish and perform their work in accordance with the plans.
- Stantec will prepare a final punch list developed during a final field visit with the Contractor and Client representatives. Stantec will attend a final walk-through inspection to verify the final punch list modifications and corrections have been completed. We have assumed that only four (4) final inspection visits will be required and have allocated up to eight (8) hours for each visit for a total of 32 man-hours to perform these final inspection services.
- Any time spent or requested above what is noted above will be considered an additional service.

Task 560- Site Lighting Services

Site Lighting for the proposed project will be delivered for Site Lighting that will be provided by Duke Energy and Park Lighting that will be provided by City as noted below:

Site Lighting

Site lighting for streets, parking areas, and some areas of the park will be provided by the electric company, Duke Energy. Duke will be responsible for the engineering and photometric studies of the proposed lights. Based on the available selection of fixtures and poles from Duke, Stantec design team will coordinate location, type of the lights, lights layout, pole heights and selection of the fixtures. Stantec will assist and help manage these services with the CITY and Duke Energy.

Park Lighting

Stantec Landscape Architectural team with support from the electrical engineer will assist and help manage the park site lighting, including photometric studies and coordination with other project disciplines (primarily electrical and structural engineering). Site lighting design by the landscape architectural team is covered under Task 510-530 and this scope is for managing and coordination with Duke, the City, and other team members only including photometric studies for the Park Lighting.

Exterior Site Lighting Calculations for the project will be included. All site landscape and building exterior lighting calculations are included. Energy Code calculations are not anticipated to be required.

Stantec Landscape Architectural team will provide lighting layouts which will be used as bases for the lighting calculations and photometric studies. Stantec will provide manufacturer's highlighted fixture cut sheets for all fixture types. In addition, City or Park Department Standards or other requirements will be considered. For each of three phases of work in SD, DD and CD, Stantec Lighting Design will provide the following Professional Services:

- Light level calculations in AGI format and report. Stantec will follow IES guidelines for light level recommendations unless otherwise provided by CITY. Stantec will make recommendations for supplemental lighting if required.
- One overall site calculation and one update report are included for each phase.

Task 570- Fountain Design Services

Fountain Design services, including MEP and Structural Engineering associated with all fountain features for this task will be provided by Aquatic Design & Engineering, Inc. as a sub-consultant to Stantec with utility connection services support by Stantec. Proposed scope of services is attached.

SECTION 600- ARCHITECTURE AND INTERIOR DESIGN

Task 610 – Schematic Design Phase Services

The intent of the Schematic Design (30 percent) phase is to initiate the engineering, and advance the landscape architecture, architecture and interior designs for the improvements that have been refined as part of the previous Validation Phase. Based upon the current updated master plan and other supporting documents (Attachment "D"), we propose to continue the development of the project in the areas listed below. We are anticipating a total duration for this phase to be 8 weeks including interim review time. All components will be developed simultaneously and presented as a whole as opposed to as individual components.

Architectural Interior Design

Bandshell & Support Spaces

The architectural design for this phase will include refinement of the current design intent to include a canopy sized to accommodate 4,000 seats as well as the Stage and Support structure as shown on the attached plans. We will continue our assessment related to primary materials and the canopy system components. Deliverables include:

- Floor plans
- Roof plans
- Building sections
- Building elevations
- Updated digital modeling/rendering of the bandshell
- Initial space plan of interior design elements
- Character imagery and mood boards for VIP Room and Green Rooms

Plaza Shade Structure

The architectural design for this structure will include studies aimed to reducing the overall footprint of the upper shade structure as discussed in previous meetings. We will also look at alternatives to the design of this structure to determine if the architectural character is compatible with the new design of the seating canopy at the Bandshell. The lower level space is expected to remain very similar to what has already been developed. Deliverables will include:

- Floor plans
- Roof plans
- Building sections
- Building elevations
- Updated hand drawn or digital modeling/rendering of the Plaza and shade pavilion
- Initial material selection/color palette for the public restrooms.

Marina Facility

The architectural design is expected to be similar and consistent with the current plans. The interior design effort will include programming discussions to determine furniture and equipment needs. Deliverables include:

- Floor plans
- Roof plans
- Building sections
- Building elevations
- Initial material selection/color palette for the public restrooms. *[Note that the public restrooms for the project are expected to be the same for each of the public restrooms. We do not expect that each restroom will have it's own unique material/color palette].*
- Refined interior space plan indicating furniture and equipment.

Boathouse

The architectural design is expected to be similar and consistent with the current plans. Deliverables include:

- Floor plans
- Roof plans
- Building sections
- Building elevations

Playground RRs

The architectural design is expected to be similar and consistent with the current plans. Deliverables include:

- Floor plans
- Roof plans
- Building sections
- Building elevations

Pedestrian Bridge

Work during this phase would include the continued development of the architectural design intent for this pedestrian/bicycle bridge over Cleveland. We would incorporate this design into the proposed modifications of the upper Gateway Plaza. We also understand that there is some consideration that this element may be removed from the program. If this happens, the fees associated with this effort may be reduced or removed, depending on the timing of this decision. If we proceed with this, deliverables would include:

- Floor plans
- Sections
- Elevations

Ancillary Structures

This section is intended to capture the design of the various pavilions and other covered structures along the boardwalks by the Lake. We will study some options to determine the overall character and design intent for these components. At the end of this phase, we anticipate that a preferred solution is identified and that as we move to the following phases, a single design is selected to be repeated in multiple locations and will not result in unique structures for each of these buildings. Deliverables would include:

- Floor plans
- Sections
- Elevations
- Sketches/renderings of the various design options

Task 615 - 3D Visualization/Renderings

We anticipate that we will need to continue to produce the hand-drawn colored renderings as well as the digital modeling/renderings that have been used to date to depict various design elements. We have indicated in the sections above some specific

areas we are expecting to develop but also understand there will be others. We have provided an allowance for this task. Deliverables would include:

- Enhancement and development of the digital model to incorporate updated architectural design as well as accurate depiction of grading and other site conditions.
- The "Renderings" category includes visualization support for the design efforts as well as the specific deliverables listed below:
 - - includes 6 exterior digital renderings
 - - includes 1 interior digital rendering [VIP Room]
 - - includes 12 hand drawn renderings
 - - does not include Virtual Reality (VR) deliverable
 - - Does not include animations

Task 620 – Architecture Design Development

The intent of the Design Development (60 percent) phase is to advance engineering, landscape architecture, and architecture. Based upon the approved Schematic Design, and any adjustments authorized by the City in the program, schedule, or construction budget, Stantec shall prepare, for approval by the City, design development documents consisting of drawings and other documents to fix and describe the size and character of the project as may be appropriate.

It is our intent to have a structural system for the Bandshell canopy and potentially other building areas such as the Plaza Gateway structure identified by the end of the SD phase and will work with this fabricator to develop the design further.

As with the SD phase, we are proposing that the Design Development phase of the project is done comprehensively, allowing us to work on all parts simultaneously and to similarly present and review the project as a whole as opposed to a series of individual components.

As for the deliverables, each of the building components will have roughly the same list of items that will be prepared and presented for review during this phase. They include:

- Code analysis and Life Safety plans
- Floor plans
- Reflected ceiling plans
- Roof plans
- Enlarged plans of key areas [if necessary]
- Interior elevations of key areas
- Building sections
- Building elevations
- Primary wall sections
- Preliminary wall partition schedule
- Preliminary door and window schedule
- Interior and exterior material/color selections
- Interior Finish Key
- Furniture plans
- Preliminary Furniture selections/specifications

- Preliminary millwork sections/details
- Draft book of Technical Specifications
- 6 hand drawn renderings [either refinements to renderings generated in previous phase or new images]
- 1 digital rendering of the interior space of the VIP Room
- Enhancement and development of the digital model to incorporate updated architectural design as well as accurate depiction of grading and other site conditions.

Section 630- Architecture Construction Documents

Stantec will prepare the Construction Documents of the project buildings, in coordination with the CM. Preparation of the construction documents for each of the 2 project phases are anticipated. Phase 1 includes Bandshell but tracked as a separate Task.

