

TASK ORDER APPROVAL FORM

CONTRACT #: C19-2746-PW

TASK ORDER #: 11, Revision 1

TASK ORDER AMOUNT: \$200,981.00
(Original Task Order \$142,647, plus add'l \$58,334)

CONTRACT: C19-2746-PW

HDR Engineering, Inc.

General Engineering Services for Public Works

EXPIRES: 09/30/2023

OFFERED BY CONSULTANT:

HDR Engineering, Inc.

FIRM'S NAME

Katie Duty, P.E.

REPRESENTATIVE'S PRINTED NAME

Katie E. Duty

SIGNATURE

Vice President

TITLE

07/07/2023

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: 2023.07.18 15:30:03 -05'00'

SIGNATURE

Public Works Director

TITLE DATE

07.18.2023

DATE

APPROVED BY OKALOOSA COUNTY (Per Purchasing Manual) Table 1

DeRita
Mason

Digitally signed by DeRita
Mason
Date: 2023.08.18 11:12:45
-05'00'

PURCHASING MANAGER

08.18.2023

Faye Douglas

Digitally signed by Faye Douglas
Date: 2023.08.18 12:46:39 -05'00'

OMB DIRECTOR/DATE

08.18.2023

DATE

John Hofstad

Digitally signed by John Hofstad
Date: 2023.08.18 13:27:24
-05'00'

COUNTY ADMINISTRATOR (if applicable)

DATE

Revised January 21, 2020

CHAIRMAN (if applicable)

Robert A. "Trey" Goodwin, III

September 5, 2023

DATE



INTRODUCTION

HDR has previously completed drainage design improvements for the Overbrook Subdivision under Task Work Order 11. This scope and fee is a supplement to TWO 11 and will extend the design to include additional ditch work and an additional pond.

TWO 11 included the design of drainage improvements adjacent to the Overbrook subdivision intended to reduce the frequency of flooding in the area. Improvements focused on an existing 1,500' long ditch contained within a drainage easement located north of Florence Avenue and Overbrook Drive and included a stormwater pond north of the ditch. The original scope of work only redesigned the existing ditch for approximately 500'. Downstream of the original scope, the ditch continues east to a power easement and combines with offsite flow from three other directions. The combined runoff then flows south along the power easement through two retention ponds within the power easement before eventually discharging into Gap Creek. Original TWO 11 also included an access road from Martin Luther King Jr. Blvd. to the proposed pond. Design of improvements originally scoped has been completed.

This scope revision modifies TWO 11 by extending the ditch design approximately 1000' east to the power easement, and design of a second retention pond. The scope includes design of concrete mat lining all 1500' of ditch (redesign and new limits). The following assumptions are made for this scope:

