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

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**Meeting Date:** October 6, 2015 [ ] Consent [x] Regular
[ ] Public Hearing [ ] Workshop

**Department:**

**Submitted by:** Information Systems Services
**Submitted for:** Countywide GIS Program

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## I. EXECUTIVE BRIEF

**Motion and Title: Staff recommends motion to:**

A. **Approve** electronic submittal of a grant application and associated documents to the U.S. Geological Survey (USGS) for a 3D Elevation Mapping Program (3DEP) Grant No. G15PS00558 in the amount of $228,000 with a local match of $342,000 for a total project cost of $570,000 expected to begin January 2016 and end December 31, 2017;

B. **Adopt** a Resolution permitting the County to advance funding to USGS to initiate the mapping if Palm Beach County is awarded the grant; and

C. **Authorize** the County Administrator or her designee, ISS Director, to approve the grant agreement from USGS.

**Summary:** The USGS has published a Broad Agency Announcement for the 3DEP grant program which will fund awarded projects to acquire Light Detection and Ranging (LiDAR) mapping for critically targeted geographic areas that have been identified by multiple federal agencies. These agencies have identified southern coastal areas as a priority, as well as locations without LiDAR coverage, or where existing data are eight years or older. Palm Beach County fits these criteria. The LiDAR data will be used to assist with the FEMA corrected flood maps. The LiDAR base data has value for developing additional products via Task Orders for many other uses across several departments and agencies. Staff is exploring cost-sharing partnerships where at least two entities have expressed an interest in participating in the grant application. The total project amount is $570,000 of which the local match for the 3DEP grant, if awarded, is estimated to be 60% or $342,000. The grant funding if awarded will go to USGS. We hope to lower the County's obligation by entering into interlocal agreements with other local entities. SFWMD has agreed to contribute $81,000 upon receipt of the deliverable. A Resolution is provided to enable the County to advance funding to the USGS under this grant. (Countywide) (PFK)

**Background and Justification:**
*Continued on page 3...*

**Attachments:**

1. Draft Grant Application
2. Resolution
3. Letters of support for the LiDAR acquisition

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Recommended by: Steve Bordelon 9-18-2015
Department Director Date

Approved by: 9/30/2015
County Administrator Date

## II. FISCAL IMPACT ANALYSIS

### A. Five Year Summary of Fiscal Impact

| Fiscal Years | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|
| Capital Expenditures | $342,000 | $0 | 0 | 0 | 0 |
| Operating Costs | $0 | 0 | 0 | 0 | 0 |
| External Revenues | ($115,640*) | ($0) | $0 | $0 | $0 |
| Program Inc (County) | 0 | 0 | 0 | 0 | 0 |
| In-Kind Match (County) | 0 | 0 | 0 | 0 | 0 |
| **NET FISCAL IMPACT** | **$226,360** | **$0** | **$0** | **$0** | **$0** |
| # Additional FTE Positions (Cumulative) | 0 | 0 | 0 | 0 | 0 |

Is Item Included in Current Budget Yes X No ___

Operating Budget Number: Fund TBD Dept TBD Unit TBD Object TBD**
Revenue Budget Number: Fund _____ Dept ____ Unit ____ RevSrc ____

**B. Recommended Sources of Funds / Summary of Fiscal Impact**
*This amount consists of the expected contributions from external agencies to the best of our knowledge as of 9/17/15 as indicated below:

| | |
|---|---|
| South Florida Water Management District | $81,140 |
| Lake Worth Drainage District | $25,000 |
| City of Boynton Beach | $ 9,500 |

This figure could increase before the final grant is awarded which will further lower the County's obligation. The grant award of $228,000 will not be received by the County but sent directly to USGS. Therefore, it is not included in the above analysis.

**Per the GIS Policy Advisory Committee meeting on 9/16/15, specific accounts to advance payment have yet to be discretely identified. However, these accounts will be identified by the final grant award.