Task 631 Architecture CD Phase 1

Task 632 Architecture CD Bandshell

Task 633 Architecture CD Phase 2

The scope of work for these tasks will be per the following paragraphs:

The intent of the Construction Documents phase is to advance engineering, landscape architecture, and architecture designs for the approved design development documents and any further adjustments in the Scope of quality of the Project or in the construction budget authorized by the City, Stantec shall prepare, for approval by the City, Construction Documents consisting of Drawings and Specifications (on plans) setting forth in detail the requirements for the construction of the hardscape elements of the project.

We understand that the project will be constructed in phases but propose that the Construction Documents for each component be developed and completed as part of this effort. Cost-savings and other efficiencies will be achieved as a result of this strategy.

As for the deliverables, each of the building components will have roughly the same list of items that will be prepared and presented for review during this phase. They will include the information necessary to bid, permit and construct the components as described above, with the exception of some delegated design components as indicated in the list of Exclusions/Qualifications.

In addition to the standard drawing deliverables, we also anticipate the development and production of a book of FF&E [Fixtures, Furnishings and Equipment] specifications that can be used by City Staff or the general contractor for the procurement of these items.

Finally, 6 digital renderings of the project will be developed as part of this phase.

Task 640 – Architecture Permitting Services

Stantec will prepare and submit required permit applications to appropriate regulatory agencies. It is assumed that the City will be the identified owner/applicant and issue any required permit fees directly.

Section 650- Architecture CA Services

The scope for post-design services can vary significantly based on the level of service requested by the Client, Construction Manager (CM), the Design Team, the construction schedule, and related issues.

Stantec's scope of work is based on an estimated total sixteen (16) month construction period of this project as the assumed level/extent of Architecture services during the construction phase of the project. Separate Tasks are anticipated for the 2 phases of the project. Phase 1 includes Bandshell but tracked as a separate Task.

Task 651 Architecture CA Phase 1

Task 652 Architecture CA Bandshell

Task 653 Architecture CA Phase 1

It is anticipated that the required services will be provided based on the project progress and needed expertise as per following paragraphs.

Standard services provided during this phase include providing responses to contractor's RFI's, reviewing submittals and shop drawings, attendance [via conference call] in bi-weekly Owner/Architect/Contractor [OAC] meetings and limited site visits [no more than 1 per month].

We also have included provisions to provide a written punch list at project completion to review the general conformance with the contract documents and completion of construction. Within a reasonable correction period, our office will perform a final walk-thru and review the status and completion of the punch list works item. It is the responsibility of the CM or GC to verify that these items are complete and should submit so in writing.

We will provide Record Drawings at project completion that includes the latest design drawings, bulletins and electronic sketches that occurred during construction. These will be delivered in PDF format.

Qualifications

- Interior finishes for all public restrooms and offices are anticipated to be the same for each building
- Ancillary structures [pavilions] on the lake are anticipated to be significantly equivalent in design intent - i.e., each will not be completely unique structures
- One set of specifications will be generated for the project as opposed to each structure with revisions/amendments as required for each phase of work.
- FFE selection/specification is included - but offices throughout are assumed to use the same furnishings

- No time included for assistance with bidding of contractors or subcontractors

Excluded Services:

The Professional Services that Stantec will provide under this Proposal/agreement include, and are limited to, those described above in the Scope of Services. All other services including, but not limited to, the following are specifically excluded, but may be authorized as Additional Services:

- Visual Animations
- VR production/simulations

If requested by the Client, Stantec may provide some of the above referenced “excluded” services as an amendment to this agreement.

SECTION 660-MECHANICAL, ELECTRICAL AND PLUMBING ENGINEERING

The MEP scope of work will cover the design of systems to support the following program areas:

1. Water Feature's power and water source
2. Exterior site, parking and landscape lighting power circuiting and control systems.
3. Pump room MEP design
4. Restroom MEP design
5. Canopy Walk lighting circuiting and control design
6. Pedestrian Bridge lighting circuiting and control, drainage, and fire protection designs
7. Boat House MEP design
8. Marine Building MEP
9. Gateway Pavilion MEP Design
10. Bandshell MEP design inclusive of Power and AV connection points Lighting and sound systems in the Green

The following services will be provided for each of the disciplines:

Mechanical

- Air-Conditioning: HVAC system design will be based upon air cooled packaged rooftop or split system air conditioning systems.
- Outside Air Systems for (public corridors, front-of-house areas, back-of-house areas).
- Toilet Exhaust will be provided for the toilet rooms in the public areas and amenity areas.
- General Exhaust Systems will be provided for the MEP Rooms and Back-of-House Areas.
- Space Conditions: We will coordinate the mechanical room sizes and locations with the owner and architect, including vertical shafts and offsets for ducts and piping.
- We will provide floor plans showing ducts and piping. Ductwork drawings will include volume dampers, motorized dampers, fire dampers, and fire-smoke damper locations. Double-line ductwork shall be shown in mechanical rooms, for major ducts, and in areas where tight coordination is required with other trades.
- We will provide air riser diagrams, water riser diagrams, equipment schedules, flow diagrams, details, etc.

- We will work directly with a BMS vendor to develop the BMS specifications and sequence of operation. The BMS vendor awarded the project will provide the control wiring diagrams.

Electrical

- Electric Service: Provide electric load letter to the utility company and coordinate new Point of Entry (POE) to the site.
- Transformers or Vault: By Utility Company. We will coordinate this work with the utility company and assist the architect and structural engineer with locations. We will provide our loads for coordination.
- Metering: Utility Direct Metering and/or Sub-Metering as applicable. Separate utility meters for commercial retail tenants. This decision needs to be made prior to the DD phase.
- Space Conditions: We will coordinate the Main Switchgear Rooms, Emergency Switchgear Rooms and satellite electrical room sizes and locations with the owner and architect.
- Distribution: Design will include new electric services switches, current transformer cabinets, switchgear, distribution boards, distribution panels, and panels for a complete electric distribution system.
- Lighting: Lighting-circuiting drawings for the lighting design and layout as shown on reflected ceiling plans and designed by the lighting designer or the architect. We will prepare the lighting layout and specifications for the mechanical-electrical rooms, back of house areas, and storage rooms. Emergency lighting will be integral with the specified light fixtures, or concealed and surface mounted battery packs with heads, or connected to the emergency generator.
- Receptacles: Receptacle-circuiting drawings for the receptacle design and layout as shown on electric/telephone plans provided by the architect. We will assist the architect with placement and location.
- Low-Voltage Systems: We will indicate line voltage, empty conduits, backboxes and stub-ups for HVAC controls, telephone, data, audiovisual and security systems if requirements are specified. Layout of low-voltage outlets and devices shall be indicated on the architectural backgrounds. We will coordinate our design portion with the telecommunication, security, and audiovisual consultants.
- Equipment-circuiting drawings for the mechanical, plumbing and fire protection equipment designed by this office.
- Emergency Power System: Emergency generator design if required or desired as part of the overall program, automatic transfer switches, emergency distribution panels, and associated feeders and branch circuiting.

Plumbing

- Utility Services: Coordinate new Point of Entry (POE) for the plumbing utilities as outlined below.
 - Domestic Water Service: Designed to 5 feet outside of the buildings. The civil engineer will design a new water service(s), backflow preventer and meter assemblies.
 - Gas Service (if required): Provide gas load letter to the utility company and coordinate new Point of Entry (POE) to the building. New utility gas meters as required.
 - Sewer/Storm: Design to 5 feet outside of building. Our fee assumes that there is a Civil Engineer on the project to perform these services, as well as the storm water calculations, and underground foundation drainage design.

- Metering: Utility Metering and/or Sub-Metering as applicable.
- Space Conditions: We will coordinate the room sizes and locations with the architect/owner for the water service(s), water booster pumps, sewage ejectors pumps, gas meters and gas booster pump, including vertical shafts and offsets for piping.
- Domestic Cold Water: Pumps, suction tanks, filtration system, pressure reducing valves, hose bibs, and complete distribution risers and piping.
- Domestic Hot Water: Hot water generation system, including pumps, storage tanks, circulating pumps, and complete distribution risers and piping.
- Sanitary & Vent: House trap, sewage ejector pumps, and complete distribution risers and piping.
- Storm: House trap, sump pumps, roof and terrace drains, storm water leaders, and storm water detention system.
- Gas: Gas booster pump if required, and complete distribution risers. Separate gas meters and piping for emergency generator, boiler, and retail commercial tenants.

