

## TASK ORDER APPROVAL FORM

CONTRACT #: C19-2746-PW

TASK ORDER #: 13

TASK ORDER AMOUNT: \$ 99,380.00

CONTRACT: C19-2746-PW

HDR ENGINEERING, INC.

GENERAL ENGINEERING SERVICES FOR PW

EXPIRES: 09/30/2023

OFFERED BY CONSULTANT:

HDR Engineering, Inc.

FIRM'S NAME

Melanie E. Fowler

REPRESENTATIVE'S PRINTED NAME



SIGNATURE

Vice President

TITLE

June 23, 2022

DATE

### RECOMMENDED FOR APPROVAL (Department Director)

Jason T. Autrey, P.E.,  
C.P.M.

Digitally signed by Jason T.  
Autrey, P.E., C.P.M.  
Date: 2022.06.29 14:56:14 -05'00'

SIGNATURE

TITLE DATE

DATE

### APPROVED BY OKALOOSA COUNTY (Per Purchasing Manual) Table 1

Jeffrey A Hyde

Digitally signed by Jeffrey A Hyde  
Date: 2022.06.29 15:05:05 -05'00'

PURCHASING MANAGER

Faye Douglas

Digitally signed by Faye  
Douglas  
Date: 2022.06.30 08:15:09  
-05'00'

OMB DIRECTOR/DATE

DATE

P.P

Sheila Fitzgerald

Digitally signed by Sheila Fitzgerald  
Date: 2022.06.30 10:39:39 -05'00'

COUNTY ADMINISTRATOR (if applicable)

DATE

CHAIRMAN (if applicable)  
Mel Ponder

DATE

## **Task Order 13: County Pond 314**

### **Introduction**

Okaloosa County has identified the need to improve stormwater infrastructure along areas adjacent to US 98 west of the Hurlburt Interchange.

The County has a stormwater pond (Pond 314) located along US 98 between Springate Court and Seville Circle. The pond routinely has water in it and the County would like to add capacity. The north upstream ditch between Brenda Ln. and Seville Circle experience chronic flooding. The County is currently working on cleaning out the ditch that runs generally north & south and empties into the northwest corner of Pond 314. This is an attempt to improve the stormwater issues reported in the surrounding residential areas by fixing the conveyance of stormwater in the ditch to the pond. The County owns a parcel to the east of the pond, between Seville Circle and Deville Drive, and would like to add a pond on the site, connecting the two stormwater ponds with an equalizer pipe.

FDOT has an ongoing design project to 6-lane US 98 (SR 30) through this area. Currently the existing Pond 314 has a structure that discharges into the FDOT roadside ditch. Coordination will be necessary to develop designs for each project concurrently and provide consistency between the two projects.

Per field review, it appears that the flooding along the ditch could be mostly resulting from the ditch capacity deficiency, which includes overgrown vegetation, accumulated sediments, fences blocking ditch flow, and other obstructions. The pond water level, which is the tailwater for the ditch, has relatively minor impacts on ditch flow depth. The pond outfalls to US 98 roadside ditch directly with a PVC pipe that appears to be at the normal water line elevation. Therefore, the assumption is that pond does not provide any water quality treatment storage with current control structure configuration.

The goal is to improve the ongoing drainage issue of chronic flooding in the upstream conveyance ditch by expanding County Pond 314. To improve capacity, a new stormwater pond will be designed and permitted on a vacant parcel that Okaloosa County currently owns between Seville Circle and Deville Drive.

The following assumptions are made for this scope:

- The topographic survey for the existing and proposed pond areas will be obtained by HDR from FDOT
- No Public Involvement activities are associated with this scope of work.
- Okaloosa County will supply the pavement design for any roadway reconstruction due to drainage improvements.
- Wetland mitigation activities are not anticipated with this scope of work but coordination with regulatory agencies will dictate the permitting approach.
- Purchase of mitigation credits is not included in this scope of work.
- Access to property for survey crew, geotech crew, and engineering field visit to be provided by Okaloosa County.
- No Post Design services or CEI services are included in this scope.

- FDOT Standard Plans dated FY 2022-23 and Standard Specifications for Road and Bridge Construction dated July 2021 shall be used for FDOT roadways. Okaloosa County roadways will utilize the Manual of Uniform Minimum Standards for Design, Construction and Maintenance (Florida Greenbook).
- CADD design and production will be conducted in Microstation. Schedule will be drafted with Microsoft Project.