**C. Department Fiscal Review:** 9/18/15

## III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development & Control Comments:

9/18 9/22 OFMB

9/29/15 Contract Administration B Wheeler 9-29-15

B. Legal Sufficiency:

9/29/15
Assistant County Attorney

C: Other Department Review:

_____
Department Director

**THIS SUMMARY IS NOT TO BE USED AS A BASIS FOR PAYMENT.**

*Continued from page 1...*

**Background and Justification:** The LiDAR maps provided through the 3DEP grant must meet their stringent specifications. In order to minimize risk it is preferred to have the grantor manage and provide quality assurance under their existing, certified mapping vendors. This requires the County to advance payment to this federal agency (USGS). Funding for the County's portion has been identified in Planning, Zoning and Building and County Administration budgets.

Interest in the LiDAR data has been expressed for developing contours to determine water drainage flow, flood mapping, evacuation zones and sea level rise; for measuring buildings and obtaining building footprint information for code enforcement and appraisal purposes; and for agriculture analysis, urban planning and archaeology, among other uses.

With this grant, the base LiDAR data would be acquired and the data would be hosted and distributed by ISS. Additional task orders will be determined based on funding and partnerships developed by Countywide GIS for projects that cross jurisdictional boundaries such as water planning, hydrological studies and infrastructure plans.

Letters and emails of support are also attached.

DRAFT

ATTACHMENT 1

US Geological Survey
Broad Agency Announcement for 3D Elevation Program (3DEP)
G15PS00558
Pre-proposal Submission

*Instructions: Enter text or value. Press TAB to register the entry in other parts of the submission tool.*


Organization: Palm Beach County Board of County Commissioners Date: 8/24/15

POC:
First Name: Christine Last Name: Benkly Title: Countywide GIS Coordinator

Street Address: 2300 N. Jog Rd

City: West Palm Beach State: FL Zip Code: 33411

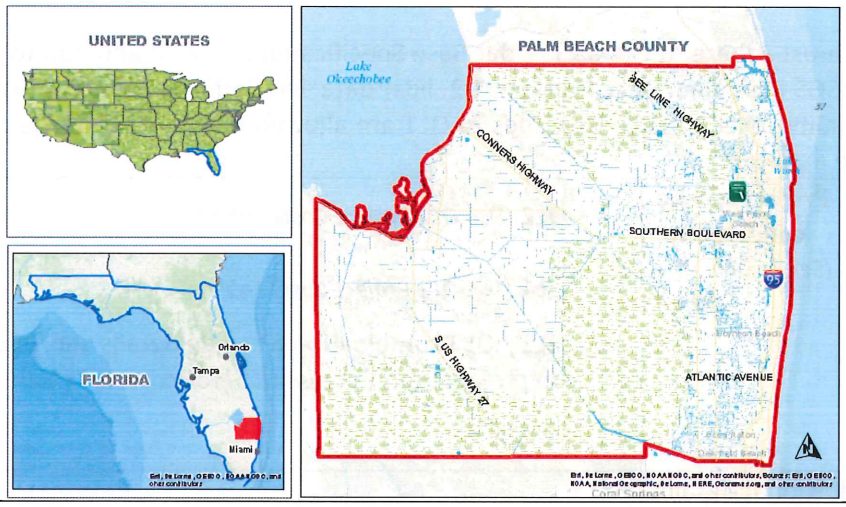
Email Address: cbenkly@pbcgov.org Phone: (561)233-5305


