



## Port of Palm Beach District Professional Surveying and Mapping Services

### Contract Team

- Dana Gillette, PE, PSM, LEED AP – Client Service Manager
- Bryan Merritt, PSM – Project Manager
- Michael Ross, PSM – Project Manager
- William Sadler, PE, PSM – President, Sea Diversified, SBE

# Why Us?

**Port Experience**

**Cost Efficiency**

**Client Service**



**THE PORT AUTHORITY  
OF NEW YORK & NEW JERSEY**



# THE PORT AUTHORITY OF NEW YORK & NEW JERSEY

## Overview

- On demand contract
- Elizabeth Marine Terminal, Port Newark, Brooklyn/Red Hook Marine Terminal
- Newark-Liberty International Airport, Stewart International Airport
- Repeat assignments at each facility



# THE PORT AUTHORITY OF NEW YORK & NEW JERSEY

## Security Process

- Background checks





## Daily Reporting

- What we were doing and where
- Cross checks against our invoices

**THE PORT AUTHORITY OF NY & NJ**

**DAILY NARRATIVE - CAD/SURVEYING ACTIVITIES**

Engineering Department  
 Construction Management Division  
 Civil Survey Group

John J. Spire, Jr., Superintendent  
 One PAT Plaza  
 Jersey City, NJ 07310

TEL: (201) 516-6000  
 FAX: (201) 516-7331

CONSULTANT Erdman Anthony

FACILITY BP

SURVEY NO. 08-343

DATE: 12/29/08 DAY: Monday  
 SHIFT HOURS FROM: 7:00 am - 4:00 pm

ACTIVITY	X	SECTOR MAP(S)	GENERAL LOCATION/DESCRIPTION OF WORK	HRS
HORIZONTAL CONTROL				
VERTICAL CONTROL				
TOPOGRAPHY / PHOTO CONTROL	X		Photo Targeting - recover existing / set new control points and targets	16
AEROTRIANGULATION				
STEREO COMPILATION				
ORTHO PHOTOGRAPHY				
CADD				
OFFICE WORK				
FIELD EDITS				
OTHER				
*CONTRACT NO.		410-07-038		

STAFF	DUTIES	HOURS WORKED
<u>Gary Bogner</u>	<u>Crew Chief</u>	<u>8</u>
<u>Brian Smith</u>	<u>Surveyor</u>	<u>8</u>

CHARGE CODE G02 029 . 038

OFFICIAL USE ONLY

SUBMITTED BY: Mark S. Coon, I.S.

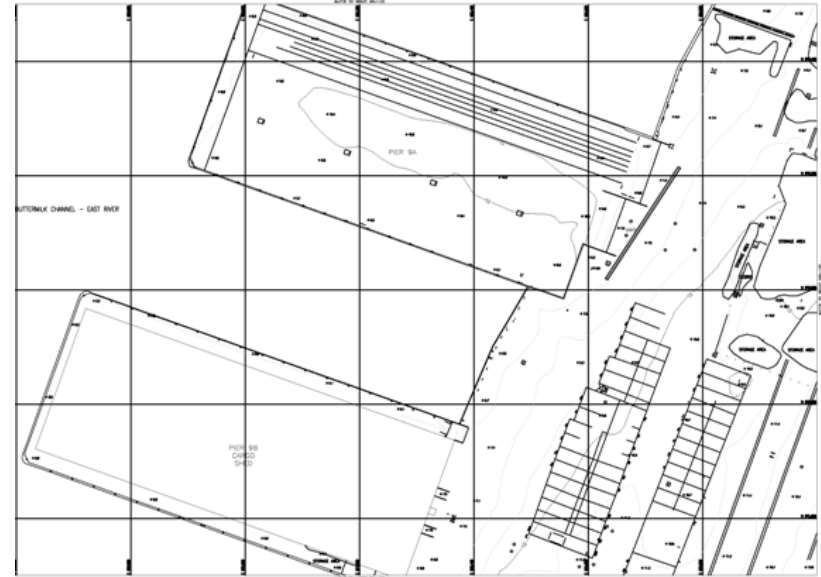
# Brooklyn Marine Terminal/Red Hook Container Terminal

- Upland Topo and As-builts
- High Altitude Aerial
- Updated every 2 years
- 350 acres



