Broward County’s Medical Examiner’s office and BSO’s Crime Lab Combined Facility. Solicitation Bid #C2115721P1
Agenda

- SMA Overview & Team Introduction
- Why The SMA Team
- Our Experience & Lessons Learned
- Our Approach & Understanding
- Quality & Cost Control
- State of the Art Technology
- Project Specifics
Team Introduction

Charles Michelson
Scott Willis
Natalia Castro
Sheff Devier
Ken Mohr
Lou Hartman

Stephen Williams
Nitin Ranadive
Melsie Ordonez
Jeremy Zweeres

SALTZ MICHELSON
ARCHITECTS

PRIME (CBE): Architectural Planning & Design

Ross & Baruzzini
Engineer of record
I.T., Security & Technology Consultants

LEED Commissioning
Geotechnical Cost Estimating Civil & Landscape Structural Engineers

crime lab design

Medical Examiner & Crime Lab Facilities Specialist

NIV 5 WCCflater Chemical TRC

THE SPRINGHALL GROUP

SALTZ MICHELSON
ARCHITECTS
Team Introduction

Team is anchored by a successful broward county firm & rounded by internationally recognized & experienced Medical Examiner/crime lab facilities experts that know our community.
Celebrating 42 years in practice

Local CBE firm with long-term Broward County Experience

Staff of 26
7 Registered Architects
4 LEED Accredited Professionals
We teamed exclusively with the best experts in the industry to ensure this state of the art facility is successfully delivered to Broward County.
Contributors to Industry Standards

Worked on Over 100 Forensic Science Facilities

Our Facilities Comply with National Forensic Accreditation standards

Performed BSO's Crime Lab Expansion Needs Assessment
Worked on Multiple projects with Broward County

Local Office in South Florida for 14 years

Specialize in laboratory & Research MEP Design

Specialize in Security & Technology for mission critical, high Security & 24/7 facilities
CLD and R&B Project Relationship

Heavier Involvement Early on in the Project

Active Collaboration through all phases

Engineer of Record due to local expertise

Ross & Baruzzini, Inc.
Engineer of Record

CLD
Medical Examiner and Crime Lab Experts

Level of Involvement

Project Development

Planning, Design, Construction, Documents, Bidding, CA, Cx
Our Experience

Answer to Q4 & Q5
B.A.R.C.
Fort Lauderdale, FL
49,000 GSF

Our Experience

Broward County Project In the City of Fort Lauderdale

Lessons learned:
- Entitlement process with the city of Fort Lauderdale
- Contractors pricing methodology
- BDA system
Emergency operations center
City of Weston, FL 25,000 GSF

ROLE: ARCHITECT Prime

Essential & Secure Facility

MEP

all redundant systems
Communications tower
City records storage

Our Experience

Lessons learned:

- Commissioning to Find Systems Problems
- Technology – New systems recognizing existing systems
FL DEPT OF HEALTH STATE
Miami, FL
CRIME LAB
Essential & Secure Facility

ROLE: ARCHITECT Prime

MEP
Mechanical, Electrical
Infrastructure Upgrade

Our Experience
Our ROLE: Laboratory & MEP

Harris county Institute of forensic sciences
Planning/Design
Houston, TX 10,000 GSF

NAME (national association of medical examiners)
ISO / IEC17025 Accreditation criteria
ASID / Lab
LEED Silver

✓ Flexible / adaptable with 3 floors of shell space
✓ Chief ME had the final say

Lessons learned:
• Large Square Floor Drains
• Deeper User Participation
• Shorter Vacuum lines
• Mobile Furniture systems
Lessons learned:

• Convertible Space
• More Flexibility
• Operational Success of Agencies
• Mobile Furniture systems
Our ROLE: Laboratory & MEP

GBI Coastal Regional Crime Laboratory
Planning/Design
Savannah, GA

62,000 GSF

NAM E

ISO / IEC17025 Accreditation criteria
Sustainability Design: Georgia Peach
Toxicology
Secure & Visitor Parking

Lessons learned:
• One Building, Two Tenants
• Validation of the original program
• Conversion to large open spaces
• Space for quite reflection
Forensic Biology / DNA Lab
Largest Public DNA Crime Lab in North America
335,000 GSF

- Project development during Sep 2001
- Planning for 300+ robotic instrumentation
- Enhanced security features
- Emergency operations center

Lessons learned:
- A serious event changed the building design
- More movable furniture
- Management team vs. current leadership
Our Experience

Office of the Chief Medical Examiner, New York, NY

Forensic Biology / DNA Lab
Largest Public DNA Crime Lab in North America
335,000 GSF

Role: Security Consulting
Role: Lab Planning/Design

Multi-purpose use new construction building
Core labs, admin offices, dna records & evidence storage

Lessons learned:

- Limiting public access & exposure to secure back of house through development of physical & electronic security
- Limit cross-pollination of multiple user groups in a single facility
Our ROLE: Laboratory & MEP

