

Presentation  
**Virgin Islands Waste Management Authority**  
on the  
**St. Croix Transfer Station Project**

By

**Bob Brickner**

**Gershman, Brickner & Bratton, Inc.**

August 17, 2010

**SWANA WASTECON Boston, MA**



SOLID WASTE  
MANAGEMENT  
CONSULTANTS

# Location of the USVI



SOLID WASTE  
MANAGEMENT  
CONSULTANTS

# Current Status of USVI Solid Waste Management Program

- 6 Federal Administrative Orders on Consent for Landfill Compliance
- 3-5 years capacity at Bovoni Landfill on St. Thomas
- Limited capacity at the Anguilla Landfill on St. Croix (located adjacent to end of the Airport)
- No on-island alternative landfill disposal sites
- Imminent federal court-ordered Consent Decrees with stipulated fines and penalties
- USVI Port Authority (VIPA) eligibility for discretionary grant for St. Croix airport capital improvements threatened



# Procurement Milestones

August 19, 2009 RFP issued by VIWMA

September 9, 2009 Pre-proposal conference and site visit

November 12, 2009 Two proposals received

December 22, 2009 Preferred contractor  
selected for contract negotiations

January 2010 Negotiations commenced

# Facilities and Primary Services Being Procured

- Design, Construction, and Operation of St. Croix Transfer Station (SCTS)
- Operate Authority-owned equipment
  - Baler and bale wrapping system
  - Portable Shredder (separate procurement)
- Bale and wrap waste
- Shred oversize Bulky Waste as needed
  - (on-site, off-site, storm debris)
- Transportation of baled waste to Authority-designated location
  - Based on Scenario selected by Authority
- Transport Unacceptable Waste and Recyclable Materials to Authority-designated locations on St. Croix

# Authority Responsibilities

- Lease SCTS Site from VI Port Authority
- Provide Topographic Survey of Site (Completed)
- Perform Phase 1 Environmental/ Archeological Survey on Site (Completed)
- Submit CZM Permit Application (Completed required time for CZM decision)
- Provide Preliminary Concept Design of Transfer Station (in RFP) (Completed)
- Procure Mobile Shredder for use by Contractor

# Authority Responsibilities (Continued)

- Cooperate with and provided limited assistance to the Contractor in obtaining permits, licenses and approvals necessary to design, construct, and operate the SCTS
- Finance and own the SCTS
- Pay the SCTS construction price on a milestone basis
- Operate/maintain scale and provide scale data to the Contractor for billing
- Divert Acceptable Waste from Anguilla Landfill to the SCTS during the acceptance testing of the Baler
- Monitor design, construction, operation and maintenance of the SCTS, including acceptance testing



# Authority Responsibilities (Continued)

- Pay the Contractor per the agreed-upon Service Fees
- Pay utility purveyors directly for cost of utilities (electricity, water, sewer) used at the SCTS
- Operate and maintain the public drop-off Bin Site located along the access driveway prior to the SCTS scalehouse
- Conduct the community information and education program for recycling and proper Solid Waste management on St. Croix
- Collection and transportation of Solid Waste on St. Croix to the SCTS (directly and/or via contract)



