

**PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY**

Meeting Date:	February 3, 2026	<input checked="" type="checkbox"/> Consent	<input type="checkbox"/> Regular
		<input type="checkbox"/> Workshop	<input type="checkbox"/> Public Hearing

Department:	Engineering and Public Works
Submitted For:	Roadway Production Division

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Service Authorization No. 1 (CSA) in the amount of \$463,155 to the Annual Mapping, Survey and LiDAR Processing Contract (R2022-1295) dated November 1, 2022 (Contract) with Surdex Corporation (Surdex) for Stormwater Geographic Information Services (GIS) Mapping (Project).

Summary: Approval of this CSA will provide the professional services necessary for the digital conversion of Palm Beach County's (County) drainage asset information, which is available in as-built construction plans, into an existing County GIS Stormwater database. This CSA is the first task to Surdex as part of Stormwater Master Plan Phase Two implementation, the inventory and mapping conversion of as-built plan sheets, of the Project. Phase One developed a new GIS database that set up the data collection framework and a GIS development work plan, geolocated about 10,000 pages of existing as-built roadway and drainage plans, and conducted a pilot project along Belvedere Road. In other words, Phase One provided information needed to establish the digital conversion in Phase Two. As part of this CSA, drainage information within 2005 as-built plan sheets will be digitized. The Contract was presented to the Goal Setting Committee (GSC) on August 18, 2021 and the GSC established Affirmative Procurement Initiatives (API) of a 20% minimum mandatory Small Business Enterprise (SBE) participation and an SBE evaluation preference. Surdex committed to 20% SBE participation. The proposed SBE participation for this CSA is 0%. To date, the overall SBE participation achieved on this Contract is 0%. Countywide (YBH)


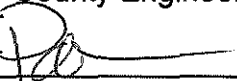
Background and Justification: On November 1, 2022, the Board of County Commissioners (BCC) approved the Contract with Surdex to provide professional services for digital orthophotography and planimetric mapping throughout the County, using the Information System Services Department's professional services contract. The fee, as detailed in Exhibit B of the attached CSA, has been negotiated as just and reasonable compensation as follows:

Basic Services (Lump Sum)	<u>\$463,155.00</u>	(Conversion of As-Built Drawings)
Total:	\$463,155.00	

After reviewing the attached CSA and finding it in proper order, the Engineering and Public Works Department recommends BCC approval.

Attachments:

1. CSA No. 1 with Exhibits A, B, C, D and Ebix Insurance Compliance (2)

Recommended by:		16 JAN 2026
YBH/TEL	County Engineer	Date
Approved By:		1/23/26
	Deputy County Administrator	Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2026	2027	2028	2029	2030
Capital Expenditures	\$563,155	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues	-0-	-0-	-0-	-0-	-0-
Program Income (County)	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County)	-0-	-0-	-0-	-0-	-0-
NET FISCAL IMPACT	\$563,155	-0-	-0-	-0-	-0-
# ADDITIONAL FTE POSITIONS (Cumulative)	-0-	-0-	-0-	-0-	-0-

Is Item Included in Current Budget?

Yes ☒ No ☐

Is this item using Federal Funds?

Yes ☐ No ☒

Is this item using State Funds?

Yes ☐ No ☒

Budget Account No:

Fund	Dept	Unit	Object
3900	361	1911	3120

Recommended Sources of Funds/Summary of Fiscal Impact:

Capital Outlay Fund/Stormwater GIS Mapping

Brief Description: New consultant service authorization (CSA) #1

CSA #1

• Basic Services	\$463,155.00
Total CSA #1	\$463,155.00

Estimated Staff Costs

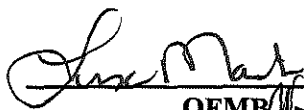
• Roadway Production	\$100,000.00
Total Staff Costs	\$100,000.00

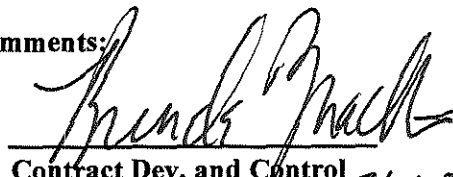
Fiscal Impact	\$563,155.00
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C. Departmental Fiscal Review:

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Dev. and Control Comments:


