

**WORK AUTHORIZATION PURSUANT TO THE AGREEMENT FOR  
PROFESSIONAL SERVICES BETWEEN**

**THE CITY LAUDERHILL  
AND  
KCI TECHNOLOGIES, INC.  
AUGUST 27, 2024**

**CITY OF LAUDERHILL - MAPLE RUN - DRAINAGE  
REMEDICATION PROJECT**

The purpose of this Agreement is to outline the scope of services recommended by KCI Technologies, Inc., (CONSULTANT) and accepted by the City of Lauderhill (CITY), and to establish the contractual conditions between the CONSULTANT and the CITY with respect to the proposed services. The services include providing professional engineering services to assist the CITY in the Maple Run -Drainage Remediation.

**INTRODUCTION**

CONSULTANT met with representatives of the City of Lauderhill (CITY) on 7/10/24 to discuss the scope of work for remediation of the current drainage system related to the drainage flooding issues within the referred to “Maple Run Neighborhood”. The current drainage system components are located within the limits of three (3) Homeowners Associations (HOAs). The northeastern most HOA is the “Invervillas & Environs HOA, Inc.”, the central HOA is the “Townhomes of Inverrary 32 HOA” and the southeastern most HOA is the “Maple Run Homeowners Association, Inc.” The City public R/W looped road system that serves these HOAs is NW 34 Street, NW 75 Terr. and NW 33 Street. NW 34 Street and NW 33 Street are both connected to Inverrary Blvd West. at their east terminus respectively. The total area of the three HOAs collectively is approximately 32 acres.

The current storm water management (SWM) system consists of two (2) lakes, a control structure that limits discharge into the CITY’s Drainage Canal 20, catch basins within street R/Ws with positive closed pipe conveyance systems along with portions of pipe systems (discharging into lakes and directly into the canal) and some exfiltration trenches at the exit of Maple Run’s parking areas with catch basins and exfiltration piping systems. Lakes are not within public R/W, but the CITY has obtained access easements to improve/upgrade existing infrastructure. The overall systems are quite old. Lake interconnect pipes are reportedly collapsed and are in need of replacement.

The CITY desires to have CONSULTANT provide drainage improvements to remediate the existing stormwater management system and improve the Level of Services for the areas experiencing considerable flooding after most rainfall events. This scope of work is designated to address three (3)

drainage components comprising the current overall SWM system :

- Lakes, Pipe Interconnects and Control Structure
- Street R/W Drainage Systems along NW 33 St. and NW 34 St.
- Parking Lot Drainage Systems (where possible)

The professional services to be provided include design, permit applications and bid assistance phases only. Post design services will be part of a separate Work Order.

## **SCOPE OF SERVICES**

The scope of work, fees and schedule herein, as requested by the CITY are based on limited information, portions of dated engineering plans and “conceptual” plan layouts provided by the CITY.

Required Topographic Survey, supplemental SUE services and geotechnical soils testing services will be provided by the CITY as needed.

### **Task 1: DATA COLLECTION**

CONSULTANT will perform a site visit along with a CITY representative to determine the locations and routing of the existing stormwater management components (catch basins, piping, endwalls, control structure, etc.) to obtain from visual inspection as much data that can be obtained to ascertain the conveyance and attenuation concept of the existing systems. CONSULTANT will perform data collection services by researching available existing permits, as-builts, modeling results, reports master plans and any other pertinent documents available that may be provided by the CITY.

### **Task 2: DRAINAGE ANALYSES**

In addition to data collection in Task 1 above, the CONSULTANT will research appropriate jurisdictional water management agencies regarding available drainage permit(s) and archived drawings for the subject property and subsequent amendments to confirm allocated storage is available; and identify general requirements for compliance with applicable permitting agencies.

CONSULTANT will analyze the feasibility of suggested drainage system enhancements/improvements for conformance with established drainage criteria for the purpose of providing the CITY with a sufficient level of understanding related to the improvements required to meet the drainage needs of the proposed remediation.

CONSULTANT will perform a preliminary drainage analysis to determine feasibility of remediating the site. CONSULTANT shall provide recommendations implementing a drainage system to remove surface water and provide conveyance to improve the current ponding conditions. CONSULTANT, using survey information and all we have been able to gather, will be followed by further coordination

with the agencies (City of Lauderdale, Broward County RED and SFWMD). CONSULTANT will gather information and modeling data contained in the Stormwater Management & Flood Protection Master Plan (SWMFPMP) dated August, 2022, prepared by BCC Engineering and provided to the CONSULTANT by the City. This project boundaries fall within Basin A, particularly sub-Basin A10, as identified in the SWMFPMP from which the CONSULTANT will utilize data and programming improvements that were presented.

Any additional information pertinent to the evaluation made available through CITY to CONSULTANT will be used to enhance the analysis effort.

**Task 3: DESIGN PLANS**

CONSULTANT will prepare drainage remediation plans collectively including the three (3) drainage system components.