WU/BJC Institute of Health
Planning/Design
St Louis, MO
680,000 GSF

- Ability to shift capacity around facility
- Flexible IT infrastructure to respond to changes in technology
- N+1 Redundancy of critical equipment
- Backup Power Systems
- Leed Gold Certification

Lessons learned:
- Flexibility – Allowing space for technological advances
Our Approach & Experience

Facility Programming
Engineered Systems
Facility Security
Technology & Innovation

Programming your Unique facility

- Saber is About Metrics
- Drivers include:
  - Medical Legal & Forensic Functions
  - Caseload Expectations
  - Staffing (Existing - Right Sized – Future)
  - Enhanced space metrics influenced by your culture
  - Example - Decedent Storage (gurney vs. rack)
- Metrics can significantly affect the budget
Our Approach & Experience

LEAN Planning

- Efficient decedent, case & sample movement
Our Approach & Experience

- Facility Programming
  - LEAN Planning
    - Efficient decedent, case & sample movement
  - Multi – Agency Facility
    - Philadelphia Public Safety Services Campus
    - Medical Examiner’s Office / Crime Lab / Public Health Lab
Equipment & inventory Planning Solutions (EQ-IPS)

- Utilize existing equipment inventory w/Survey
- Proprietary tool w/photo and criteria
- Matrix of data & catalog binder – user, design team, purchasing, contractor, move management
Our Approach & Experience

Anticipating Change

- Module planning
- Consistent building blocks
- Integrated engineering (a 20yr history)
Our Approach & Experience

- Module planning
- Consistent building blocks
- Integrated engineering (a 20yr history)
Safety & Efficiency

- Secondary & Tertiary Circulation
- Mix of fixed & Moveable furniture systems
- Wayfinding & Safety Stations
Our Approach & Experience

Engineered Systems

- Contamination & Odor Control
- Critical equipment requirements
- Comfortable environment
- Uninterrupted operation
- Optimize energy performance

- Flexible / adaptable
- Maintainable
- Resiliency
- Reliability
Sustainability: Johnson County Sheriff’s Office

- LEED Platinum
- Energy efficiency
Our Approach & Experience

Facility Programming Engineered Systems Technology & Innovation

Sustainability: Fume Hoods

- Less Energy
- Less Expensive
- Improved Air Quality
- Better Reliability
Our Approach & Experience

Sustainability: Ventilation

- Less Energy
- Less Expensive
- Improved Air Quality
- Better Reliability

Facility Programming Engineered Systems Facility Security Technology & Innovation
Our Approach & Experience

- Facility Programming
- Engineered Systems
- Facility Security
- Technology & Innovation

Air Flow Management
Our Approach & Experience

- Facility Programming
- Engineered Systems
- Facility Security & Innovation

Building Information Modelling (BIM)

- Mechanical
- Electrical
- Lighting
- Plumbing
- Security Systems
1. **TARA**
- Threat and Risk Assessment
- Develop design basis threats, using OCME, BSO, CPTED and other standards.
- Assign vulnerabilities and calculate risks.
- Work closely with the Client and the Design Team.

2. **PROGRAM**
- Develop security program based on OCME and BSO requirements, including Levels of Protection that mitigate threats identified in the TARA phase.
- Work closely with the Client and the Design Team.

3. **DESIGN & ENGINEERING**
- Develop physical and electronic security design that translates the program into hardware, software, and operational criteria, unique to each project.
- Work closely with the Client and the Design Team.

4. **CA**
- Construction Administration
- Observe the installation of security systems and enforce the security design contract document criteria.
- Perform security system testing and commissioning.
- Work closely with the Client and the Design Team.
Facility Security Considerations

1. Site and Building Perimeter Security
   a. Roadways, pathways, perimeter fence/walls, vehicle interdiction, lighting levels and egress routes.
   b. Vehicular control of public, staff and law enforcement vehicles. Potential for segregated parking areas.
   c. Pedestrian access for staff, law enforcement, visiting professionals, visitors and contractors.

2. Loading Dock and Sallyport including screening requirements, validating, expediting and exiting.

3. Main Lobby Entry including screening requirements and operational protocols.
   a. Permissible firearms entry points, including screening, logging and storage requirements.

4. Security Program shall consider, but not limited to, the following:
   a. Survivability to limit any interruptions to lab and facility operations
   b. Internal lab and offices, training facility/floors, file and lab storage areas, and all associated support spaces.
   c. The personal safety of individuals arriving, occupying and exiting the facility.
   d. Removal or theft of OCME/BSO assets, evidence and personal property.
Our Approach & Experience

<table>
<thead>
<tr>
<th>Facility Programming</th>
<th>Engineered Systems</th>
<th>Facility Security</th>
</tr>
</thead>
</table>

**Human Conditions**

- Natural Light
- Illumination
- Task Light
- Countertop Color

- Vista & Views
- Reach
- Moveable
- Containment
Quality & Cost Control

Answer to Q2 & Q3
Facilitators / Communication

Cross-Departmental Meetings
Respect the integrity of each department

- Group Focused Tasks
- Separate from Leadership Meetings
- Creative Thinking
- Build Consensus
- Engage Each Individual

Inspire Each Other to Develop Solutions
Keep the Momentum

You Know...

