

Project: Outfall Canal Dredging Project

Contract SCO # 23-27309-02

This document provides a detailed scope of work request for topographic survey needs to be used in the design of the referenced project.

Scope of Services

The designer has identified 4 areas within the project boundaries that require topographic survey to support the project design. These 4 areas are designated as follows:

- Area 1: NFWS Lake Mattamuskeet Refuge CDF
- Area 2: NFWS Lake Mattamuskeet Refuge Impoundment MI-6
- Area 3: Davis Property
- Area 4: Outfall Farms Property

General area maps of boundaries are provided with this scope of services for each of the areas.

The selected surveyor shall provide all labor, equipment, materials, and resources necessary to complete the following:

1. Field Data Collection

- Perform topographic surveys for each of the four project areas covering the entirety of the boundary identified on the attached figures.
- Establish horizontal control using North Carolina State Plane Coordinate System (NAD83).
- Establish vertical control using North American Vertical Datum of 1988 (NAVD88).
- Include sufficient control points for future referencing and verification.
- Capture ground elevation data sufficient to general 1.0-ft contour intervals across the site.

2. Data Processing & Mapping

- Process all field data to produce accurate topographic maps with 1.0-foot contour intervals.
- Ensure sufficient point density and elevation accuracy to support civil engineering design.
- All mapping shall be georeferenced and compatible with AutoCAD Civil 3D.
- Include metadata, control point documentation, and surveyor's certification.

3. Deliverables

- Digital files in AutoCAD 2018 (.dwg) or newer format with layers organized by feature type.
- PDF copies of each site's topographic map.
- Surveyor's report summarizing methodology, control points, and any limitations.
- All raw data and control point coordinates upon request.