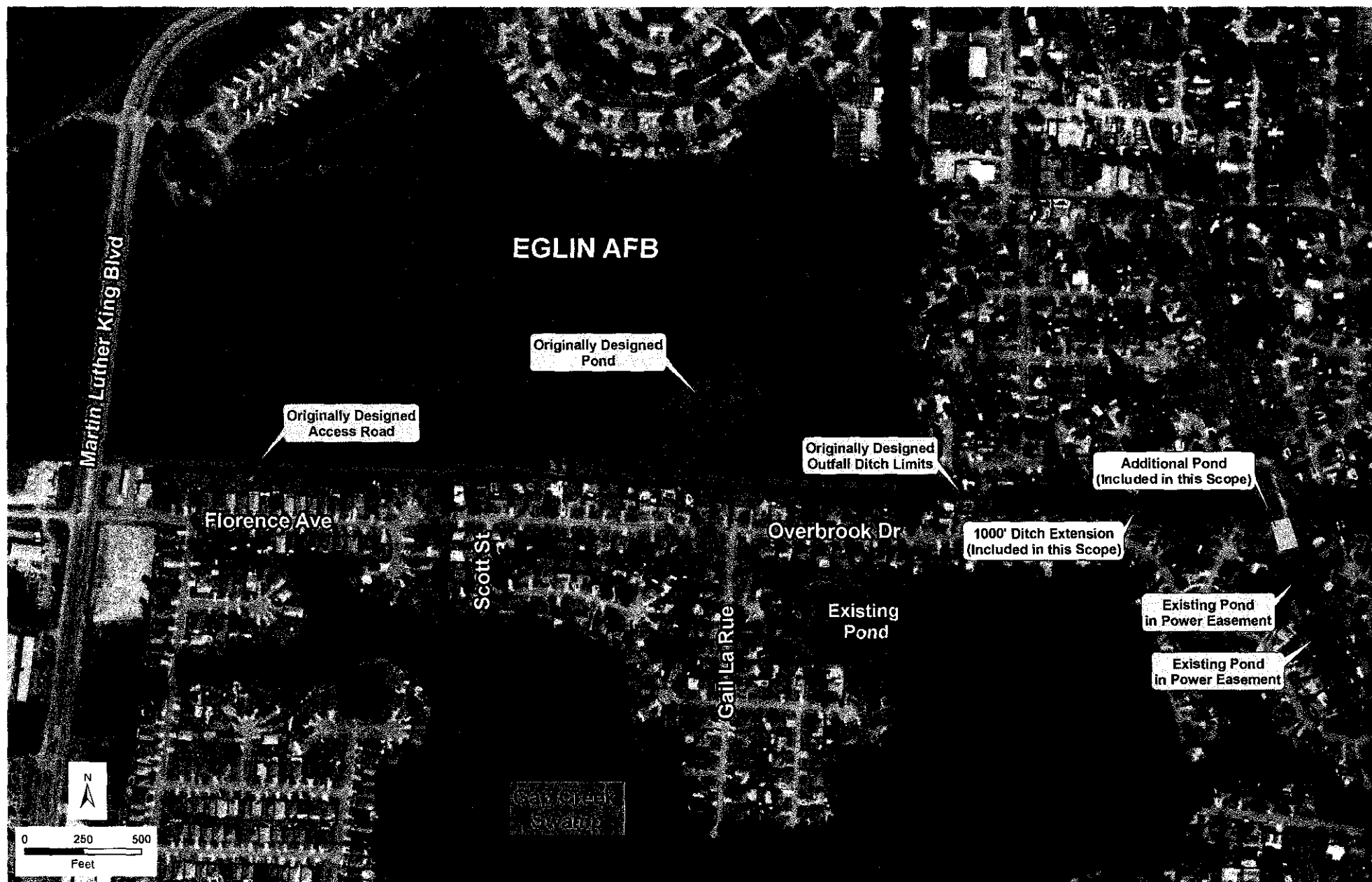
- No Public Involvement activities are associated with this scope of work.
- No wetland impacts are anticipated with this scope of work.
- No wetland mitigation activities are anticipated with this scope of work.
- Purchase of mitigation credits is not included in this scope of work.
- One Planset is assumed for construction by bidding. Separating plans into component sets for bidding and alternative construction is not included.
- Access to property for survey crew, Geotech crew, and engineering field visit to be provided by Okaloosa County. No coordination for easement access is included in this scope.
- Real Estate activities are not included in this scope of services.

The fee for this scope revision is a not-to-exceed fee of \$58,344 which will be added to the original fee of \$142,647 to bring the total task order fee to \$200,991

ACCEPTANCE:

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

Digitally signed by Jason T. Autrey,
P.E., C.P.M.
Date: 2023.07.18 15:30:24 -05'00'



TASK 1 – Survey

Objective:

Obtain topographic information within the power easement to facilitate the pond design including surrounding existing drainage structure flow lines and invert elevations.

SAM Activities:

This task assumes the following activities:

- Topographic Survey of:
 - o Power Easement area from Tanglewood drive to north end of existing pond within power easement
 - o Flow Lines and pipe size information for cross drains under Tanglewood
 - o Flow Lines and pipe size information for pipe leading into the pond just south of outlined area
 - o Flow Lines and pipe size information for MES's coming in from East
 - o Survey of Pond Geotechnical Borings
 - o Flow Lines and survey of two additional incoming ditches into power easement
 - o Flow Line and survey of existing pond outfall structures and pipes connecting them
 - o Collect information to show approximate boundaries of Overbrook Subdivision, Overbrook 1st Addition, Tanglewood Subdivision, and Tanglewood 2nd Addition.

Deliverables:

- Survey CADD File in Microstation format to current FDOT standards
- Existing Utility Elevation data at SUE locations.

-

TASK 2 – Geotechnical Exploration

Objective:

Perform and analyze Geotechnical Borings for pond. This Task will be completed by Tierra Inc.

Activities:

This task assumes the following activities

- Field Activities
 - Field stake borings.
 - Obtain utility clearances/dig permit for borings.
 - Perform 2 @ 7' deep auger borings in the proposed pond area (assuming a wet pond will be required due to shallow groundwater).
 - Install temporary piezometers to monitor groundwater levels (3 readings over 2 weeks)
- Laboratory Soil Testing
 - Soil classification test (gradation, Atterberg limits, organic content test).
- Engineering Services
 - Coordinate field work.
 - Classify soil samples and assign lab testing.
 - Estimate Seasonal High/Low Water Table (SHWT) levels for wet pond design.
 - Prepare Boring Location Plan and Soil Profiles
 - Prepare report of findings.