The fee for this scope of services totals \$99,380 and all tasks will be performed on a Lump Sum basis.

ACCEPTANCE:

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## **TASK 13 001 – Drainage Design and Coordination**

### **Objectives:**

Design a stormwater pond to be located on County owned property, adjacent to the existing County Pond 314 and produce construction plans (60% Plans, 90% Plans and Final Plans) for the improvements. This task includes coordination activities with FDOT, FDOT's widening design consultant, and coordination to obtain a FDOT Drainage Connection Permit.

### **HDR Activities:**

#### Coordination

- Coordinate with FDOT consultant designing 6-laning of US 98 (SR 30)
- Coordinate with FDOT to facilitate application for FDOT Drainage Connection Permit
  - Pre-application meeting to introduce and discuss project with FDOT
  - Submittal of application
  - Assume two Requests for Additional Information

#### Design

- Develop H&H model for ditch evaluation and pond design
- Develop pond improvement alternatives: (1) expand pond to east; (2) modify control structure to provide water quality treatment and lower the NWL.
- Prepare drainage report

#### Plans Production

- Key Sheet (1)
- Drainage Map (1)
- Typical Section (1)
- General Notes (1)
- Summary of Pay Items (1)
- Special Details (2)
- Optional Pipe Materials (1)
- Pond detail sheets (2)
- Traffic Control General Notes (1)
- Traffic Control Details (1)
- Utility Adjustment Sheets (1)

### **HDR Deliverables:**

- 60% Construction Plans and Drainage Report
- 90% Construction Plans and Drainage Report
- FDOT Connection Permit
- Final Construction Plans, Drainage Report, and Opinion of Probable Construction Cost
- Bid Tabulation Form

## **TASK 13 002 – Permitting**

### **Objectives:**

Obtain an Environmental Resource Permit from the Northwest Florida Water Management District (NWFWMMD).

### **HDR Activities:**

#### Permitting

- Complete field review to document field conditions
- Coordination with NWF WMD & FDOT
- Prepare and submit ERP Application to WMD
  - HDR to pay permit fee
- Respond to Request for Additional Information – assume one RAI for ERP

### **HDR Deliverables:**

- General Permit Application - Environmental Resource Permit

## **TASK 13 003 – Survey and SUE Services**

### **Objectives:**

Obtain topographic information for the roadway and drainage improvements that will supplement the data obtained from FDOT/FDOT's consultant for the US 98 widening design. Also, to obtain accurate existing utility information at identified conflict points by performing Subsurface Utility Exploration (SUE) locates. This task will be completed by SAM, LLC.

### **SAM Activities:**

- Topographic survey of the existing pond control structure, including pipe inverts of the outfall
- Survey and collect the invert elevation of the pipe discharging into the US 98 roadside ditch (northern R/W)
- Collect aboveground visible utilities and aboveground visible evidence of underground utilities.
- Locate geotechnical borings – location and elevation
- Locate wetland flags, delineated by HDR Engineering
- Based on limited boundary monumentation collected depict:
- Calculated right of way and parcel lines along US 98 and Seville Circle within the topo limits.
- Excavate up to 4 SUE test holes
  
- Assumptions:
  - Trees will not be located by SAM.

### **HDR Activities:**

- Identify locations to collect 4 SUE test holes

### **SAM Deliverables:**

- Survey CADD file in Microstation format to current FDOT standards
- Project Control Sheets
- SUE Test Hole Report, including existing utility elevation data at SUE locations

## **TASK 13 004 – Geotechnical Services**

### **Objectives:**

Perform and analyze geotechnical borings for the proposed stormwater pond. This task will be completed by Tierra, Inc.

### **Tierra Activities:**

- Obtain geotechnical borings for the existing Pond 314 and proposed stormwater pond east of Seville Circle
  - Geotechnical Borings (2-20' deep SPT borings)
  - Geotechnical Soils Analysis
    - Permeability Analysis
    - Moisture Content
    - Sieve Analysis
  - Seasonal High Groundwater Estimate
  - Prepare Pond Soils Report

### **Tierra Deliverables:**

- Pond soils report with recommendations
- Pond Soil Survey Sheets