Fire Protection

- Fire Water Service: Coordinate new Point OF Entry (POE) with the civil engineer. Provide loading information to the civil engineer for them to prepare cross-connection application for submission for new water service(s), backflow preventer and meter assembly.
- Space Conditions: We will coordinate the Fire Pump Room size (if required) and location with the owner and architect, including vertical shafts and offsets for piping.
- New pumps, gravity tanks, risers, floor control valves, riser control valves, and distribution piping for standpipe and sprinkler systems, hose cabinets, and Siamese connections.
- Complete sprinkler mains, branch piping and sprinkler heads throughout the building.

Fire Alarm

- New fire alarm control panel, central station, fused disconnect switches (power service requirements), data gathering panels, and new risers (power, data, and communication).
- New fire alarm devices for amenity areas, back-of-house areas and MER's.
- We will prepare the required floor plans, riser diagram and details required for a complete design.

MEP services will be delivered under the following Tasks.

Task 661- MEP Schematic Design

- Establish project goals, objectives, schedule, layout, and image.
- Outline design criteria and prepare system design description (Schematic Design Narrative).
- Code analysis.
- Selection of building systems.
- Preliminary equipment sizing.
- Identify preliminary space requirements (MER's and Roof) for major equipment.
- Identify preliminary space requirements for major shafts (ducts, piping, conduits).
- Issue drawings for coordination with the project team.

Task 662 MEP Design Development Phase

- Utilities for building services.
- Contact Confirm preliminary equipment sizing.
- Confirm preliminary space requirements with architectural design.
- Coordinate major ductwork, piping, and conduit routing.
- Plans indicating major equipment, electrical distribution, panels, ductwork piping, etc.
- Preliminary review of plans with local code officials and fire department (code compliance).
- Develop typical details.
- Develop preliminary riser diagrams.
- Issue drawings for coordination with the project team and for preliminary budget pricing by the Construction Manager.

MEP Construction Documents

Stantec will prepare the MEP Construction Documents of the project buildings, in coordination with the CM. Preparation of the construction documents for each of the 2 project phases are anticipated. Phase 1 includes Bandshell but tracked as a separate Task.

Task 663 MEP CD Phase 1

Task 664 MEP CD Bandshell

Task 665 MEP CD Phase 2

The scope of work for these tasks will be per the following paragraphs:

- Stantec will commence work in the phase after receiving architectural backgrounds that have allocated space for all MEPS equipment and shaft space for all vertical risers (ducts, piping, conduit, etc.). Coordination of horizontal components will be completed during this phase.
- On occasion, Filing Drawings to the Department of Buildings are expedited at the request of the owner to assist with the overall project schedule. However, we will not submit our drawings DOB unless they are a minimum of 75% complete. STANTEC will not submit so called "dummy" sets to the DOB.
- We will sign/seal copies of the following contract documents prepared by our office for filing by others:
 - Mechanical, Plumbing, Sprinkler, Standpipe, Fire Alarm, and Energy Compliance.
 - Separate filing packages for a new boiler plant and new generator when required as part of the project.
- Bid Documents are considered 100% complete in terms of the scope of work, but not fully coordinated with the entire project team. We will commence bid documents when provided with the final approved architectural layouts complete with reflected ceiling plan, power and telephone plan, furniture and equipment layouts, and all mechanical and electrical system requirements and locations.
- Construction Documents include incorporating the final comments from the project team, items that arise during the bid process, suggestions from the awarded contractor, and coordinated between the architect and sub-consultants.

- The project will be designed to comply with the FL Energy Code as outlined below, although it is acknowledged and agreed that code officials' interpretations cannot be warranted or guaranteed. When a LEED Consultant is involved preparing an Energy Model, then the work outlined below is excluded from our scope of services.
 - HVAC: We will prepare the necessary documentation, using the prescriptive path, and include the calculations in our filing set. Building simulation/energy modeling is not included in STANTEC's basic services.
 - Lighting: We will require the architect and/or lighting consultant to provide us with the lighting calculations. We will review, confirm, and include the calculations in our filing set. If the calculations exceed the Code limit, the lighting designer will be responsible for making the necessary adjustments to the lighting plan to meet Code and resend us the revised calculations. We have included one (1) revision as part of our basic services. If the calculations exceed the Code limit for a second time, then We will need to be compensated for our additional time and services.
 - Envelope: The envelope portion is excluded from our basic services. The architect and/or façade consultant should complete this.
- Book Specifications would be prepared for all areas of work defining quality of equipment, performance, and operational requirements, acceptable sources, and any other parameters to fully delineate the project needs.
- Bid and Construction Documents shall include engineering floor plans, on-drawing specifications, notes, details, schedules, & risers, based on the demolition, alteration, relocation & new scope of work.
- We are to be provided with one master CADD background from the Owner or Owner's Architect which incorporates all sub-consultants work including but not limited to Lighting Consultant's lighting fixture layout, Interior Designer's receptacle/telephone layout, AV consultant's device layouts, Water Feature Consultant's device layout, Security Consultant's device layout. CADD file management of sub-consultants is not included.
- We are to be provided with sub-consultants work product in a timely fashion and scope of work to be complete and clearly identified. Multiple drawing submissions and re-engineering to accommodate sub-consultants incomplete work product is not included and will require additional fees.
- We will commence with Amenities/Fit-Out Construction Documents once all information and design criteria has been fully established, submitted, incorporated into Architectural Backgrounds, and approved by Ownership.

Task 666- MEP Permitting

Stantec will respond to necessary MEP comments from the City Building Department or Peer Reviewer. We have included (1) in-person meeting and up to two (2) Skype meetings as necessary during this phase.

MEP Construction Administration

The scope for post-design services can vary significantly based on the level of service requested by the Client, Construction Manager (CM), the Design Team, the construction schedule, and related issues.

Stantec's scope of work is based on an estimated total sixteen (16) month construction period of this project as the assumed level/extent of MEP Engineering services during the construction phase of the project. Separate Tasks are anticipated for the 2 phases of the project. Phase 1 includes Bandshell but tracked as a separate Task.

Task 667 MEP CA Phase 1

Task 668 MEP CA Bandshell

Task 669 MEP CA Phase 2

- Review shop drawings within ten (10) business days. However, this period is based upon an agreed shop drawing schedule provided by the Construction Manager.
- Respond to Request for Information (RFI's) within five (5) business days.
- Review and advise the client regarding Change Order Requests as submitted by the contractor for their legitimacy and general accuracy of scope.
- Periodic Field Observation. Field observations will be for determining general conformity of the work with the contract plans and specifications and will not include review or approval of the contractor's construction, means and methods of construction, or safety procedures.
- Develop Final Punch lists. We will perform a written punch list at project completion to review the general conformance with the contract documents, completion of construction and engineering systems work. Within a reasonable correction period, our office will perform a final walk-thru and review the status and completion of the punch list works item. It is the responsibility of the CM or GC to verify that these items are complete and should submit so in writing.
- We will provide Record Drawings at project completion that includes the latest design drawings, bulletins and electronic sketches that occurred during construction.
- Review As-Built Drawings prepared by the sub-contractors.
- Stantec MEP team will attend up to 12 (twelve) construction meetings, contractor coordination meetings, OAC meetings, BIM coordination meetings and field observation meetings during this phase. Additional meetings will be billed on an hourly basis.

MEP Assumptions

- Electrical System Designs as noted, but not limited to:
 - Uninterruptible Power Supply (UPS) Systems.
 - Central Battery System for architectural lighting.
 - Dimming Systems (i.e., Lutron, Crestron, etc.).
 - Recalculations of feeders to use Aluminum conductors, in lieu of Copper conductors.
- Fire Protection System Designs as noted, but not limited to:
 - Temporary Sprinkler and Temporary Standpipe Systems.
 - Pre-action Systems
- Telephone, Data, Internet, Cable TV, Security, and Intercom Design Services.
- LEED MEP Design Services and LEED Consultant Services.
- Building Simulation/Energy Modeling for the building's Envelope, HVAC, and Lighting
- Commissioning/Testing services, witnessing commissioning, and factory testing of equipment.
- Special Filing Requests:

- Refiling, repackaging, resubmitting drawings and DOB forms, and additional work caused by expeditor errors, omissions and/or delays to the project.
 - Preparations of drawings, documents, and forms for special variance requests (DOB & Fire Department) to achieve the owner/architect project requirements and goals.
- Project Schedule Delay:
 - If the project during the design and/or construction phase is placed on hold or suspended for longer than a two (2) month period, then STANTEC will be compensated for loss of productivity.
 - If the project during the design and/or construction phase is placed on hold or suspended for longer than a six (6) month period, then STANTEC will renegotiate the contract fee based on the current market conditions or have the right to terminate our contract.
- Construction Phase:
 - Review of shop drawings at the construction site for quick turnaround.
 - Expedited construction schedules and agreements between the Owner and the Construction Manager or General Contractor
 - Design work necessary to accommodate unanticipated changes in the construction sequence and/or temporary construction.
 - Three (3) or more punch lists due to contractor's incomplete construction.
- Separating engineering trades or additional design packages. We have allowed for all trades to be issued under one (1) design package for bid.
- Where there are approved changes to work already completed, changes in scope, or alternate designs.