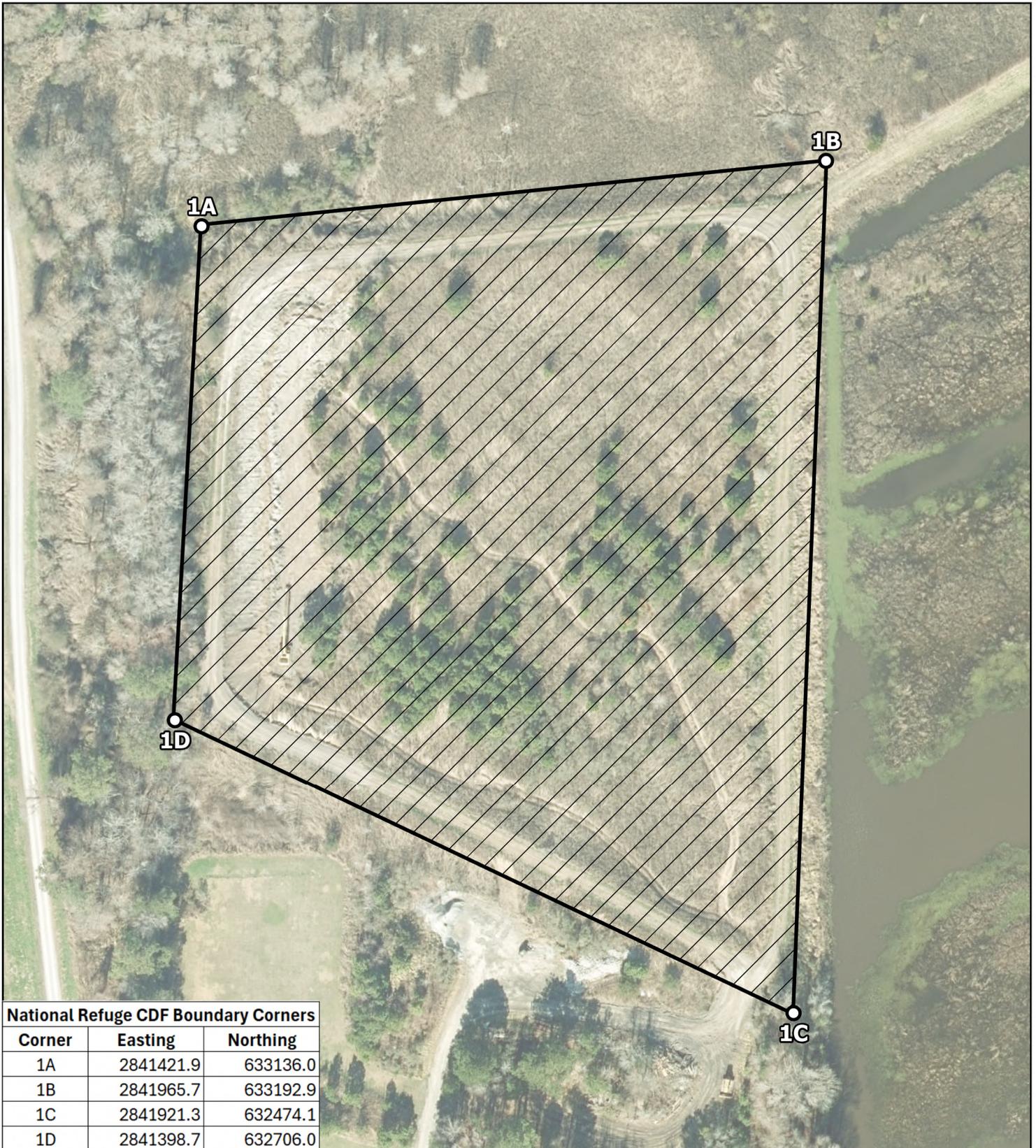
Surveyor's Proposal Requirements

Please include the following in your proposal:

- Total cost for all labor, equipment, travel, and expenses.
- Estimated schedule, including:
 - Time required for field data collection.
 - Time for data processing and QA/QC.
 - Anticipated delivery date for final survey products.
- Any assumptions, exclusions, or special conditions.
- Proof of professional licensure in North Carolina and current insurance documentation.

Additional Notes

- Site access coordination will be provided upon award.



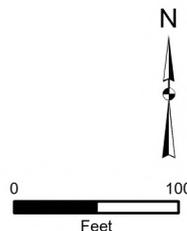
National Refuge CDF Boundary Corners		
Corner	Easting	Northing
1A	2841421.9	633136.0
1B	2841965.7	633192.9
1C	2841921.3	632474.1
1D	2841398.7	632706.0

Legend

-  National Refuge CDF
-  Boundary Corners

Notes:

1. Unit boundary area is approximately 7.37 acres.
2. Corner points are referenced in:
NAD 1983 StatePlane North Carolina FIPS 3200 Feet.
3. Service layer credits: NC CGIA, Maxar.



Outfall Canal Dredging Project
National Refuge CDF Boundary

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 consultants

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Figure

1



National Refuge MI-6 Boundary Corners

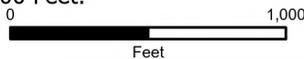
Corner	Easting	Northing
2A	2843934.9	633236.0
2B	2848647.7	636407.0
2C	2848728.3	636024.7
2D	2844327.6	632620.4

Legend

-  National Refuge Impoundment MI-6
-  Boundary Corners

Notes:

1. Unit boundary area is approximately 68.44 acres.
2. Corner points are referenced in:
NAD 1983 StatePlane North Carolina FIPS 3200 Feet.
3. Service layer credits: NC CGIA, Maxar.



Outfall Canal Dredging Project

National Refuge Impoundment MI-6 Boundary

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Figure

2



Davis Property Boundary Corners		
Corner	Easting	Northing
3A	2843545.2	627668.5
3B	2844328.5	628104.4
3C	2844587.8	627260.6
3D	2843930.1	626975.1

Legend

-  Davis Property Boundary
-  Boundary Corners

Notes:

1. Unit boundary area is approximately 15.35 acres.
2. Corner points are referenced in:
NAD 1983 StatePlane North Carolina FIPS 3200 Feet.
3. Service layer credits: NC CGIA, Maxar, Microsoft.



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Davis Property Boundary



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Figure

3



Outfall Farms Property Boundary Corners		
Corner	Easting	Northing
4A	2848715.3	619434.3
4B	2850922.2	619669.3
4C	2850992.4	618453.6
4D	2849429.5	618293.3

Legend

 Outfall Farms Property Boundary

 Boundary Corners

Notes:

- Unit boundary area is approximately 52.72 acres.
- Corner points are referenced in:
NAD 1983 StatePlane North Carolina FIPS 3200 Feet.
- Service layer credits: NC CGIA, Maxar.





Outfall Canal Dredging Project

Outfall Farms Property Boundary



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Figure

4

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