Additional Details or Clarifications:

| | |
|---|---|
| **Project Title:** *(300 characters maximum)* | 2016 Palm Beach County LiDAR Project |
| **Project Summary:** *(3000 characters maximum)* | Please provide a summary of your project. Summary should include purpose and justification of proposed acquisition and relationship of project to existing, in-work, or planned acquisitions.<br><br>Palm Beach County (PBC) recognizes the need for high-quality topographic data as a foundation for a wide range of applications including flood risk management, infrastructure management, building footprints and surface models, agriculture management, natural resource conservation, coastal feature mapping and transportation studies.<br><br>PBC is proposing a multi-agency partnership with key stakeholders funding the initial LiDAR data acquisition. Many of the County's 38 municipalities support the project and plan to partner with PBC in acquiring additional products. PBC Countywide GIS has built a mature enterprise GIS infrastructure for managing and distributing large datasets.<br><br>PBC has been identified as an FY16 Federal Area of Interest for LiDAR data acquisition by NOAA and USACE. There is no existing LiDAR data for almost 300 square miles of PBC, and existing LiDAR for the remainder of the PBC is over eight years old and does not meet QL2 standards. This project will further the quality and availability of three dimensional elevation data and provide great benefits to the citizens of PBC.<br><br>PBC is requesting a $228,000 USGS award, a 40% cost share of the estimated $570,000 project. |

| | |
|---|---|
| | PBC is located in southeast Florida bordering Lake Okeechobee and the Everglades on the west and south, and the Atlantic Ocean on the east. PBC's approximately 2000 square miles is made up of a diversity of native habitat and urban development.<br><br>Several existing projects and initiatives in PBC will benefit greatly from the availability of high quality LiDAR data:<br><br>Natural Areas - PBC owns or leases 48 square miles of natural areas to preserve rare and diverse native ecosystems and endangered, threatened, and rare species of plants and animals.<br><br>Sea Level Rise - With an estimated maximum elevation of less than 60 feet, high resolution elevation data is critical for flood risk management and sea level rise studies.<br><br>Emergency Management - PBC's forty-five mile coastline is extremely vulnerable to hurricanes and tropical storms and effective storm surge modeling and evacuation route planning require accurate elevation data. Flooding risks also exist in low lying inland areas and the western regions bordering Lake Okeechobee along the USACE Herbert Hoover Dike.<br><br>National Flood Insurance Rate Maps – PBC's current DFIRMs are almost 20 years old. Updated elevation data will benefit the citizens of PBC by providing accurate base flood elevations and improved flood insurance rate determinations.<br><br>Everglades Restoration - Recognizing that a healthy ecosystem is vital to a healthy economy, a number of initiatives are underway to improve water quality, increase water storage and re-establish more historic flows.<br><br>National Flood Insurance Program Community Rating System (CRS) – Building footprints and base flood elevations can be derived from accurate LiDAR data, providing additional points toward Public Information Activities for PBC's CRS submittal. |

## GEOGRAPHIC EXTENT OF PROJECT

| | |
|---|---|
| **State(s):** | FL |
| **Geographic Extent:** | X County(ies) Please specify: Palm Beach<br>☐ Watershed Please specify:<br>☐ Other Please specify: |
| **Square Miles:** | 2000 *Note: Please hit TAB after entering square miles to autopopulate "Square Miles" field in project finance tables.* |
| **Project Diagram:** | Insert a jpeg or other picture by clicking on the center of the image box below or by using copy (CTRL-C)/paste (CTRL-V).<br>  |
| **Project GIS File:**<br>*Acknowledgement required; please read and check box* | A vector GIS file defining the location and coverage area of your project is required for pre-proposal submission; it is understood that the project area may be adjusted prior to the submission of a full proposal. Your project area must be represented by a polygon in shapefile or KML/KMZ format. The file name should use the following naming convention: ST_Geographic Description where:<br>ST= State Abbreviation (ex. AL. or UT); AND<br>Geographic Description (ex. Blue_Arrow_Middle_Counties or Eastern_Utah_6_Counties)<br>*Note: Minimum shapefile components required are: .shp, .sbx, .dbf, .prj.*<br>X A project vector GIS file with proper file name and format has been submitted as a part of the proposal submission package. |
| **Additional Details or Clarifications:** | Letters of support from supporting municipalities, water control districts and other regional agencies will be provided with the final submission. |