MEP Exclusions

- Interior lighting design, site lighting design and foot-candle calculations for normal and/or emergency lighting.
- Satellite Dish, Audiovisual, and Acoustical Engineering Design Services.
- Computer Fluid Dynamics (CFD) Analysis for HVAC systems.
- Kitchen Hood and Associated Fire Suppression Systems.
- Structural engineering design and civil engineering. Sewer and storm water site work will be by the civil site engineer and brought to within 5'-0" of the building.
- Meeting attendance at sub-contractor interviews prior to award and sub-contractor meetings during construction.
- Obtaining or securing construction permits.
- Review and validation of contractor pay requisitions.
- Review of shop drawings that:
 - Have not addressed previous shop drawing comments.
 - Are not based on STANTEC's design drawings.
 - Are Coordination Drawings (vertical and/or horizontal). This is the responsibility of the CM or GC.
- It is the responsibility of the electrical contractor, in conjunction with the fire alarm vendor, to prepare the as-built fire alarm riser, fire alarm matrix, and functionality

statement on their title block. STANTEC will review for compliance and accuracy and will sign/seal for final inspection.

- All Special Inspections, listed in Florida Building Department, including, but not limited to, those for the Mechanical, Sprinkler and Standpipe Systems. A third-party licensed engineer that is registered to perform such inspections will need to be retained for these services directly by the owner.
- Updating of filing drawings to represent as-built conditions for filing changes is excluded when changes were made as part of value engineering, unless STANTEC is specifically compensated for that VE process. In all cases where updates are required to filing drawings based on actual installation, contractor shall provide CAD drawings of as-built conditions and all required information for such.
- Special design relating to fireplaces, outdoor gas heaters, fire-pits, water features, etc. The entire installation of such systems (including all required control wiring, fans, venting systems etc.) shall be treated as a single appliance by STANTEC. As such, STANTEC will provide a single gas and power connection as identified by the equipment manufacturer.
- Short Circuit/Arc-Flash/EMF Study and Circuit Breaker Settings.
- Preparation of Operating & Maintenance manuals and the training of personnel for operation, maintenance & systems start up.
- Preparing to serve or serving as a consultant or witness for the Client or Owner in any litigation, arbitration, mediation, public hearing or other legal or administrative proceeding involving the Project.

SECTION 670- STRUCTURAL ENGINEERING

Task 671 Structural Schematic Design

During this phase we will collaborate with the design team and city personnel to review project requirements and assist the designers by providing them with efficient structural design criteria. We can propose structural framing options which will meet the building's functions and work with your team to analyze which option best fits the needs of the building. Stantec will provide or review a boring plan, review the Geotechnical Report and collaborate with the Geotechnical Engineer on project requirements. We will also review documentation of existing structures which may impact our design, such as existing retaining walls in the vicinity of the Entry Plaza building. Our deliverables include:

- Structural Schematic Design Narrative outlining the structural systems for each component of the project that falls within our scope.
- We have included one (1) in-person meeting and up to four (4) Skype meetings as necessary during this phase.
- The structural design of the following components of the project, and their corresponding phase of construction, are included in the Structural Scope of work:
- Entry Plaza building structure and the associated grand stairs and ramp
- Marina Office / Restroom building
- The Bandshell building
- Pre-engineered/Prefabricated Pedestrian Bridge over Cleveland St.
- Lake Piers (2 locations assumed)
- Lake Bridges/Boardwalks (3 separate structures assumed)
- Restroom building (2 locations assumed)
- Dock Master building expansion
- Pump House building / Vault

- Garden Boardwalks
- Miscellaneous cast-in-place concrete or CMU site structures such as retaining walls, stairs, planters, stem walls, benches or podiums.

Foundation-Only Scope:

There are other structural elements of the project which would be designed, detailed and constructed by a specialty fabricator. Our Structural Scope for such elements would include the design and detailing of the foundations only – the structures themselves and their attachments to the foundations are the responsibility of a Florida-licensed Delegated Engineer. We will provide foundation designs only for the following components of the project:

- Amphitheater canopy
- Slide Platform
- Canopy Walk
- Playground shade structure
- Various artwork base supports
- Picnic Shelters (3 locations assumed)

While these structures are the responsibility of a Delegated Engineer, our scope will include some limited assistance in the initial design development of these components. Our scope also includes a structural review of the final designs. Design reactions for these elements shall be provided by the Delegated Engineer to perform the subsequent foundation designs.

Task 672 Structural Design Development

During this phase we will analyze the framing and finalize sizes and configurations for all structural components of the project that falls within our scope. Enough information will be provided for the Owner / Contractor to obtain preliminary pricing. Our deliverables include:

- Progress sets of Design Development Drawings
- We have included (1) in-person meeting and up to six (6) Skype meetings as necessary during this phase.

Refer to SD Task for a summary of the structural components in our scope of work.

Structural Construction Documents

Stantec will prepare the Structural Engineering Construction Documents of the project buildings, in coordination with the CM. Preparation of the construction documents for each of the 2 project phases are anticipated. Phase 1 includes Bandshell but tracked as a separate Task.

Task 673 Structural CD Phase 1

Task 674 Structural CD Bandshell

Task 675 Structural CD Phase 2

The scope of work for these tasks will be per the following paragraphs:

During this phase we will finalize the structural documents for permitting and construction based on an approved Design Development phase. Our deliverables include:

- 100% Construction Documents

Refer to SD Task for a summary of the structural components in our scope of work.

Task 676 Structural Permitting

We will respond to necessary structural comments from the City Building Department or Peer Reviewer. We have included (1) in-person meeting and up to two (2) Skype meetings as necessary during this phase.

Structural Construction Administration:

The scope for post-design services can vary significantly based on the level of service requested by the Client, Construction Manager (CM), the Design Team, the construction schedule, and related issues.

Stantec's scope of work is based on an estimated total sixteen (16) month construction period of this project as the assumed level/extent of Structural Engineering services during the construction phase of the project. Separate Tasks are anticipated for the 2 phases of the project. Phase 1 includes Bandshell but tracked as a separate Task.

Task 677 Structural CA Phase 1

Task 678 Structural CA Bandshell

Task 679 Structural CA Phase 2

The Structural Engineer's role during this phase is to observe and comment on the structural frame construction progress and to promote proper implementation of our design.

Our work during this phase will include:

- Structural Engineer has included five (5) formal site visits in our services
- Timely communication with you on all construction issues requiring Owner involvement, interpretation, or resolution
- Distribution and written follow-up of observations made on-site and any field interpretations or recommendations issued verbally to the general contractor
- Development, as required, of clarification structural sketches (SSK's) to address specific field conditions and assist in the timely progress of the general contractor
- Review of structural shop drawings for components included in our documents.
Multiple reviews greater than two (2) shall be provided as a Change of Services

Structural Assumptions:

- The project design would occur as a single phase, however bidding, permitting and construction could occur as separate phases.
- Framing of the Marina Office/Restroom, Dock Master Building, Restroom Buildings and Pumpouse structure are assumed to be one-story load bearing masonry with prefabricated wood trusses.