OFMB 1/20/26
1/20/26


Contract Dev. and Control 1/22/26
26.1.22.26

B. Approved as to Form and Legal Sufficiency:


Assistant County Attorney 1/23/26

C. Other Department Review:

Department Director

This summary is not to be used as a basis for payment. 2

**CONSULTANT SERVICE AUTHORIZATION NO. 1
UNDER THE ANNUAL MAPPING, SURVEY
AND LIDAR PROCESSING CONTRACT**

Project Name: **Stormwater GIS Mapping**

Project No: **2020601**

Commission District No.: **Countywide**

	SBE
Participation for this authorization	0%
Participation to date for this Contract	0%
Contract Commitment	20%
This authorization is under the EBO Ordinance.	

**PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS**

Account No.: 3900-361-1911-3120

Consultant Service Authorization No. 1 (CSA) under the Annual Mapping, Survey and Lidar Processing Contract dated November 1, 2022 (R2022-1295), as amended on October 8, 2024 (R2024-1331) (CONTRACT), between the COUNTY and the CONSULTANT identified herein is for the services described in **EXHIBIT A** and **EXHIBIT B** for this CSA.

1. CONSULTANT: Surdex Corporation
2. Address: 520 Spirit of St. Louis Boulevard Chesterfield, MO 63005
3. CONSULTANT shall begin work promptly on the requested Services, per the schedule attached as part of **EXHIBIT A**.
4. Scope of Services to be provided by CONSULTANT: Provide professional services to Palm Beach County for the Stormwater GIS Mapping project to convert as-built map sheets into an existing Palm Beach County Stormwater GIS database in accordance with the attached **EXHIBIT A** dated September 30, 2025.
5. The compensation to be paid CONSULTANT for providing the requested services as detailed in **EXHIBIT B** shall be:

[x] Basic Services in a lump sum fee of

\$463,155.00

Totaling

\$463,155.00

[x] OEBO Schedules 1 & 2 **EXHIBIT C**

[x] Project History **EXHIBIT D**
6. All terms of the CONTRACT, as amended shall apply to this CSA.

This Contract, including all Schedules, Forms, and attachments, is subject to the County Emergency Ordinance 2025-014, approved by the BCC on June 3, 2025. As a result, the M/WBE participation will not be enforced.

**CONSULTANT SERVICE AUTHORIZATION NO. 1
UNDER THE ANNUAL MAPPING, SURVEY
AND LIDAR PROCESSING CONTRACT**

IN WITNESS WHEREOF, this CSA is accepted as of the date signed by the COUNTY below,
subject to the terms and conditions of the aforementioned CONTRACT, as amended.

CONSULTANT: **Surdex Corporation**
Federal ID: **43-0690641**

COUNTY:

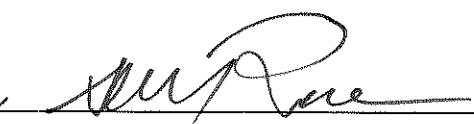
Approved as to Terms and Conditions

Signed: 

Typed Name: **Andy Dearing**

Title: **Vice President**

Date: **9/30/2025**

By: 

Typed Name: **Morton L. Rose, P.E.**

Title: **Division Director**

(Corporate Seal)

ATTEST WITNESS:

Signed: 

Typed Name: **RACHAEL DONALDSON**

Title: **EXEC. ASSIST.**

Date: **9/30/25**

**CONSULTANT SERVICE AUTHORIZATION NO. 1
UNDER THE ANNUAL MAPPING, SURVEY
AND LIDAR PROCESSING CONTRACT**

{SIGNATURE PAGES CONTINUED}

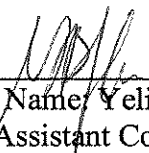
COUNTY: Palm Beach County, a Political
Subdivision of the State of Florida, by and
through its Board of County Commissioners

Signed: _____
Typed Name: Sara Baxter
Title: Mayor
Date: _____

ATTEST:
Michael A. Caruso
Clerk of the Circuit Court & Comptroller

By: _____
Deputy Clerk

Approved as to Form and Legal Sufficiency

By:  _____
Typed Name: Yelizaveta B. Herman
Title: Assistant County Attorney

*f:\roadway\ccna\annuals\from other
departments\surdex\2020\2020601 gis data
conversion\csa and supplement template.docx*