SOLID WASTE  
MANAGEMENT  
CONSULTANTS



# Capital Price

Estimate at Approximately \$7.5 Million

**Note:** Baler System is approximately \$1.5 million of above total

## O&M Fee (Excludes Capital Debt) Baled Waste to Anguilla Landfill

Ranges from \$35 - \$40/ton with  
handling 70,000 – 100,000 TPH

w/ ranges of \$50 - \$65/ton if barge  
shipment needed to Bovoni Landfill

# Proposed SCTS Site



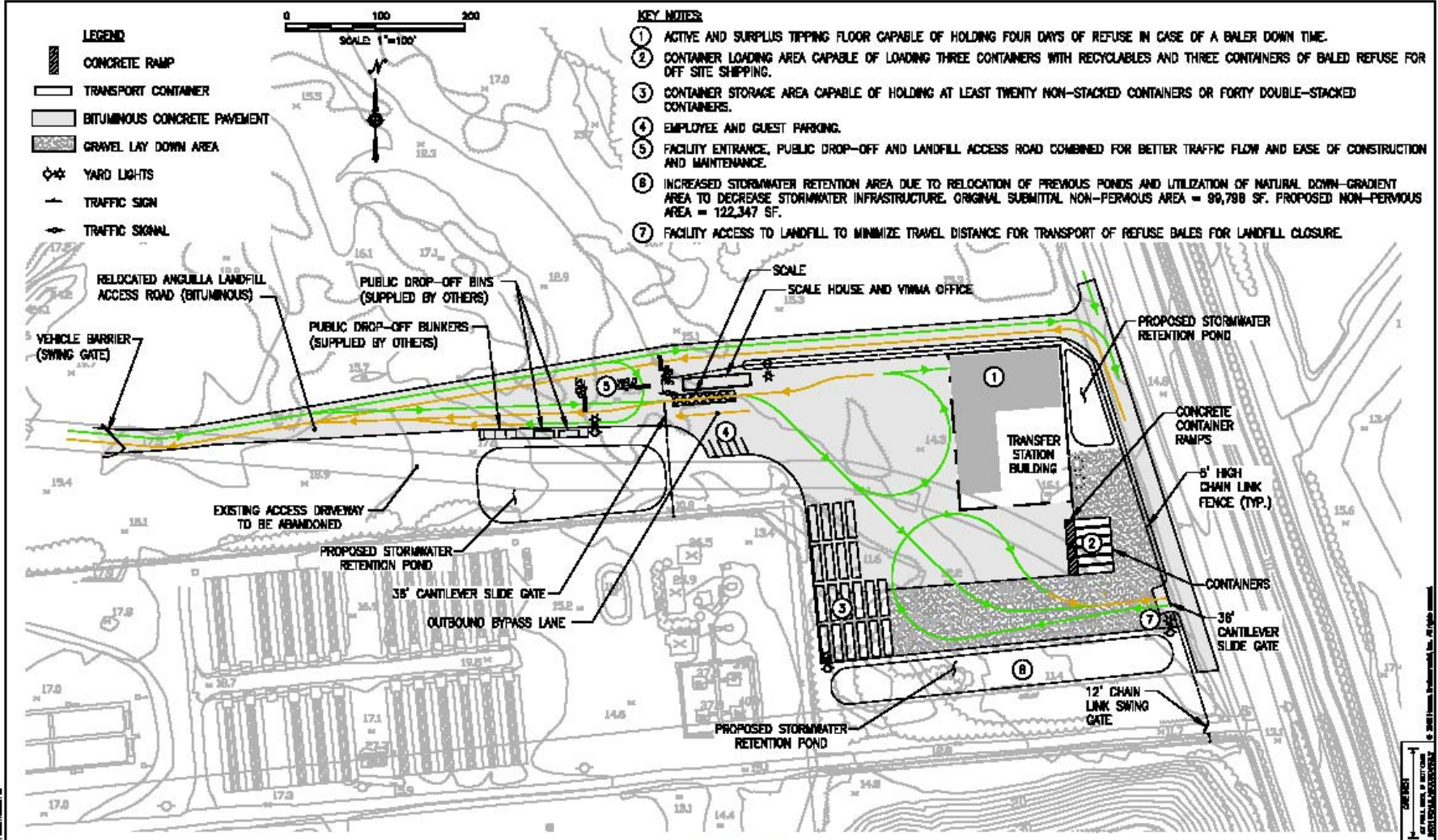
*Hawkins*  
DELAFIELD & WOOD LLP

**MAGUIRE**  
**GROUP**

**GBB**  
SOLID WASTE  
MANAGEMENT  
CONSULTANTS

(Map of area surrounding Anguilla Landfill)