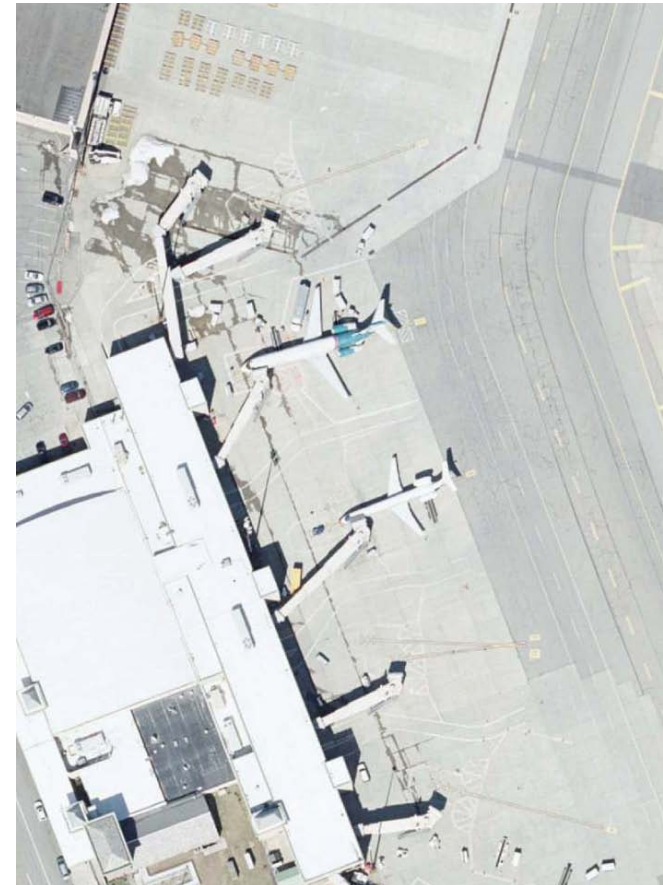
# Brooklyn Marine Terminal/Red Hook Container Terminal

- Digital Terrain Model(DTM)
- Orthophotography
- Mapped all features
- Stringent CADD Standards



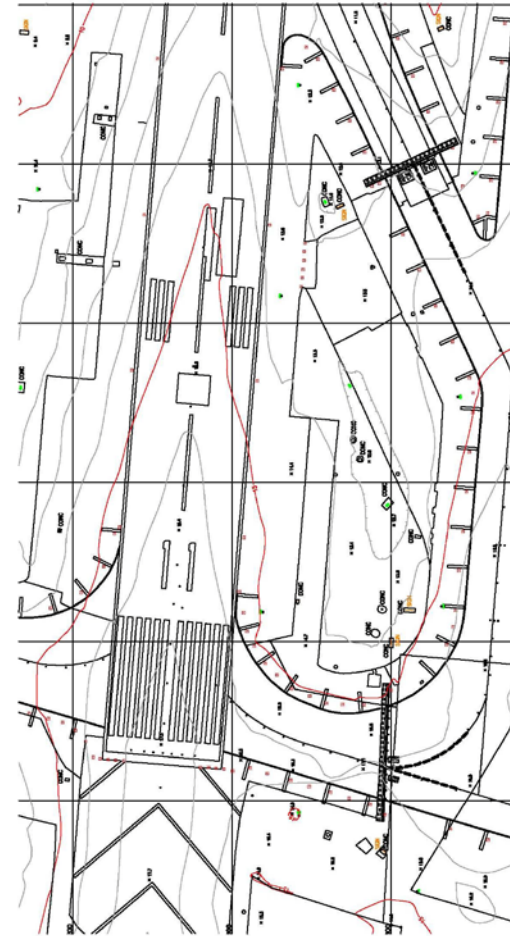
## Stewart International Airport

- Upland Topo and As-builts
- Right of way survey
- Recently acquired facility
- 4,000 acres
- Undergoing rapid economic development
- DTM
- Orthophotography
- Mapped all features
- Stringent CADD Standards