PROPOSAL

Scope and fee ok
CB - 10/2/25

Palm Beach County Stormwater GIS Data Conversion Project

PBC Project: 2020601

DATE September 30, 2025

SUBMITTED TO

Carlos Bojorge, PE
Special Projects Section Manager
Roadway Production Division
Palm Beach County Engineering & Public Works Department
2300 N. Jog Road., 3rd Floor W.
West Palm Beach, FL 33411
(561) 684-4126
Email: cbojorge@pbc.gov

SUBMITTED BY

Steve Kasten PLS, CP, PSM
Vice President, Business Development
Surdex Corporation
520 Spirit of St. Louis Blvd.
P.O. Box 3980
Chesterfield, MO 63005
Mobile: (314) 378-6884
Email: stevek@surdex.com

Project Description

Palm Beach County is covered by approximately 10,000 as build map sheets containing their stormwater infrastructure as-built drawings. These drawings exist within the Palm Beach database in scanned raster format and have been geo-located by the County. This project includes the conversion of these as-built map sheets into a existing Palm Beach County stormwater GIS database. Surdex Corporation is proposing to convert each mapsheet as outlined in Appendix A of this proposal. This process will involved digitizing a selected set of planimetric features from each map sheet and interpretation of the appropriate map features from the as-built sheets. Once compiled, the required map sheet features and attributes will be loaded into the the GIS database.

We are proposing to perform the conversion on 2005 as-built mapsheet covering the following watersheds:

- C-17
- Jupiter Farms
- North Loxahatchee Estuarine
- Grove
- Loxahatchee Estuarine
- Pal Mar
- Historic Cypress Creek
- Loxxahatchee Wild and Scenic
- C-18/Corbett

We would propose a two phase process:

- **Phase One**
 - Perform the conversion of 400 mapsheets to design and refine our product process
- **Phase Two**
 - Perform the conversion of 1605 mapsheets in full production mode

Fee Schedule

FEE SCHEDULE		
SERVICES	PRICE PER SHEET	PRICE
Phase One 400 Mapsheets	\$231	\$92,400
Phase Two 1605 Mapsheets	\$231	\$370,755
TOTAL 2005 Map Sheets		\$463,155 ✓

PRELIMINARY PRODUCTION SCHEDULE				
ITEM	PHASE	DAYS	NUMBER OF MAP SHEETS	DELIVERY DATE
1	1A	30	200 Map Sheets	30 days after NTP
2	1B	30	200 Map Sheets	60 days after NTP
3	2A	30	400 Map Sheets	90 days after NTP
4	2B	30	400 Map Sheets	120 days after NTP
5	2C	30	400 Map Sheets	150 days after NTP
6	2D	30	405 Map Sheets	180 days after NTP

APPENDIX A: STATEMENT OF WORK

TASK BACKGROUND

The COUNTY is one of 40 co-permittees on a federal Clean Water Act-mandated National Pollutant Stormwater Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit (FLS000018-004) administered by the Florida Department of Environmental Protection (FDEP). Permit requirements are intended to reduce stormwater pollutant discharges into receiving surface water bodies and improve water quality. Specific requirements include maintaining an up-to-date stormwater infrastructure inventory, inspecting and maintaining stormwater infrastructure, monitoring water quality, and preparing annual reports. To comply with the permit requirements, the County wishes to develop a detailed inventory of stormwater assets via a Geographical Information System (GIS). While focusing on the MS4 permit compliance, the inventory and GIS is envisioned to provide an essential and critical foundational framework for expansion into related needs such as identification and evaluation of flooding, community rating system/flood insurance analyses, water quality total maximum daily load solution strategies, asset management and infrastructure replacement planning, facilitation of vulnerability assessments, and enabling future comprehensive water resources management planning.

The County has developed a new Stormwater GIS database under County Project No. 2020601 and roadway plans archives have been mapped to the spatial locations for the County Roadways. This project will perform the data population for the designated basin areas from the existing plans following the standard procedures and protocols developed in the previously completed Stormwater GIS Data Conversion Procedures.