- Framing of the Bandshell Building is assumed to be one-story load bearing masonry with certain components of cast-in-place concrete or structural steel. The roof is assumed to be steel bar joists and metal deck.
- Framing of the Entry Plaza Building is assumed to be primarily cast-in-place concrete with the possibility of some structural steel or precast concrete elements.
- Ground-floor slabs are assumed to be slab on grade and not structural and/or hydrostatic.
- Based upon the Master Plan submittal, we assume that all foundations would be shallow footings with the exception that the amphitheater roof, entry gate building and pedestrian bridge would be on piles. The designs of specialty piles, such as pin piles, micropiles, helical piles would be the responsibility of the pile installer. Precast or prestressed piles would be designed to FDOT standard.
- The foundation designs will be in accordance with the recommendations from a Geotechnical Report.
- Marine structures at the intercoastal waterway, such as sea walls, docks or similar, are not part of this section of this proposal.
- The Renovation to the Dock Master Building would not be considered a "substantial structural alteration" or one in which the entire existing building would need to be brought into accordance with current Code.
- Lake Pier and Lake Bridge design will involve a fixed system comprised of wood piles, wood framing and wood (or composite) decking and railing system
- Shelters shown on Piers in the master plan shall be pre-engineered structures of similar design to the wooden piers that can be integrated into the structural support members for the piers without significant change to the design of the piers.
- The lake piers and bridges will be designed assuming a depth of no greater than 15' below control elevation.
- There will be no light poles attached to the wooden piers or bridges that require additional structural support design.
- Picnic Shelters shall be pre-engineered structures of similar size, shape and material nature. Stantec shall coordinate with the manufacturer but shall only provide the foundation design for the structures.
- Pedestrian Bridge shall be a pre-engineered steel structure of a standardized design made by a national manufacturer. Stantec shall coordinate with the manufacturer but shall only provide sub-structure and foundation design for the bridge.
- Pedestrian Bridge shall be of consistent width throughout the span and is expected to be a straight single span. Alternately, the bridge may be a series of three straight spans with break points at intermediate support piers.
- The Pedestrian Bridge is not anticipated to be covered or have a roof.
- The Pedestrian Bridge is not expected to collect stormwater off the deck.
- The Pedestrian Bridge is not expected to be designed for vehicular load, except for small maintenance vehicles such as golf carts.
- The Pedestrian Bridge will not have an elevator, stairs or immediate ramp system. Ramps and elevators are included elsewhere on site for transition back to grade.

Structural Exclusions

- Services beyond the Scope of Services described in this proposal.

- As-built drawings (provided by General Contractor and sub-contractors) – Structural Engineer record as-designed drawings and electronic CAD files are included in our basic services.
- Value Engineering services and documentation revisions following the GMP Set.
- Cost estimating services.
- Multiple bid or phased permit drawings not identified in the Proposal above.
- Special Inspections.
- Design of site structures or their foundations for elements not identified such as fences, sidewalks, water features, signage, etc.
- Crane foundation and structural design modification to accommodate placing boom.
- Special studies including wind tunnel testing, etc.
- The design and detailing of other load-resisting elements that are typically the responsibility of a Delegated Engineer, such as steel stairs, railings, storefront, exterior light gage, specialty aluminum canopies or trellises, and mechanical unit supports or tie downs.
- Design and Shop Drawings for shoring, bracing, and formwork, etc.
- Production of shop drawings for any structural elements, such as structural steel, reinforcing steel, post-tensioning, etc.
- Design and detailing of amphitheater canopy, slide platform and canopy walk, playground shade structure, picnic shelter, tensile fabric structure, prefabricated pedestrian bridge structure, stacked block retaining wall and any other structure which is intended to be designed, detailed, fabricated and erected by a specialty contractor.

Section 680- Architecture Associated Services

The following tasks will be provided in association with the Architecture services.

Task 681- Theater Design Services

Theater design services will be provided by Schuler Shook as a sub-consultant to Stantec with architectural, electrical and structural support by Stantec. Proposed scope of services is attached.

Task 682- Acoustic Design Services

Acoustic design services will be provided by Siebein Associate, Inc. as a sub-consultant to Stantec with architectural, electrical and structural support by Stantec. Proposed scope of services is attached.

Task 683- Life Safety Services

Life Safety services will be provided by SLS Consulting, Inc. as a sub-consultant to Stantec with architectural support by Stantec. Proposed scope of services is attached.

SECTION 700- LIBRARY RENOVATIONS

Overview

- The proposed project is expansion of the existing 98,500± library building located on an approximately 6.5 acre parcel of land owned by the City of Clearwater, located at the southwest corner of the intersection of Drew Street and Osceola Avenue, in Clearwater, Florida. Project expansion area identified on Feasibility Study graphic(s) supplied by Project Architect.
- It is understood that the Owner (City of Clearwater) desires to renovate the existing Downtown Main Library building, open spaces, and streetscape/plaza areas.
- Limits of the site improvements are to back of the sidewalks of N. Osceola Avenue on the eastside, north building face on the northside, back of future Bluff Walk of Imagine Clearwater on the westside, and back of the curb of the drop off lane on the southside. As part of the Imagine Clearwater, the south area will be modified separately.
- The Client has identified the Owner's construction budget for the open spaces, and streetscape/plaza areas improvements to be approximately \$150,000. Stantec scope of services is in support of the Project Architect (Williamson Dacar & Associate) are based upon this amount. Stantec will reevaluate the proposed scope should the construction budget be increased by the Owner or Client.
- The following scope of services are proposed as per Client's request and based on the Feasibility Study developed by Williamson Dacar & Associates.

Task 710 – Library WDA Architecture

Architectural and engineering design services for the renovation of the City of Clearwater Main Library will be provided by Williamson Dacar & Associates SLS Consulting, Inc. as a sub-consultant to Stantec with Civil Engineering and Landscape Architecture services by Stantec. Proposed scope of services is attached.

Task 720 – Library Civil Engineering

Pre-Application Meetings

Stantec will set-up and attend pre-application meetings with the City of Clearwater in an effort to determine the design and review/approval requirements for civil/site engineering aspects of the project.

Initial Investigations/Schematic Civil Design

Stantec will perform initial investigations and schematic/preliminary design services for the proposed civil/site engineering sitework improvements. This will be for the purpose of understanding existing site conditions, defining the nature and extent of the improvements and assisting the project team in developing a refined site plan layout and establishing the project phasing. This will include:

- Sidewalks and open areas – Review the preliminary layout of the sidewalks, connections to existing sidewalks, and ADA accessible routes for the project, with consideration to the City requirements.

- Grading – Establish, on a preliminary basis, the approximate proposed grades of the proposed improvements (based on the best available information).
- Stormwater/Drainage – It is assumed that there will not be any required improvements of the site stormwater system. It is also assumed that roof drainage of the expansion areas will be discharge similar to the existing system and site improvements will not be required,
- Water and Sewer – It is assumed that water and sewer improvements will be internal to the building, as required, and will not require any improvements outside of the footprint of the building.
- Franchise Utilities – It is assumed that all franchise utilities (power, communication, and gas) improvements will be internal to the building, as, required, and will not require any improvements outside of the footprint of the building.

Design Phase Services

Stantec will perform design services for the civil/site improvements based on the preliminary plan approved by the Client. Plans will be prepared in an AutoCAD; Version 2017 format and digital CAD files will be provided to the design team as appropriate. Design activities will also include preparation of the engineering analysis and/or calculations to support the design and construction plans. Technical notes and material specifications for the site/civil improvements will be provided on the plans.

These services will be performed for the following elements of the project site development:

Civil/Site Plans

Stantec will prepare civil construction plans for the various on-site improvements as per approved preliminary plan. All construction drawings will be prepared in accordance with local development criteria for the City of Clearwater standards. Plans will be prepared on twenty-two inch by thirty-four inch (22"x34") sheet size at an appropriate scale. All review plan submittals will be distributed on eleven inch by seventeen inch (11"x17") sheet size.

Project Meetings and Coordination

Stantec will attend and participate in up to two (2) web-based calls and one (1) in person meeting during the pre-design phase.; additional meetings during the final design phase will be considered an additional service.

Civil/Site Permitting

Permit Applications and Initial Submittals

Stantec will prepare the permit application, plans and supporting documents for submittal to the appropriate agencies or departments. Stantec will set-up and attend submittal conferences with permitting agencies as appropriate. Submittals for approval will be made to the following agency:

- City of Clearwater – Flexible Development Application

- Southwest Florida Water Management District (SWFWMD) – No permit required notification
Client will be responsible for all application, connection and impact fees.