**PROPOSED TIMELINE**

| | |
|---|---|
| **Acquisition:** *(Select Only One Option)* | x Spring 2016<br>☐ Fall 2016 /Winter 2017<br>☐ Other: |
| **Additional Details or Clarifications:** | |

**DATA SPECIFICATION**

Data must adhere to the USGS Lidar Base Specifications v1.2. In addition to the requirements outlined in the USGS Base Lidar Specification v1.2, lidar data and derived products must meet the current definition of Quality Level 2 (QL2). Upgrades to QL1 are allowed but the cost of the upgrades is the responsibility of the applicant.

| | |
|---|---|
| **Project will be collected to:** *(Select Only One Option)* | X QL2 *(Use QL2 Project Costs Table)*<br>☐ QL1 *(Use QL1 Project Costs Table)*<br>☐ QL1 / QL2 combination (Provide details and/or delineate QL1 and QL2 Areas on project graphic) *(Use QL1 Project Costs Table)*<br>☐ Other: |
| **Additional Details or Clarifications:** | |

**DATA DELIVERABLES**

Standard 3DEP deliverables are defined in the USGS Lidar Base Specification v1.2

| | |
|---|---|
| **Final Project Deliverables:** *Acknowledgement required; please read and check box* | Standard period of performance for lidar acquisition projects is 12 to 24 months. Project deliverables are **required** at the end of the performance period.<br>x The applicant agrees to provide all project deliverables to the USGS without use restrictions upon final acceptance of the project deliverables from applicant's contractor. |
| **Additional Products and Services:** | Additional products are available. The cost of additional products is the responsibility of the applicant and should be referenced and priced in the submission of a full proposal. Selection of additional deliverables is not required in the submission of a pre-proposal. |

**APPROACH TO DATA ACQUISITION**

| | |
|---|---|
| **Mechanism:** *(Select Only One Option)* | X **USGS Geospatial Products and Services Contract (GPSC)**<br>Applicant enters into agreement with the USGS GPSC to procure data. The USGS National Geospatial Program's preferred method of data acquisition is through the GPSC, a multiple award acquisition vehicle that is designed to utilize the teams of firms on the contract for services needed to accomplish 3DEP data acquisition.<br>☐ **Cooperative Agreement**<br>Applicant manages data procurement (detail technical approach below). |
| **Technical Approach (Cooperative Agreement Only):** *(1500 characters maximum)* | Please provide a qualifications statement describing your proposed technical approach for acquiring and performing quality assurance of lidar data and derived products. Include information on your approach to selecting a vendor. If a vendor has already been selected please provide a brief summary of the vendor's experience and past performance as related to the acquisition and processing of lidar data that meets USGS Base Lidar Specification v1.2 |

**PROJECT FINANCES**

Project Costs

It is understood that the cost estimates in pre-proposals may change before final submission. Cost estimates should be sufficient to allow 3DEP to evaluate the project costs and the percentage of the project costs that are being requested from the 3DEP program. To calculate your project costs use **EITHER** the QL2 Project Costs table **OR** the QL1 Project Costs table. For projects that contain a combination of QL1 and QL2 use the QL1 Project Costs table.

QL2 Project Costs

The 3DEP uses an average figure of $335.00 per square mile (QL2) to estimate the cost of lidar collection over the United States. This average cost includes data acquisition, processing, 3DEP quality assurance/quality control as well as project/contract management (including 5% assessment for the use of the USGS GPSC). Collection, processing and contract management costs represent about 85 percent ($285 per square mile) of the total cost for QL2 data. It is important to note that as this is an average cost, in some geographic areas of the country the price will be higher, and for some the cost to acquire the data will be lower. For the pre-proposal, applicants may choose to use the $285 figure to estimate their project acquisition, processing and assessment cost or alternately they may provide another cost estimate together with an explanation of how the cost estimate was derived to enable an evaluation of the costs.