The County will provide the data model to use as well as rectified as-built drawings to be used for the task. The consultant will utilize as-built drawings, county aerials, and publically available street side images to digitize inlet nodes and drainage pipes for the county’s stormwater collection system in the County’s stormwater GIS data model. This task will also include planimetric mapping of stormwater treatment ponds and swales (both wet and dry) which collect drainage from the County’s drainage collection system. Stormwater Assets are comprised of:

- a. Stormwater conveyance (pipes, inlets, canals, ditches)
- b. Water quality (Exfiltration trenches)
- c. Control structures
- d. Ponds

The following is a description of the task initial services:

BASIN AREA DATA POPULATION

Consultants will implement the workflows developed in the workplan for collecting and entering the stormwater infrastructure for an assigned drainage basin area of County roadway jurisdiction, based of South Florida Water Management District watersheds.

The attribute fields from the Stormwater GIS Data Conversion Procedures, Section 2.8.2.4, will be populated where data is available from the plans for stormwater pipes and stormwater features including:

- Feature name
- Pipe diameter or dimensions
- Pipe Geometry
- Direction of Flow

- Pipe, MH, CB - Invert, Rim Bottom, Elevation(s)
- Material
- Install Date
- Source plan ID
- Datum
- Owner/Maintained by
- Editor data
- Legacy ID
- Outfall Attributes
- Weir Data

DELIVERABLES:

1. Consultant will submit an updated Stormwater GIS database every month along with an progress list of the plan sheets already digitized. Submittal should include:
 - a. Stormwater GIS database
 - b. Spreadsheet containing plans sheet already mapped along with a progress report.
 - c. Updated schedule for the pending activities
 - d. Invoice for the work already done
 - e. Data Conversion Issues experienced.
2. The County will perform a Data Conversion QA Procedures containing:
 - a. Check of digital data delivery and hard copy supporting documents
 - b. Automated database checks using QA software
 - i. Domain Checks
 - ii. Null and Zeroes Check
 - iii. Uniqueness Check
 - iv. Default Value Check
 - v. Duplicate Geometry Check
 - vi. To and From Pipeline Generation Check
 - vii. Connectivity Check
 - c. Feature inspection based on a randomly selected sample set using ANSI standards
 - d. Context check of plots within the delivery area.
 - e. Field Survey and Feature Placement Check
3. The County will accept or reject monthly deliverables from the Conversion contractors based on the data checks listed above.
 - a. If accepted, the County will append the new data into the master stormwater GIS database. "New" data refers to any data that was added since the County last refreshed their stormwater GIS database.
 - b. If rejected, Consultant will return the rejected QA/QC checklist along with an 'Additional Work Marker' (AWM) GIS layer to the respective firm(s), detailing the issues that require resolution. County will return the rejected database to the respective firm(s) within four weeks of initially receiving it for QA/QC.

The QA process will be supported by software that performs automated checks, selects features to be sampled, and supports error reporting, and by a website to be developed to support project management, QA tracking, and communications between the conversion partnered firms and County.

Below you will find a link (Available for 30 days only) to the data from our Pilot project, As-builts used for our pilot project, and Stormwater GIS Data Conversion Procedures. Also attached you will find a recording link of the meeting held yesterday.

[PBC Stormwater Mapping - Belvedere Rd Pilot Project](#)

Thank you,

Carlos Bojorge, PE
Special Projects Section Manager
Roadway Production Division
Palm Beach County Engineering
& Public Works Department
2300 N. Jog Rd., 3rd Floor W.
West Palm Beach, FL 33411
(561) 684-4126

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Project Name: Surdex Storm Water GIS Conversion
County: PBC

GIS Services	Price Per Mapsheet	Number of Mapsheets	Total Price
Perform CAD heads up digitizing, GIS data conversion, attribution and data base generation from existing scanned storm water mapsheets	\$231	2,005	\$463,155 ✓

SOLICITATION/PROJECT/BID NAME: Stormwater GIS Data Conversion

SOLICITATION/PROJECT/BID NO.: 2020601

SOLICITATION OPENING/SUBMITTAL DATE: June 6, 2025

COUNTY DEPARTMENT: Engineering and Public Works Dept.