Agency Meetings, Negotiations and Re-Submittals

Stantec will meet and negotiate with agency representatives having concerns during the review/approval process. Stantec will complete additional design revisions based on the agreements reached during the agency meetings and resubmit the plans and supporting documents for final approval. It is assumed this Scope and Fee includes up to one (1) resubmittal, if required, to City of Clearwater. Additional resubmittals due to design changes by project design team and/or any other reasons beyond the control of Stantec will be considered an additional service.

Construction Phase Services

Stantec will provide limited construction phase services for construction of the civil improvements of the project.

Pre-Construction Conference- Stantec will prepare for and attend one (1) pre-construction meeting for the project. Contractor will be responsible to schedule this meeting and invite the attendees.

Shop Drawings and Submittals- Stantec shall review shop drawings, results of tests and inspections, and other data related to site development, which the Contractor is required to submit. The acceptability of substitute materials and equipment proposed by Contractor will be reviewed and submitted to the entities that may be affected by such a modification. It is the Contractor's responsibility to provide all documentation required to prove the substitute material in the same or better than the material specified. Significant changes/modifications, or special negotiations with the agencies are not included. It is assumed all submittals will be made in a timely manner allowing Stantec a minimum of one (1) week of review time. It is also assumed that no more than twenty-five (25%) percent of submittals will require re-submittal. Stantec will coordinate shop drawing review with the city of Clearwater. Mix designs for asphalt pavement, concrete pavement, or concrete curbs will be reviewed by the Client's geotechnical engineering consultant.

Limited Construction Observation- Stantec staff will conduct field visits to monitor general progress and compliance of the work with the approved plans and specifications. This will include observation of the site related improvements. It is anticipated that construction observation visits will occur at appropriate intervals during the active sitework construction period of sixty (60) days. This scope of services anticipates that construction observation visits will be up to a maximum of three (3) construction observation site visits. Stantec will prepare a field observation report including observations of work in progress, deviations from the approved construction plans and permit conditions, results of testing witnessed and any other pertinent information. The field observation reports will be submitted to the Client and the Client's contractor for review and use.

Stantec will not, during the site observation visits or as a result of such observations of the Contractor(s) work in progress, supervise, direct or have control over Contractor(s) work nor will Stantec have authority over or responsibility for means, methods, techniques, sequences or procedures of construction selected by the Contractor(s) to comply with laws, rules, regulations, ordinances, codes or orders applicable to Contractor(s) furnishing and performing their work. Accordingly, Stantec can neither guarantee the performance of the construction contracts by the Contractor(s) nor assume responsibility for Contractor(s) failure to furnish and perform their work in accordance with the plans.

Assistance During Construction- Stantec will respond to questions from the contractor during construction. Stantec will respond to official requests for information (RFI) from the contractor regarding sitework issues. Stantec will attempt to clarify the intent of the plans and specifications, provide interpretation of the plans, answer questions from the general contractor and the Client's construction manager. Attending regular progress meetings in the field are not anticipated, but can be provided as part of this scope of services, if requested by the Client.

Final Inspection- Stantec staff will conduct one (1) final site visits to observe specific project Infrastructure improvements.

Task 730 LIB Landscape Architecture Services

Stantec shall provide design services for the landscape architectural components of the Downtown Main Library in the City of Clearwater, Florida. The redevelopment of the existing facility includes as is limited the following areas as identified on the feasibility study diagram.

- North Library Access/Back of House
- Future Restaurant/Expansion Area
- Northwest Outdoor Terrace
- West Façade Green Area
- South Library Entrance Plaza
- Osceola Avenue Streetscape
- East Library Entrance

Design services for Schematic Design, Design Development and Construction Documentation are included as part of this scope. The final submittal will be the 100% Construction documents for review, permitting, and Construction.

Drawings will include hardscape treatments, site furnishings, construction detailing, tree mitigation/preservation (if necessary), landscape planting plans, as well as irrigation system design. More detailed information in scope is listed below in the associated tasks. Exclusions for this Scope of Services include the following list below. These services can be incorporated into the Scope as an additional service at Client request.

- Photometric Design and Plans
- Electrical Design and/or Engineering
- Structural Design and/or Engineering
- Rooftop Deck Level Design
- Signage/Wayfinding Design
- Professional renderings or 3-D Models
- Book Format Written Specifications

- Specialty Subconsultants (i.e. Fountains, Pools, Lighting)
- Weekly or Routine Team meetings
- Cost Estimating

Schematic Design (30% Design Phase)

Based on the Feasibility Study, the Schematic Design phase shall help to establish a vision for the proposed landscape (hardscape and softscape) for the Project. It is anticipated that these studies, illustrative in nature, will advance the overall design and help establish design direction for the project, conveying location, character and quality of landscape to be achieved. As part of this work Stantec will perform and is limited to the following tasks:

- Finalize Program Elements for each plaza/terrace space
- Prepare illustrative plan drawings, elevations, sections, and three-dimensional sketches to further detail and communicate character, scale, and spatial intent of park amenities
- Develop sketch details or utilize reference imagery and photography to illustrate the key components and material personality of the built environment
- Create a preliminary materials palette for the hardscape and softscape throughout the project

Design Development Plans (60% Design Phase)

With approval of the schematic design, Stantec will begin Design Development (DD) studies for the Landscape Architectural portions of the work. The Design Development plans and sketches will further define the character and essentials of the project, including a preliminary selection of materials. As part of this work for each component area of the overall park Stantec will perform and is limited to the following tasks:

- Prepare an initial Tree Protection/Removal Plan (if necessary)
- Develop a Hardscape Plan depicting proposed materials, components, and site furnishing locations
- Establish an initial Grading Plan for elevations, slopes, and level changes
- Further refine enlargement drawing elevations, sections, and three-dimensional sketches to communicate finish, scale, and spatial intent.
- Prepare a General Planting Plan identifying location of trees, shrubs, vines and groundcover.
- Preparation of DD level details, sections, and elevations

Construction Documents (90% - 100% Design Phase)

Based upon the approved Design Development Plans, Stantec shall prepare the necessary plan drawings, details, materials schedules, and technical specifications to permit and construct the landscape architectural elements of the Imagine Clearwater Waterfront Park Project. The following points clarify the extent of the landscape architecture task for this phase of services:

- Update the Tree Protection/Removal Plan (if necessary)
- Further Define the Hardscape plans depicting proposed materials, components, and site furnishing locations
- Prepare construction level details for all hardscape components
- Develop a Materials Schedule for Hardscape materials and finishes

- Assist the Civil Engineering Team in the development of all fine grading and review of any grading plans depicting elevations, slopes, and level changes
- Prepare plan enlargement drawings, elevations, sections, and three-dimensional sketches to communicate finish, scale, and spatial intent.
- Prepare detailed Planting Plans and Plant Schedule showing size, location, quantity, and type of all landscape material, including common and scientific names
- Prepare planting details outlining planting procedures, and staking, guying, etc.
- Develop an irrigation plan that comprehensively defines all irrigation infrastructure requirements, locations, and sizes for all components, and plan layout for each irrigation zone
- Prepare irrigation construction details for the plan components above

Clarifications

1. The Client as coordinated by the project Architect will provide the following:
 - The services of a geotechnical engineering consultant registered in the State of Florida to provide testing during construction
 - All submittal, application, or review fees required by governmental agencies
2. The following services are not included in the Scope of Services of the Library Renovation Tasks of Stantec (720 & 730):
 - Design and permitting of any off-site improvements not specifically included herein
 - Preparation of applications for rezoning, land use amendments, or variances except as specifically described herein
 - Services associated with hazardous materials
 - Preparation of technical specifications other than those specifications shown on the construction plans or as noted in this Scope of Services
 - Preparation of bid package
 - Preparation of an application for an irrigation water meter
 - Construction plans or permit revisions, required as a result of program or design changes made by others after the Stantec work effort has commenced and/or after Stantec has made submittals to the agencies. This includes overall site plan or program changes.
 - Preparation of colored renderings, special graphics, or exhibits for presentations to any governmental agency or third party
 - Permits that are not specifically listed in the Scope of Services
 - Out-of-town travel beyond the Tampa Bay area

However, Stantec will provide these services if they are part of the Imagine Clearwater under other tasks of this proposal. Otherwise, if desired and requested by the Client, Stantec will provide services that are not part of Imagine Clearwater as additional services.