Deliverables:

- Report of findings

TASK 3 – Drainage Design and Plans

Objective:

Produce construction plans (60% and Final) for additional drainage improvements including the 1,000 LF of additional ditch construction and the additional pond within the power easement.

HDR Activities:

This task assumes the following activities

- Drainage
 - Update Drainage model to include two additional basins which outfall into the power easement
 - Ditch Design for approximately 1,000 LF
 - Pond Design
 - Prepare drainage calculations and report for the design.
- Plans Production
 - Update Key Sheet (1)
 - Update Drainage Map (1)
 - Update Summary of Quantities (2)
 - Update Optional Pipe (1)
 - Plan Sheet (2)
 - Pond sheet and Details (2)
 - Pond Cross Sections (10)
 - Ditch Cross Sections (20)
 - Special Ditch Profile (1)
 - Erosion Control Plan Sheets (2)
 - SWPPP Sheets Update (1)
- Miscellaneous
 - Cost Estimate (60% and Final)
 - Develop Bid Tabs
 - Coordination with Florida Power and Light regarding requirements for construction inside power easement.

Deliverables:

- Construction Plans
- Bid Tabs

HDR ACTIVITIES / FEE COMPUTATIONS

Project: Overbrook Drainage Design_Task Order 11 Supplemental Fee
 Client: Okaloosa County
 Prepared By: HDR Engineering, Inc.

Date: July 6, 2023

ACTIVITY	Project Principal		Project Manager		Senior PE		Senior Environ		Project Engineer		Engineer Intern		Env. Scientist		Senior CADD		Acct. / Admin		Activity Fee	Manhours By Activity
	Man-Hours	Hourly Rate	Man-Hours	Hourly Rate	Man-Hours	Hourly Rate	Man-Hours	Hourly Rate	Man-Hours	Hourly Rate	Man-Hours	Hourly Rate	Man-Hours	Hourly Rate	Man-Hours	Hourly Rate	Man-Hours	Hourly Rate		
LUMP SUM ACTIVITIES																				
1 - Survey		\$ 208.00		\$ 208.00		\$ 187.00		\$ 156.00		\$ 145.00		\$ 99.00				\$ 109.00		\$ 78.00	\$ -	0
2 - Geotechnical Exploration		\$ 208.00		\$ 208.00		\$ 187.00		\$ 156.00		\$ 145.00		\$ 99.00				\$ 109.00		\$ 78.00	\$ -	0
3 - Drainage Design and Plans	12	\$ 208.00	64	\$ 208.00	80	\$ 187.00		\$ 156.00	48	\$ 145.00	16	\$ 99.00			8	\$ 109.00		\$ 78.00	\$ 40,184.00	228
		\$ 208.00		\$ 208.00		\$ 187.00		\$ 156.00		\$ 145.00		\$ 99.00				\$ 109.00		\$ 78.00	\$ -	0
																				0
																				0
TOTAL	12		64		80		0		48		16		0		8		0			228

NOTE: RATES ARE BASED ON MASTER SERVICES AGREEMENT BETWEEN OKALOOSA COUNTY & HDR, CONTRACT# C19-2746-PW (Years 1-3)

HDR SUBTOTAL LABOR (LUMP SUM) \$ 40,184.00

SAM (Survey) \$ 12,000.00

Tierra (Geotech) \$ 6,160.00

GRAND TOTAL (LUMP SUM & LIMITING AMOUNT) \$ 58,344.00

TASK LIST

ACTIVITY: Task 3 -Drainage Design and Plans

Task	Basis of Estimate	No. of Units	Hours/ Unit	Total Hours	Remarks
Update Drainage Model	LS	1	48	48	
Ditch Design	LS	1	8	8	
Pond Design	LS	1	24	24	
Drainage Calculations	LS	1	12	12	
Update Key Sheet	EA	1	1	1	
Update Drainage Map	EA	1	8	8	
Update Summary of Quantities	EA	2	8	16	
Update Optional Pipe	EA	1	2	2	
Plan Sheets	EA	3	4	12	
Pond Sheet	EA	2	24	48	
Pond Cross Sections	EA	10	0.5	5	
Ditch Cross Sections	EA	20	0.5	10	
Special Ditch Profile	EA	1	8	8	
Erosion Control Plan Sheets	EA	2	4	8	
Update SWPPP Sheets	EA	1	2	2	
Cost Estimate	LS	1	12	12	
Bid Tabs	LS	1	4	4	
Total				228	