| | | |
|---|---|---|
| **QL2 over entire Project Area:** *(Select Only One Option)* | X | The applicant is using the average 3DEP QL2 acquisition, processing and contract management cost of $285 per square mile to estimate project costs. |
| | ☐ | The applicant is using an alternate QL2 figure to estimate project acquisition and processing costs.<br>Please provide explanation of how estimated cost was derived: |

| | | Square miles | Cost per square mile | Costs |
|---|---|---|---|---|
| Total project area | | 2000 | | |
| Cost of 3DEP base data (QL2) for project area<br><br>3DEP-will consider cost share on this portion of the project costs | | | | |
| *(Use One Estimate Option Only)* | Estimate using the 3DEP average base price | 2000 | $285 | $570,000.00 |
| | Estimate from Other source | 2000 | $0.00 | $ 0.00 |

QL1 Project Costs

QL1 Project Costs vary significantly by geographic area. For applicants proposing to use the Geospatial Products and Services Contracts for data acquisition, please work with the GPSC team (gpsc@usgs.gov) to obtain a cost estimate for your proposed project. This option must be requested no later than 08/01/15 to meet the 08/25/15 deadline for project submission. For those applicants proposing to manage their own data acquisition, please provide an explanation sufficient to enable evaluation of how the cost was derived. 3DEP will evaluate an applicant's proposed cost share based on the average 3DEP QL2 acquisition and processing cost of $285 per square mile over the project area. Upgrade costs (the difference between QL1 and QL2) are the responsibility of the applicant.

| | |
|---|---|
| **QL2 Base Data with QL1 Data over selected areas or QL1 Data over entire area:** *(Select Only One Option)* | ☐ **QL1/QL2** The applicant requires QL1 data over at least a portion of the project area and has received a cost estimate from the GPSC team for the total cost to acquire and process both the QL1 data and the QL2 data components of their project area. |
| | ☐ **QL1/QL2** The applicant requires QL1 data over at least a portion of the project area and has used an alternate (non GPSC) source to estimate project costs. *Please provide explanation of how estimated cost was derived: |

| | | Square miles | 3DEP Average Cost per square mile | Costs |
|---|---|---|---|---|
| Total project area | | 2000 | | |
| Total project costs (both QL1 and QL2 areas) | | | | |
| *(Use One Estimate Option Only)* | Estimate from GPSC | | | |
| | Estimate from Other source | | | |
| Cost of 3DEP base data (QL2) for project area 3DEP cost share calculated on this portion of the project costs | | 2000 | $285 | $570,000.00 |
| Applicant responsible for the full cost of this (upgrade to QL1) portion of the project | | | | ($570,000.00) |

## Proposed Funding

Applicant shall enter the proposed funding partners and the total funding available from each partner. For the pre-proposal, the applicant may choose to enter a generic "funding partners" to provide the estimated amount that will be contributed collectively by the funding partners. In the full proposal, all funding partners must be individually listed.

| **Total Estimated Project Cost *(from previous page)*:** | $570,000.00 | | | |
|---|---|---|---|---|
| **Funding Partner(s)** | **Proposed Contribution Amount** | **% Cost Share for 3DEP Base Data over area** | **Certainty of Contribution** (Guaranteed, Pending) | **If funding is 'Pending'-** (not yet guaranteed)**; note date** (MMM YYYY) **when funding decision will be final.** |
| Palm Beach County | $226360.00 | | Pending | October 2015 |
| South Florida Water Management District | $81140.00 | | Pending | October 2015 |
| Lake Worth Drainage District | $25000.00 | | Pending | October 2015 |
| City of Boynton Beach | $9500.00 | | Pending | |
| | $ | | Choose One | |
| | $ | | Choose One | |
| | $ | | Choose One | |
| | $ | | Choose One | |
| | $ | | Choose One | |
| | $ | | Choose One | |
| Funding Partner Totals *(from above)* | $342,000.00 | 60% | | |
| Cost of 3DEP base data (QL2) for project area (from previous page) 3DEP cost share calculated on this portion of the project costs | $570,000.00 | | | |
| Funds Requested from 3DEP | $228,000.00 | 40% | | |