TASK 890 – CONTINGENCY SERVICES

If requested, Stantec and other team members will provide other assistance and support to the Client on an as needed basis. This may include, but not be limited to coordination of improvements by others, meetings with parties other than identified in this Scope, special negotiations, etc. An estimated Fee Allowance is based on ten (10%) percent of the total Fee is

established. In the event that additional work efforts are needed that were not included in the original work order, a specific Scope of Service and a Fixed Fee amount will be established for the Client's approval prior to execution of the work. Any approved services will be invoiced monthly as percentage of the task budget

TASK 900 – Expenses

Project related expenses such as blueprints, normal/customary reproduction services, out of region travel, lodging, subsistence, postage; shipping, report, drawing and/or specification reproduction are all reimbursable expenses. Out-of-pocket reimbursable expenses will be invoiced as percentage of the task budget with back up provided.

General Conditions and Understandings:

- It is assumed that the City will assign a single project manager to serve as the primary point of contact (POC) for the purposes of coordinating the project review through various City Departments.
- It is anticipated that topographic and boundary surveying services required for the proposed project will be provided by the City and coordinated by Stantec. All survey documents are anticipated to be provided in Civil 3D latest version. Required survey information include, but not limited to; topographic in state plane coordinate, boundary, all easements, tree, etc.
- It is anticipated that City will provide the results of title search of all the parcels and easements within the project limits to identify any associated limitation/restrictions.
- City project manager will assist Stantec in obtaining design information from private developments and all the City Departments.
- Due to the accelerated schedule of the project, it is anticipated that the City will arrange for a single review meeting at each submittal phase. At these meetings, all review comments are provided by the City staff for resolution. Client and City Project Managers will attend these meetings to confirm resolution of all comments.
- Client will provide Stantec with project objectives and requirements as well as any available information pertaining to the Project.
- A detailed schedule will be developed after the NTP is issued. This schedule will be based on project information to be provided by the City and overall project goals coordinated with the required permitting timelines.
- CITY requires a "fast track" approach to meet the anticipated scheduling objectives. This will likely require initiating certain tasks/activities, prior to completion of other prerequisite/predecessor tasks as would be done in a conventional/non-fast tract scenario.

Excluded Services:

The Professional Services that Stantec will provide under this Proposal/agreement include, and are limited to, those described above in the Scope of Services. All other services including, but not limited to, the following are specifically excluded, but may be authorized as Additional Services:

- Demolition and/or remediation of any structures, including City Hall, etc.
- Transportation planning, traffic counts, etc.
- Regional floodplain analysis, or compensation
- Federal Emergency Management Agency (FEMA) Floodplain Permitting – Conditional Letter of Map Revision (CLOMR) or Letter of Map Revision (LOMR)
- All services associated with hazardous materials

- Visual Animations
- Preparation of off-site improvements plans.

If requested by the Client, Stantec may provide some of the above referenced “excluded” services as an amendment to this agreement.

Attachments: Attachment “A” City of Clearwater- Work Order Initiation Form- City Deliverables
Attachment “B” Fee Estimate
Attachment “C” Stantec Schedule of Hourly Rates
Attachment “D” IC Validated Master Plan with Phasing
Sub-Consultants
Attachment “E” Terracon (Geotechnical Engineering)
Attachment “F” Moffat & Nichol (Coastal/Mar. Eng.)
Attachment “G” Aquatic Design & Engineering, Inc. (Fountain Design)
Attachment “H”- Schuler Shook (theatre)
Attachment “I” Siebein Associates (Acoustics)
Attachment “J” SLS Consulting (Life Safety)
Attachment “K” Williamson Dacar Associate (Library Renovation Architecture)

3. PROJECT GOALS:

The overall purpose of the City of Clearwater's Imagine Clearwater – Design and Construction Consulting Services project is to provide design and construction consulting support services for Phase 1 and 2 of the Imagine Clearwater Project. Engineering services shall include the development of all designs necessary to complete Phase 1 and 2 of the Project. Timing within Phase 1 shall be developed by the CM to maintain the existing concert venue until The Green is complete. A general summary of anticipated services includes, but is not limited to construction drawings, specifications, bid documents, as needed permit acquisition and post design construction services through the duration of the project. Construction services shall include shop drawing review, responding to RFI's, inspecting critical portions of the project, conducting regular progress meetings with stakeholders, preparing as-built drawings, certifying completed work as necessary and closeout of all permits.

4. BUDGET:

Stantec proposes to provide the services identified under the scope of services per the enclosed **Attachment “B”** Fee Estimate. The total fee shown in **Attachment “B”** is for both phases of the project. The budget request for **this WO is only for Phase 1**. This price includes all labor and expenses anticipated to be incurred by Stantec for completion of these tasks in accordance with Professional Services Method “B” – Lump Sum – Percentage of Completion by Task for a fee not to exceed five million six hundred forty-four thousand and three hundred twenty-two Dollars (\$5,644,322).

Services associated with the Construction Administration is proposed to be invoiced on a time and material basis per the enclosed **Attachment “C”** Stantec Schedule of Hourly Rates.

5. SCHEDULE:

The proposed estimated duration of the tasks of the project for Design, permitting and Construction are as per the following:

Activity	Duration
Schematic Design	8 weeks
Design Development	12 Weeks
Construction Documents	
90% CD	12 weeks
100% CD	2 weeks
Construction	16 Month (to be confirmed by CM)

Total project time will be the durations identified above plus the review periods. Site permitting will be parallel to the design effort after the approval of the Design Development Phase. However, the total project duration will be plus some permitting time.

Stantec team will work with CITY to prepare a detailed design and permitting schedule with consideration to review times, etc. Schedule will be adjusted in coordination with the CM to be incorporated to the over all project delivery schedule.

6. STAFF ASSIGNMENT (Consultant):

Stantec Team

David Kemper, PE – Managing Principal
Hamid Sahebkar, PE – Project Manager / Engineering Principal
Daryl LeBlanc, AIA – Architect Principal
Greg Meyer, RLA – Landscape Architect Principal
Kyle Steele, RLA – Landscape Architect
James Townsend, PE- Civil Engineer
Jim Ordija, PE- Structural Engineer
Matt Donolli, PE- MEP Engineer
Mark Foster, PSM- Survey/SUE

Subconsultants

Terracon- Geotechnical Engineering Subconsultant
Moffat & Nichol – Marine Engineering Subconsultant
Aquatic Design & Engineering, Inc. - Fountain Design Subconsultant
Shuler Shook – Theater Design Subconsultant
Siebein & Associates – Acoustic Subconsultant
SLS Consulting- Life Safety Subconsultant
Williamson Dacar Associates Library Architecture Subconsultant

7. CORRESPONDENCE/REPORTING PROCEDURES:

All ENGINEER's project correspondence shall be directed to:
Hamid Sahebkar, PE with copies to others as may be appropriate.

Imagine Clearwater

Design and Construction Support Services

All CITY project correspondence shall be directed to:
Timothy M. Kurtz, RLA, ASLA with copies to others as may be appropriate.

8. **INVOICING/FUNDING PROCEDURES:**

For work performed, invoices shall be submitted monthly to the:

City of Clearwater, Engineering Department
Attention: Veronica Josef, Senior Staff Assistant
PO Box 4748

Clearwater, Florida 33758-4748.

Contingency services will be billed as incurred only after written authorization provided by the City to proceed with those services.

City Invoicing Code: ENG180013-DSGN-PROSVC

9. **INVOICING PROCEEDURES**

At a minimum, in addition to the invoice amount(s) the following information shall be provided on all invoices submitted on the Work Order:

- A. Purchase Order Number and Contract Amount.
- B. The time period (begin and end date) covered by the invoice.
- C. A short narrative summary of activities completed in the time period
- D. Contract billing method – Lump Sum or Cost Times Multiplier
- E. If Lump Sum, the percent completion, amount due, previous amount earned and total earned to date for all tasks (direct costs, if any, shall be included in lump sum amount).
- F. If Cost Times Multiplier, hours, hourly rates, names of individuals being billed, amount due, previous amount earned, total earned to date for each task and other direct costs (receipts will be required for any single item with a cost of \$50 or greater or cumulative monthly expenses greater than \$100).
- G. If the Work Order is funded by multiple funding codes, an itemization of tasks and invoice amounts by funding code.

10. **SPECIAL CONSIDERATIONS:**

The consultant named above is required to comply with Section 119.0701, Florida Statutes (2013) where applicable.