# SCTS Conceptual Site Plan

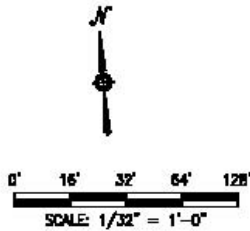
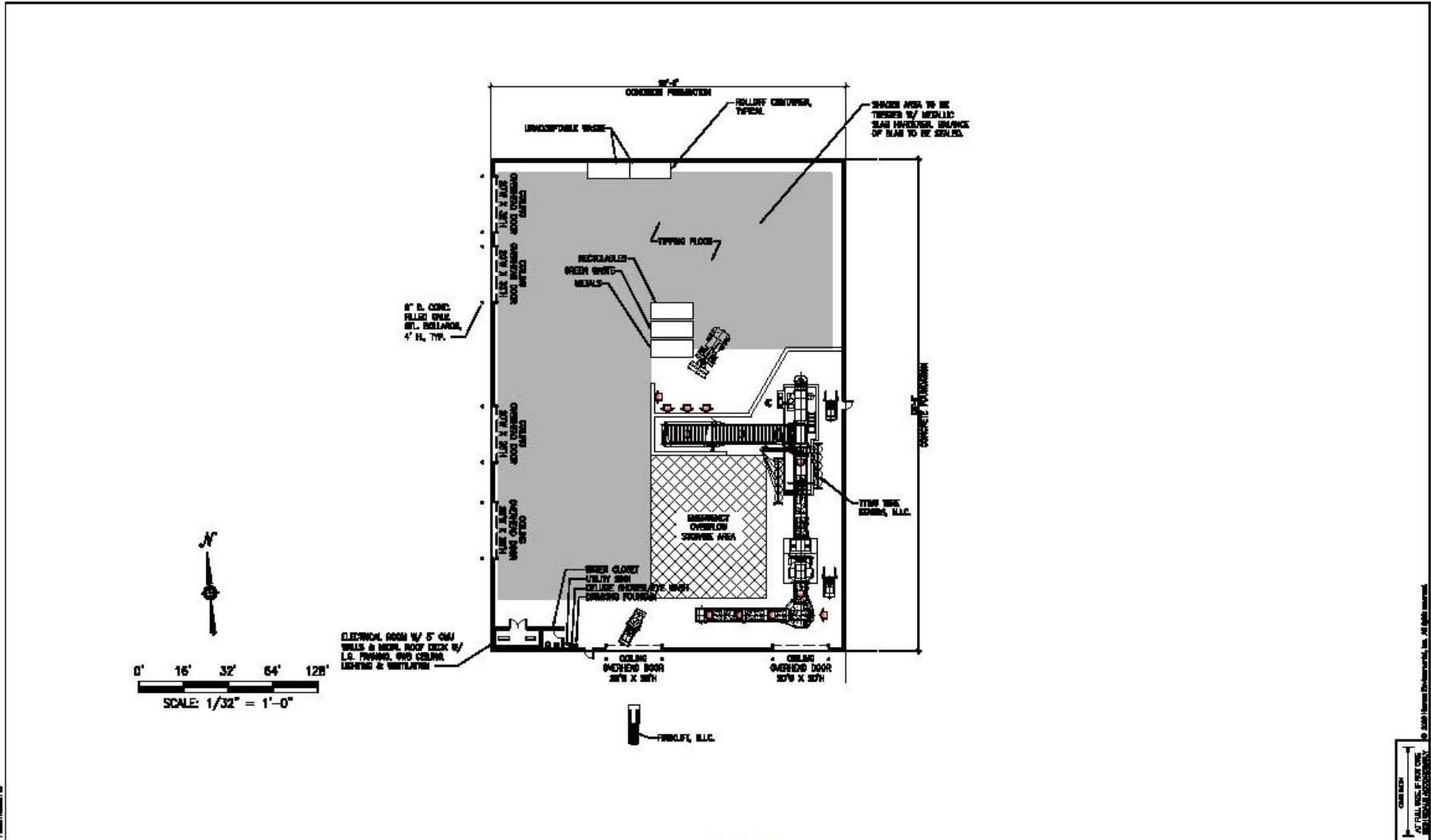


Date: 08/14/2013  
 Project: SCTS  
 Drawing: SPTS-001-001-001  
 Title: SPTS-001-001-001  
 Author: J. L. ...  
 Checker: ...  
 Date: 08/14/2013

© 2013 Herrera Environmental Solutions, Inc. All Rights Reserved.

 <p><b>HERRERA</b> ENVIRONMENTAL SOLUTIONS</p>	<p>2200 North Avenue Suite 1100 Seattle, Washington 98121-9520 206-441-1000 206-441-9104 FAX http://www.herreraenv.com</p>	 <p><b>VIWMA</b> Virgin Islands Waste Management Authority Pursuing Progress</p>	 <p><b>SANITAS PARTNERS</b> Appropriate Disposal Solutions</p>	<p>DATE: 08/14/2013</p> <p>BY: J. L. ...</p> <p>CHECKED: ...</p> <p>SCALE: AS SHOWN</p>	<p>DATE: 08/14/2013</p> <p>BY: J. L. ...</p> <p>CHECKED: ...</p> <p>SCALE: AS SHOWN</p>
				<p><b>TRANSFER STATION ST. CROIX, USVI</b></p> <p><b>ROADWAY RELOCATION AND CONCEPTUAL SITE PLAN</b></p>	

# SCTS Conceptual Building Plan



VIWMA, through its authorized representatives, has prepared this plan for the use of the client. It is not to be used for any other purpose without the written consent of VIWMA.

© 2010 Herrera Environmental, Inc. All rights reserved.