CONSULTANT will provide the following:

Drainage Remediation Plans consisting of:

- Cover Sheet
- General Notes
- Existing Conditions Plan
- Demolition Plan
- Grading and Drainage Plan
- Detail Sheets
- Erosion Control Plan and Details

The design plans will consist of the following completion/client review phases:

Schematic Phase	30% Complete
Design Development Phase	60% Complete
Construction Document Phase	90% Complete
Final Bid Documents Phase	100% Complete

During the Schematic Phase, the CONSULTANT will utilize the results outlined in the SWMFPMP to determine the level of service and target areas of critical ponding that will receive special attention and attempt to improve the level of service for sub-Basin A10. System model runs for 5yr, 10yr, 25yr and 100yr rainfall events will be analyzed. Once the proposed concept is complete, the CONSULTANT will prepare a Draft Design Criteria Report outlining the design concepts. The design approaches will be identified and discussed with the CITY for their acceptance. The Final Design Criteria Report will be utilized in the process of proceeding with developing construction bid documents. The CONSULTANT will coordinate the designs to meet the requirements of SFWMD and Broward County RED.

Specifications will be shown on the construction design drawings. CITY to provide their standard General Conditions and Front End Documents.

**Task 4: DESIGN COORDINATION MEETINGS**

CONSULTANT shall attend team meetings required to review the work tasks associated with design and permitting tasks. CONSULTANT shall also attend requested meetings with the CITY's designated Project Manager, and meetings with regulatory agencies.

KCI shall attend up to ten (10) meetings.

**Task 5: PERMIT APPLICATIONS**

CONSULTANT will provide technical criteria, written description and design data for use in filing applications for permits relative to the scope of services with the anticipated governmental agencies having jurisdiction. Pre-application meetings with the regulatory agencies to obtain their input/requirements at the early plan development stages will be arranged. The following agencies' permit applications or informational submittals will be provided:

- City of Lauderhill - (Building Dept. and Engineering Reviews)
- Broward County Resilient Environment Department (BCRED)

Permit application or informational submittal to South Florida Water Management District (SFWMD) is not included in this Scope of Services and shall be addressed as Additional Services if required.

CONSULTANT will prepare and submit the above referenced permit applications to the regulatory agencies noted herein. The applications will be prepared for the CITY's signature. The CITY will be responsible for paying all permit application fees and mitigation fees if required.

CONSULTANT will prepare permit submittal package to each appropriate agency, including up to two (2) rounds of RFI review responses for each agency.

Any additional permitting that may be required for any water/wastewater conflicts that entail relocation or realignment of these systems. Permitting of such is not part of this scope of work.

**Task 6: BID ASSISTANCE**

CONSULTANT will attend a Pre-Bid Meeting with prospective bidders to describe the scope of work (all three components of the overall SWM system) and clarify any concerns the contractors may have. Subsequent to the Pre-Bid Meeting, CONSULTANT will provide limited responses to contractor's request for additional information (RAIs) during the bid preparation period, prior to the submittal of bids. The CITY will conduct the review of submitted bids for compliance with the contract bid documents, develop a tabulation of bids, and make selection of contractor, i.e., Bid Award.

If funding necessitates delaying any of the three components' bidding, a supplemental agreement to address the bid assistance can be prepared at a later date when funding is available.

## SCHEDULE

Once a Purchase Order (PO) has been issued, the CONSULTANT shall commence work on the project. CONSULTANT anticipates commencing work within one (1) week from the receipt of the fully executed Purchase Order and completing the prescribed Design related work, i.e., Task descriptions 1 thru 4 of the Scope of Work above, within 9 months from the receipt of the Official Notice To Proceed.

## COMPENSATION

CONSULTANT shall invoice the CITY for services rendered under this Agreement on a lump sum basis and in accordance with the terms and conditions of the Agreement for Professional Services between the City of Lauderhill and KCI Technologies, Inc. dated January 18, 2024.

# CITY OF LAUDERHILL MAPLE RUN - DRAINAGE REMEDIATION PROJECTS FEE SUMMARY

TASK	DESCRIPTION	FEE
1	Data Collection	\$12,320.00
2	Drainage Analysis	\$20,440.00
3	Design Plans	\$62,860.00
4	Design Coordination Meetings	\$ 8,640.00
5	Permit Applications	\$ 7,560.00
6	Bid Assistance	\$ 3,640.00
<b>TOTAL</b>		<b>\$115,460.00</b>

## DISCLOSURES

This work order is presented with scope and fees for the drainage remediation of the existing stormwater management systems for each of the three (3) drainage projects/components identified in the Introduction of this agreement. It is understood that the CITY intends to bid the proposed improvements with three (3) separate bid packages to be awarded in phases commensurate with the City's funding availability. Fees indicated herein are for Design, Permit Applications and Bid Assistance phases only.

## THE CITY'S ASSISTANCE

The CITY shall assist the CONSULTANT with the following items in order to expedite the completion of the project(s) in an effective manner.

- A. Provide detailed plans of the existing drainage systems, record drawings and other pertinent documents, if available.
- B. Provide any permits for construction of the existing drainage systems, if available
- C. Provide copies of any previous reports or detailed plans, if available
- D. Provide Geotechnical Soils Testing
- E. Provide Topographic Survey and SUE (if needed)
- F. Provide Front End documentation, standard specifications, including preparation of specific forms required for web-based bid services.
- G. All permit fees to be paid by CITY
- H. Provide any master plans or modeling results, GIS of water, sewer and drainage systems
- I. This scope of services does not include effort for CONSULTANT to assist CITY in the event of a bid protest

In Witness of the foregoing, the parties have set their hands and seals this \_\_\_\_\_ day of \_\_\_\_\_, 2024.

CONSULTANT  
KCI Technologies, Inc.  
a Delaware Corporation

By:   
Bruce Reed, RLA, Vice President  
Regional Practice Leader

CITY OF LAUDERHILL  
a Municipal Corporation of  
the State of Florida

By: \_\_\_\_\_  
Responsible Entity