**ADDITIONAL PROJECT DETAILS OR CLARIFICATIONS**

*(1500 characters maximum)*

**RESOLUTION NO. R-2015-**

**RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA, AUTHORIZING THE GRANTOR TO MANAGE THE CAPTURE OF LIGHT DETECTION AND RANGING (LIDAR) DATA FOR PALM BEACH COUNTY BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) USING VENDORS CERTIFIED THROUGH THEIR 3D ELEVATION PROGRAM (3DEP); AND APPROVE THE ADVANCED FUNDING OF THE GRANT AGREEMENT WITH USGS; AND PROVIDING FOR AN EFFECTIVE DATE.**

**WHEREAS**, Palm Beach County (County) has never done this type of mapping before; and

**WHEREAS**, the County does not have the expertise in this area; and

**WHEREAS**, USGS does have the expertise and has demonstrated it by providing LIDAR mapping in other areas of Florida; and

**WHEREAS**, this would increase the efficiency and adherence to the 3DEP grant requirements; and

**WHEREAS**, the County is dealing with an agency of the Federal Government; and

**WHEREAS**, one grant requirement is that the County pay a certain amount up front to USGS for the LIDAR mapping; and

**WHEREAS**, doing so makes the County more likely to be awarded the grant; and

**WHEREAS**, this will reduce the County's cost share for obtaining LIDAR data.

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA**, that:

**Section 1. Purpose**

The purpose of this Resolution is to authorize USGS to capture LIDAR data for the County using their experienced and certified vendors, and allowing the County to make payment to USGS, a Federal Agency in advance of the work being completed as per the 3DEP grant program requirements.

**Section 2. Use and Benefit of LIDAR Data**

LIDAR data will assist with the FEMA corrected Flood Zones, updating models for modifications to Evacuation Zones, Archaeology studies, Sea Level Rise analysis, Hydrological studies, developing building outlines for change detection and more. It will provide benefit for all the residents of Palm Beach County through the advanced planning and modeling that can be achieved. The LIDAR data is of value to every public entity in the County.

**Section 3. Approval of Advanced Funding**

As a condition of the USGS's approval of the grant application by the County, advance funding of the County's portion of the LIDAR mapping costs must be provided to USGS, a federal government agency. For this reason the Board of County Commissioners finds that the public interests would be served by providing advance funding to USGS under the grant program.

**Section 4. Severability**

If any section, sentence, clause, phrase, or word of this Resolution is held invalid or unconstitutional by a Court of competent jurisdiction, then said holding shall in no way affect the validity of the remaining portions of the Resolutions.

**Section 5. Effective Date**

This Resolution shall take effect upon its adoption by the Board of County Commissioners.

The foregoing Resolution was offered by Commissioner , who moved its adoption. The motion was seconded by Commissioner , and upon being put to a vote, the vote was as follows:

| | |
|---|---|
| Commissioner Shelley Vana, Mayor | - |
| Commissioner Mary Lou Berger, Vice Mayor | - |
| Commissioner Hal R. Valeche | - |
| Commissioner Paulette Burdick | - |
| Commissioner Steven L. Abrams | - |
| Commissioner Melissa McKinlay | - |
| Commissioner Pricilla A. Taylor | - |

The Mayor thereupon declared the Resolution duly passed and adopted this _____ day of _____, 2015.

PALM BEACH COUNTY, FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS

SHARON R. BOCK, CLERK & COMPTROLLER

By:_____
Deputy Clerk

APPROVED AS TO FORM AND LEGAL SUFFICIENCY

By:_____
Assistant County Attorney

ATTACHMENT 3

Village of Palm Springs
Land Development
226 Cypress Lane • Palm Springs, Florida 33461
(561) 965-4016 Fax (561) 439-4132

August 10, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

RE: LiDAR Mapping Initiative

Dear Ms. Benkly:

The Village of Palm Springs supports Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement for Solicitation Number: G15PS00558.