PREPARED BY:

David A. Kemper, PE
Senior Principal
Stantec Consulting Services Inc.

Date

APPROVED BY:

Tara L. Kivett, PE
City Engineer
City of Clearwater

Date



CITY OF CLEARWATER ENGINEERING DEPARTMENT

WORK ORDER INITIATION FORM CITY DELIVERABLES

1. **FORMAT**

The design plans shall be compiled utilizing the following methods:

1. City of Clearwater CAD standards.
2. Datum: Horizontal and Vertical datum shall be referenced to North American Vertical Datum of 1988 (vertical) and North American Datum of 1983/90 (horizontal). The unit of measurement shall be the United States Foot. Any deviation from this datum will not be accepted unless reviewed by City of Clearwater Engineering/Geographic Technology Division.

2. **DELIVERABLES**

The design plans shall be produced on bond material, 24" x 36" at a scale of 1" = 20' unless approved otherwise. Upon completion the consultant shall deliver all drawing files in digital format with all project data in Autodesk Civil 3D file format. If not available Land Desktop files are still acceptable, however the City or Clearwater is currently phasing out Land Desktop.

NOTE: If approved deviation from Clearwater CAD standards are used the Consultant shall include all necessary information to aid in manipulating the drawings including either PCP, CTB file or pen schedule for plotting. The drawing file shall include only authorized fonts, shapes, line types or other attributes contained in the standard release of Autodesk, Inc. software. All block references and references contained within the drawing file shall be included. Please address any questions regarding format to Mr. Tom Mahony, at (727) 562 4762 or email address Tom.Mahony@myClearwater.com.

All electronic files (CAD and Specification files) must be delivered upon completion of project or with 100% plan submittal to City of Clearwater.

Attachment "B"

PROFESSIONAL ENGINEERING CONSULTANT SERVICES				
City of Clearwater				
Imagine Clearwater Implementation				
Design, Permitting and Construction Services				
Attachment "B"				
Fee Estimate				
July 10, 2019				
TASK	Activity DESCRIPTION	CD/CA		Total Fee
		Phase 1	Phase 2	By Task
200	PROJECT MANAGEMENT			
205	Project Management	\$54,000	\$23,900	\$77,900
206	Project Meetings	\$66,000	\$30,000	\$96,000
207	Project Coordination	\$55,100	\$26,500	\$81,600
208	City Council / Public Meeting	\$37,000	\$9,500	\$46,500
	Subtotal Task 205-208	\$212,100	\$89,900	\$302,000
400	CIVIL ENGINEERING SERVICES			
410	Civil Engineering SD	\$195,900		\$195,900
420	Civil Engineering DD	\$259,700		\$259,700
430	Civil Engineering CD			
431	Civil Engineering CD Phase 1	\$156,600		\$156,600
432	Civil Engineering CD Bandshell	\$41,300		\$41,300
433	Civil Engineering CD Phase 2		\$106,500	\$106,500
440	Site Permitting Services			
441	Permit Applications and Initial Submittals	\$27,000	\$8,800	\$35,800
442	Agency Meetings and Negotiations	\$50,000	\$15,600	\$65,600
450	Civil Engineering CA Services			
451	Civil Engineering CA Phase 1	\$97,600		\$97,600
452	Civil Engineering CA Bandshell	\$15,800		\$15,800
453	Civil Engineering CA Phase 2		\$66,300	\$66,300
	Subtotal Task 410 - 453	\$843,900	\$197,200	\$1,041,100
460	Civil Engineering Associated Services			
461	Surveying Subsurface Utility Designation	\$30,000		\$30,000
462	Surveying Vacuum Excavation	\$16,000		\$16,000
	Subtotal Task 461 - 462	\$46,000		\$46,000
470	Terracon_Geotechnical Engineering Services	\$37,700		\$37,700
480	Moffatt & Nichol_ Water Steps Engineering Services	\$79,000		\$79,000
500	LANDSCAPE ARCHITECTURE SERVICES			
510	LA SD	\$172,100		\$172,100
520	LA DD	\$378,700		\$378,700
530	Landscape Architecture CD			
531	LA CD Phase 1	\$324,700		\$324,700
532	LA CD Phase 2		\$160,800	\$160,800
533	LA CD Phase Bandshell			
540	LA Permitting	\$41,000	\$10,700	\$51,700

Attachment "B"

TASK	Activity DESCRIPTION	CD/CA		Total Fee
		Phase 1	Phase 2	By Task
550	Landscape Architecture CA Services			
551	LA CA Phase 1	\$72,700		\$72,700
552	LA CA Phase 2		\$37,300	\$37,300
553	LA CA Phase Bandshell			
	Subtotal Task 510 - 553	\$989,200	\$208,800	\$1,198,000
	Landscape Architecture Associated Services			
560	Site Lighting Services	\$49,400	\$14,200	\$63,600
570	ADE_Fountain Design Services	\$58,242	\$21,548	\$79,790
600	ARCHITECTURE AND INTERIOR DESIGN			
610	Architecture SD	\$163,200		\$163,200
615	Renderings	\$77,000		\$77,000
620	Architecture DD	\$376,700		\$376,700
630	Architecture CD			\$0
631	Architecture CD Phase 1	\$189,200		\$189,200
632	Architecture CD Bandshell	\$177,400		\$177,400
633	Architecture CD Phase 2		\$71,500	\$71,500
640	Architecture Permitting Services	\$10,720	\$2,680	\$13,400
650	Architecture CA Services			\$0
651	Architecture CA Services Phase 1	\$124,100		\$124,100
652	Architecture CA Services Bandshell	\$142,300		\$142,300
653	Architecture CA Services Phase 2		\$55,100	\$55,100
	Subtotal Task 610 - 653	\$1,260,620	\$129,280	\$1,389,900
660	MECHANICAL, ELECTRICAL AND PLUMBING ENGINEERING			
661	MEP SD	\$36,000		\$36,000
662	MEP DD	\$60,000		\$60,000
	MEP CD			
663	MEP CD Phase 1	\$33,800		\$33,800
664	MEP CD Bandshell	\$33,200		\$33,200
665	MEP CD Phase 2		\$17,000	\$17,000
666	MEP Permitting	\$9,600	\$2,400	\$12,000
	MEP Construction Administration			
667	MEP CA Phase 1	\$19,300		\$19,300
668	MEP CA Bandshell	\$19,000		\$19,000
669	MEP CA Phase 2		\$9,700	\$9,700
	Subtotal Task 661 - 669	\$210,900	\$29,100	\$240,000
670	STRUCTURAL ENGINEERING			
671	Structural SD	\$102,000		\$102,000
672	Structural DD	\$106,300		\$106,300
	Structural CD			
673	Structural CD Phase 1	\$71,500		\$71,500
674	Structural CD Bandshell	\$34,400		\$34,400
675	Structural CD Phase 2		\$18,300	\$18,300
676	Structural Permitting	\$20,480	\$5,120	\$25,600
	Structural CA Services			
677	Structural CA Phase 1	\$58,700		\$58,700
678	Structural CA Bandshell	\$30,800		\$30,800
679	Structural CA Phase 2		\$16,400	\$16,400
	Subtotal Task 671 - 679	\$424,180	\$39,820	\$464,000

Attachment "B"

TASK	Activity DESCRIPTION	CD/CA		Total Fee
		Phase 1	Phase 2	By Task
680	Architectural Associated Services			
681	Schuler-Shook-Theater Design Services	\$227,600		\$227,600
682	Siebein-Acoustic Design Services	\$179,480		\$179,480
683	SLS-Life Safety Services	\$42,500		\$42,500
700	LIBRARY RENOVATIONS			
710	LIB-WDA-Architecture-	\$469,000		\$469,000
720	LIB-Civil Engineering	\$22,000		\$22,000
730	LIB-LA	\$16,500		\$16,500
	Subtotal Task 710-730	\$507,500		\$507,500
	SUBTOTAL	\$5,168,322	\$729,848	\$5,898,170
	890 CONTINGENCY (W/ CITY STAFF APPROVAL)	\$420,000	\$120,000	\$540,000
	900 REIMBURSABLE EXPENSES	\$56,000	\$14,000	\$70,000
	TOTAL FEE	\$5,644,322	\$863,848	\$6,508,170

Attachmnet "D"