NO.	REVISION	BY	APP'D	DATE



**HERRERA**  
ENVIRONMENTAL  
CONSULTANTS

2304 66th Avenue  
Suite 1100  
Seattle, Washington  
98131-1620  
206-444-8000  
206-444-8106 FAX  
HerreraEnvironmental.com



**VIWMA**  
Virgin Islands Waste Management Authority  
Planning Partner



**SANITAS PARTNERS**  
Appropriate Disposal Solutions

DESIGNER	T. WRIGHT	REVISION	L. TURNIDGE
CLIENT	VIWMA	DATE	JANUARY 2010
SCALE	AS SHOWN	PROJECT	TRANSFER STATION
DATE	JANUARY 2010	DESIGNER	T. WRIGHT

**TRANSFER STATION**  
ST. CROIX, USVI

**CONCEPTUAL BUILDING PLAN**

NO.	JANUARY 2010
PROJECT NO.	18724
FIGURE	<b>FIGURE 2</b>
DATE	

# Why the Mobile Shredder

- Many Needs and Benefits
  - Immediate: The SCTS will receive “Bulky Waste” that needs size reduced prior to Baling
  - Near-term: St. Croix has, and will have, waste generation disaster events that will benefit from a Mobile Shredder for grinding and materials handling
  - Future: Alpine Energy project will have “Opportunity Fuels” needs where particle size control is important



# Shredder Procurement Process

- VIWMA RFP issued: Nov. 12, 2009
- Proposals Received: Nov. 30, 2009
- Contractor Selected for Negotiations: Jan. 20, 2010
- Contractor Selected : Diamond Z Manufacturing
- Capacity: nominal 60-150 TPH based on type of material processed and sizing
- Capital Cost w/Spare parts: <\$700,000



SOLID WASTE  
MANAGEMENT  
CONSULTANTS



# TERM OF SCTS OPERATIONS

- Three (3) year initial contract term from the Acceptance Date
- Authority has option to renew Service Contract for up to three additional one-year terms



SOLID WASTE  
MANAGEMENT  
CONSULTANTS



# DEVELOPMENT PERIOD

- Development Period Responsibilities of the Company
  - Site Conditions
  - CZM Permit
  - Performance Bond
  - Required Construction Period Insurance
  - Coordination with Shredder Supplier

## DEVELOPMENT PERIOD (CONT.)

- Development Period Responsibilities of the Authority
  - Funding
  - Easements
  - Shredder Purchase Contract
  - Site Lease
- Authority Convenience Termination Option Prior to Construction Commencement Date



# DESIGN AND PERMITTING OF THE DESIGN-BUILD IMPROVEMENTS

- Design Work – Company must Comply with Contract Standards
- Design Risk is Completely Borne by the Company
- Changes to Design Requirements – Subject to Authority Approval
- Permitting – Company Assumes Risk for Obtaining and Maintaining Governmental Approvals



SOLID WASTE  
MANAGEMENT  
CONSULTANTS

# WASTE TRANSPORT

- The Company will be responsible for loading all wrapped and Baled Waste onto transfer vehicles and transporting such Baled Waste to the Anguilla Landfill (or Bovoni Landfill, if applicable)
- The Authority will be responsible for the transportation and disposition of Unacceptable Waste and Segregated Recyclable Materials

# OPERATION AND MANAGEMENT

- Operation of the Transfer Station shall encompass the receipt of Solid Waste, segregation of Recyclable Materials and Unacceptable Waste, the shredding of Bulky Waste by the shredder, the baling and wrapping of Acceptable Waste, loading wrapped, Baled Waste onto Company vehicles and transporting such Baled Waste to the Delivery Location



# OPERATION AND MANAGEMENT (CONT.)

- Company will staff the Transfer Station with qualified personnel and appoint a full time Transfer Station Manager
- Company shall use good faith efforts to staff at least 80% of employees with residents of the Territory
- Company will supply Authority with Operation and Maintenance Manual and Plan



# APPENDICES

1. Description of the Transfer Station Site and Site Related Documents
2. Design and Construction Requirements
3. Acceptance Test Procedures and Standards
4. Governmental Approvals
5. Insurance
6. Design, Construction, Testing and Operations Review Protocol
7. Design-Build Price, Design-Build Price Index, Milestone Payment Schedule and Maximum Drawdown Schedule
8. Environmental Guarantee
9. Maintenance, Repair and Replacement Plan
10. Waste Screening Protocol



# APPENDICES (Cont.)

11. Minimum Financial Criteria
12. Operation Fee Adjustment Factor
13. Staffing Plan and Subcontractors
14. Service Contract Adjustments Related to Bovoni Landfill as Delivery Location
15. Monthly and Annual Operating Reports
16. Transport Fee
17. Sample Calculation of Baled Waste Performance Liquidated Damages
18. Convenience Termination Payments
19. Mobile Shredder Fees
20. Project Schedule



SOLID WASTE  
MANAGEMENT  
CONSULTANTS





# End of Formal Presentation

## Questions & Answers

# Thank You