The Village of Palm Springs is a municipality of approximately 4 square miles with a population of 22,000 persons located within central Palm Beach County. Funding for a countywide Light Detection and Ranging (LiDAR) mapping initiative would provide numerous benefits. We envision that Palm Beach County along with the incorporated municipalities will work together cooperatively, sharing the acquired LiDAR data, to undertake projects that cross jurisdictional boundaries such as storm-water planning, hydrological studies, and infrastructure plans.

Countywide LiDAR will enhance the well-established geospatial database that is already available. Palm Beach County has the capabilities to accommodate the data collected through the LiDAR initiative, and is therefore an excellent candidate for the receiving the funding through the USGS 3D Elevation Program.

Please feel free to call me at (561) 965-4016.

Sincerely,

Kim Glas-Castro, AICP LEED AP
Land Development Director

SJE STORMWATER ENGINEERING, INC.

**1855 Indian Road, Suite 202**
**West Palm Beach, FL 33409**
stormj@fdn.com

(561) 242-0028
Fax 242-0109

August 13, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

**RE: LiDAR Mapping Initiative**
**SJE Project #91084.301**

Dear Ms. Benkly:

This letter is in support of Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement Solicitation Number G15PS00558.

ITID's interests are in better topo for flood mapping, stormwater planning, and hydrological studies.

We are entirely within Palm Beach.

Palm Beach County has a sophisticated geospatial data collection and management program that will allow it to facilitate data sharing and partnership coordination, thereby assisting us to provide improved services to our citizens. Palm Beach County has demonstrated a willingness to share resources with other government agencies (local, regional and state), and in our opinion makes them a well-qualified applicant for funding.

Please feel free to contact me if you have any questions.

Sincerely,

Jay G. Foy, P.E.
District Engineer, Indian Trail Improvement District

JGF/lam
Cc: James Shallman
Mary Viator

2015_0813 Benkly Ltr
91084.301

**500 Greynolds Circle**
**Lantana, FL 33462-4544**
**(561) 540-5000**
**Fax (561) 540-5009**
**www.lantana.org**



*"To Preserve Lantana's hometown atmosphere through responsible government and quality service."*

August 13, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

RE: LiDAR Mapping Initiative

Dear Ms. Benkly:

This letter is in support of Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement Solicitation Number G15PS00558.

Obtaining this data will provide a number of benefits, including:

- More accurate data for Flood Insurance Rate Maps
- Storm-water planning
- Hydrological studies
- Environmental assessments
- Infrastructure elevation and inventories for bridges, buildings, etc.
- Accurate data for estimating construction projects
- Updating evacuation zones

We certify that our jurisdiction is located within or overlapping Palm Beach County's jurisdictional boundary.

The County has a well-established geospatial data program and is in the best position to effectively manage the distribution of the large datasets that will result from this program. Palm Beach County has a sophisticated geospatial data collection and management program that will allow it to facilitate data sharing and partnership coordination, thereby assisting us to provide improved services to our citizens. Palm Beach County has demonstrated a willingness to share resources with other government agencies (local, regional and state), and in our opinion makes them a well-qualified applicant for funding.

Please feel free to contact me if you have any questions.

Sincerely,

Deborah S. Manzo
Town Manager

Town of Cloud Lake
"A Bird Sanctuary"
Florida · est. 1948

100 LANG ROAD, WEST PALM BEACH, FL 33406-3222
Phone: (561) 686-2815 • Fax: (561) 683-5120
e-mail: townofcloudlake@msn.com

August 14, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

RE: LiDAR Mapping Initiative

Dear Ms. Benkly:

This letter is in support of Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement Solicitation Number G15PS00558.