Section A PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT* ON THE PROJECT:

NAME OF PRIME RESPONDENT/BIDDER: Surdex Corporation ADDRESS: 520 Spirit of St. Louis Blvd., Chesterfield, MO 63005

CONTACT PERSON: Steve Kasten PHONE NO.: 636.378.6884 E-MAIL: stevek@surdex.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$463,155
SBE Prime's must include their percentage or dollar amount in the Total Participation line under section B. Non-SBE ☒ SBE ☐

Section B PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT BELOW:

Subcontractor/Sub consultant Name	(Check all Applicable Categories)		DOLLAR AMOUNT OR PERCENTAGE OF WORK
	Non-SBE	SBE	
1. Whidden Surveying & Mapping	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$46,315
2.	<input type="checkbox"/>	<input type="checkbox"/>	
3.	<input type="checkbox"/>	<input type="checkbox"/>	
4.	<input type="checkbox"/>	<input type="checkbox"/>	
5.	<input type="checkbox"/>	<input type="checkbox"/>	

(Please use additional sheets if necessary)

Total Bid/Offer Price \$ \$463,155
Total Certified SBE Participation \$ \$46,315

I hereby certify that the above information is accurate to the best of my knowledge: Andy Dearing
Name & Authorized Signature
Executive Vice President, Division Mgr.
Title

- Note:
- The amount listed on this form for a Subcontractor/sub consultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
 - Only those firms certified by Palm Beach County at the time of solicitation due date are eligible to meet the established OEBO Affirmative Procurement Initiative (API). Please check the applicable box and list the dollar amount or percentage under the appropriate demographic category.
 - Modification of this form is not permitted and will be rejected upon submittal.
 - If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation.

OEBO LETTER OF INTENT – SCHEDULE 2*

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/ subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2020601

SOLICITATION/PROJECT NAME: Stormwater GIS Data Conversion

Prime Contractor: Surdex Corporation Subcontractor: Whidden Surveying & Mapping, Inc.

(Check box(s) that apply)

☒ SBE ☐ Non-SBE ☐ Supplier Date of Palm Beach County Certification (if applicable):

SBE PARTICIPATION – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	CAD Digitizing and GIS Data Conversion	1	1	N/A	\$46,315

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$46,315

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage:

Surdex Corporation
Print Name of Prime
By: Andy R. Dearing
Authorized Signature
Andy Dearing
Print Name
Executive Vice President, Division Manager
Title
Date: 09/03/2025

Whidden Surveying & Mapping, Inc.
Print Name of Subcontractor/subconsultant
By: Thomas Whidden
Authorized Signature
Thomas Whidden
Print Name
PRESIDENT
Title
Date: 05 Sep 25

*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025

Exhibit D

Stormwater GIS Data Conversion							
Project # 2020601 - R2022-1295 - Surdex Corporation							
Contract API(s):				n/a			
Contract Commitment:				20%			
GSC Date:				April 28 2022			
Executed By	Project #	CSA #	Supplement #	Date Approved	Total Amount	SBE	
						Total \$	Total %
BCC	2020602	1		Pending	\$ 463,155.00	\$ -	0.00%
Project Totals					\$ 463,155.00	\$ -	0.00%
This Contract is subject to the provisions of Emergency Ordinance 2025-014 approved by the BCC on June 3, 2025. As a result, the M/WBE participation is not enforceable.							



Palm Beach County
Compliance Summary Report

Vendor Number	Vendor Name	AM Best Rating	Insurance Carrier	Policy #	Eff. Date	Exp. Date	Coverage	Contract Number	Contract Name
DX00003367	Surdex Corporation	Modified	Compliant					R2022-1295	Annual Mapping, Survey and Lidar
		A++g , XV	The Travelers Indemnity Company of America	8105880B353	8/31/2025	8/31/2026	Auto Liability		
		A++g , XV	Travelers Property Casualty Company of America	CUP6J395074	8/31/2025	8/31/2026	Excess Liability		
		A++g , XV	The Charter Oak Fire Insurance Company	P630A3238719COF25	8/31/2025	8/31/2026	General Liability		
		A++g , XV	Berkshire Hathaway Specialty Insurance Company	47EPP33066603	8/31/2025	8/31/2026	Professional Liability		
		A++g , XV	Travelers Property Casualty Company of America	UB6J317115	8/31/2025	8/31/2026	Workers Comp		

Risk Profile : Standard - Professional Services
Required Additional Insured : Palm Beach County Board of County Commissioners
Ownership Entity :