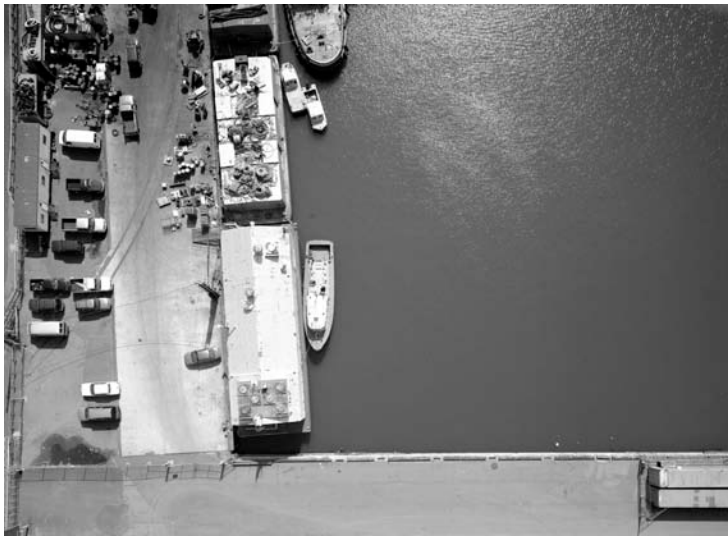
## Newark-Liberty International Airport

- Upland Topo and As-builts
- Additional Background Checks
- 2,600 acres
- Worked closely with subconsultant
- Difficult coordination with FAA
- DTM
- Orthophotography
- Mapped all features



# Port Newark/Elizabeth Marine Terminal

- Upland topo & As-built
- Low Altitude Aerial
- 120 acres
- 80,000' Rail
- New Survey Control



# Port Newark/Elizabeth Marine Terminal

- Digital Terrain Model(DTM)
- Orthophotography
- Mapped all features
- Stringent CADD Standards



# Local Experience

- Public sector and Authority clients since 1995
- Port of Palm Beach – 13<sup>th</sup> Street
  - Upland Topo/As-built/Boundary
- Village of Royal Palm
  - Boundary/Legal Descriptions/As-builts/Upland Topo/Bathymetric
- SFWMD
  - Boundary/Legal Descriptions/As-builts/Topo/Bathymetric





# Technology

## Laser Scanning

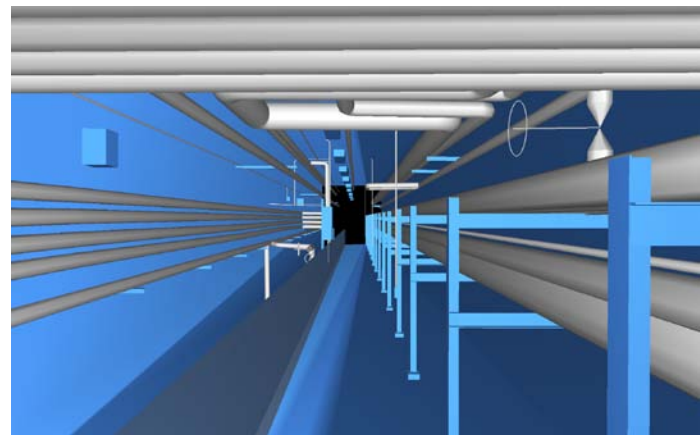
- Remote, non-intrusive
- Picture-like quality
- Irregular Surfaces



Point Cloud

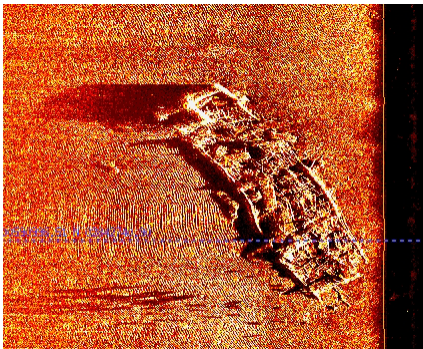


3-D Model



## Hydrographic

- Side Scan Sonar
- Magnetometer
- Sub-bottom Profile



**"Quick response and turn around time."**

*- Kevin Vann, Camp Dresser & McKee, Inc.*

## Why Us?

### Port Experience

**"All of the work received from your office has been of first rate and exceptional quality."**

*- Brian Evans, President, Evans Engineering, Inc.*

### Cost Efficiency

**"The project went very smoothly. The field team mobilized when they said they would and the deliverables were completed on time and within the allotted budget."**

*- Daria Navon, Malcolm Pirnie, Inc.*

### Client Service

**"...you and your crew were prompt, courteous and professional, who did this survey...in a timely manner. Excellent job!"**

*- US Army Corps of Engineers, New York District*

**"Erdman Anthony's staff provided creative solutions in a timely manner... while accounting for site-specific physical constraints, budget limitations, and tight schedules."**

*- Abbie Gregg, AGI*