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The County has a well-established geospatial data program and is in the best position to effectively manage the distribution of the large datasets that will result from this program. Palm Beach County has a sophisticated geospatial data collection and management program that will allow it to facilitate data sharing and partnership coordination, thereby assisting us to provide improved services to our citizens. Palm Beach County has demonstrated a willingness to share resources with other government agencies (local, regional and state), and in our opinion makes them a well-qualified applicant for funding.

Please feel free to contact me if you have any questions.

Sincerely,

W. Patrick Slatery
Mayor

**The City of Boynton Beach**

OFFICE OF THE CITY MANAGER
100 E. Boynton Beach Boulevard
P.O. Box 310
Boynton Beach, Florida 33425-0310
City Manager's Office: (561) 742-6010
FAX: (561) 742-6011
www.boynton-beach.org

August 31, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

RE: LiDAR Mapping Initiative

Dear Ms. Benkly:

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- Infrastructure elevation and inventories for bridges, buildings, etc.
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We certify that our jurisdiction is located within or overlapping Palm Beach County's jurisdictional boundary.

The County has a well-established geospatial data program and is in the best position to effectively manage the distribution of the large datasets that will result from this program.

Palm Beach County has a sophisticated geospatial data collection and management program that will allow it to facilitate data sharing and partnership coordination, thereby assisting us to provide improved services to our citizens.

Palm Beach County has demonstrated a willingness to share resources with other government agencies (local, regional and state), and in our opinion makes them a well-qualified applicant for funding.

Please feel free to contact me if you have any questions.

Sincerely,

Lori LaVerriere
City Manager

# Town of Lake Clarke Shores

*Palm Beach County's Premier Lakeside Community Since 1957*



August 31, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

Subject:LiDAR Mapping Initiative

Dear Ms. Benkly:

This letter is in support of Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement Solicitation Number G15PS00558.

Obtaining this data will provide a number of benefits, including:

- More accurate data for Flood Insurance Rate Maps
- Storm-water planning
- Hydrological studies
- Environmental assessments
- Infrastructure elevation and inventories for bridges, buildings, etc.
- Accurate data for estimating construction projects
- Updating evacuation zones

We certify that our jurisdiction is located within or overlapping Palm Beach County's jurisdictional boundary.

The County has a well-established geospatial data program and is in the best position to effectively manage the distribution of the large datasets that will result from this program. Palm Beach County has a sophisticated geospatial data collection and management program that will allow it to facilitate data sharing and partnership coordination, thereby assisting us to provide improved services to our citizens. Palm Beach County has demonstrated a willingness to share resources with other government agencies (local, regional and state), and in our opinion makes them a well-qualified applicant for funding.

Please feel free to contact me if you have any questions.

Sincerely,

Town of Lake Clarke Shores

Daniel P. Clark, P.E.
Town Administrator

1701 Barbados Rd.• Lake Clarke Shores, FL 33406 • Phone: 561.964.1515 • FAX: 561-964-0685 • Non-Emergency Police 561.964.1114
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Town of Glen Ridge
1501 Glen Road • Glen Ridge, FL 33406
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E-mail: glenridgetownof@bellsouth.net

September 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

RE: LiDAR Mapping Initiative

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Please feel free to contact me if you have any questions.

Sincerely,

Alan McDaniel

Mayor

8 September, 2015

Juan Tobar, GISP
IT/GIS Manager
Lake Worth Drainage District
13081 Military Trail
Delray Beach, FL 33484

RE: LiDAR Mapping Initiative

Dear Ms. Benkly:

This letter is in support of Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement Solicitation Number G15PS00558.

As you are aware the Lake Worth Drainage District manages the water resources for much of southeastern Palm Beach County, providing comprehensive flood control, water conservation and water supply protection to an estimated 700,000 residents, several thousand acres of agricultural land, and maintenance of approximately 500 miles of canals and associated rights-of-way, as well as numerous control structures. Obtaining this data will provide a number of benefits, including:

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- Environmental assessments
- Infrastructure elevation and inventories for bridges, buildings, etc.
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IT/GIS manager