Highest Performance Scores over past 5 years of any team

4.24/5
Quality & Cost Control

Facilitators / Communication

Performing the BSO Crime Lab Assessment

The Local Knowledge of our ‘out of Town’ Experts will aid in quality & project

Sheff Devier, AIA
Additional Architect
Assigned as Quality Control peer review
Interaction between clients

Elements of Integrated Design Team

Emphasize the integrated process

Think of the Project as a whole

Focus on life cycle decisions

Work together as a team from the beginning

We are a single Entity

Conduct Assessments to help identify requirements & set goals

Ensure requirements and goals are met

Evaluation solutions

Develop tailored solutions that yield multiple benefits

We are a single Entity

Quality & Cost Control

Interaction between clients

SMA will be a constant throughout the entire project.

Establish set face to face visits for out of state experts that are

Pre-scheduled periods of time to reduce

the cost impact of travel

Key stakeholders will have direct access to the out of state experts

Collaboration software:

We will leverage our knowledge of working with the County to ensure all needs are met through the life of this project.

Organization

Elements of Integrated Design Team

SALTZ MICHELSON

ARCHITECTS

Experts out of state

Ross Baruzzini

PRE-ENGINEERING PROFESSIONAL

SALTMICH

AIA

CRIMINAL LAB DESIGN

BROWARD COUNTY

CRIME LAB DESIGN

BROWARD COUNTY

CRIME LAB DESIGN

BROWARD COUNTY
Joe DiMaggio Children's Hospital
South Broward Hospital District, FL
210,000 GSF

- SMA Selected One Year prior to national firm
- Meetings with neighborhood and city to identify & address critical concerns
- Simultaneous participation in programming
- SMA communicated culture standards “Acted as trusted advisor”
Quality & Cost Control

Cost Control

- SABER & eq-pis
- Independent cost estimator
- Integrating with CM @ Risk
  - Subcontractor Scope & Budget Scrutiny
  - Strengthen County CM Contract Language
State-of-the-Art Technology
PROPOSED BIM COORDINATION FOR BROWARD MEDICAL EXAMINER’S OFFICE AND BSO CRIME LAB COMBINED FACILITY

Our Commitment to Technology

- Extensive BIM Experience AND SPECIFIC BROWARD County BIM Standards
- FTP Site for 24/7 ability to access Progress Drawings and Accounting
- Collaborative Project Management Software (podio)
- Disaster Recovery infrastructure in place
- 3d modeling capabilities for visualization
B.A.R.C.
Fort Lauderdale, FL
49,000 GSF
Broward County
BIM & Cobie Standards
Project Specifics

1. Warehouses
2. Middle School
3. Church
4. Site
5. Neighborhood

1. Warehouses
2. Middle School Vocational College
3. Church
4. Site
5. Neighborhood
Project Specifics

Ft. Lauderdale Site Plan Approval Process

- CC – Zoning – Commerce center district
- Site plan level iv
- Will be heard by the city commission “public purpose use”

Key Ft Lauderdale drc concerns

- Neighborhood compatibility

We know the process from drc to final maintenance
Lobby Screening Protocols, Firearms Management

Open Perimeter Fencing, Perimeter Cameras, Car License plate Camera

Secured Employee Parking, Site CPTED Principals & Technology

Hierarchy of security access throughout RFID badge protocols

Receipt, Release, Court

Summary of security measures and technologies implemented.
Lobby Screening Protocols, Firearms Management

Open Perimeter Fencing
Perimeter Cameras
Car License plate Camera

Secured Employee Parking
Site CPTED Principals & Technology

Hierarchy of security access throughout RFID badge protocols
Secure Service Court

Receipt
Release
Receipt
Release

Secure Service Court

Receipt
Release
Receipt
Release
Lobby Screening Protocols, Firearms Management

Open Perimeter Fencing
Perimeter Cameras
Car License plate Camera

Secured Employee Parking
Site CPTED Principals & Technology

Hierarchy of security access throughout
RFID badge protocols

Secure Service Court

Receipt Release Receipt Release
Experience working with Broward County & Understanding of County's Goals & Culture

Excellent reputation & relationship with the county

Strong presence during Construction Accessible at a moments notice

Nationally Recognized Security Experts with Local Broward County Relationship

Recognized Forensic Facility Experts With Local Knowledge

MEP Expert Redundancy to ensure a predictable outcome. Peer Review

BSO Crime Lab Assessment

Why The SMA TEAM?

Local CBE Firm experience complimented by National Talent

Exclusive Team

We Ready to hit the ground running
Our Experience

Our ROLE: Security Planning/Design

Sandy Hook Elementary
Newtown, CT
86,500 GSF

- Safest Physical Security School In the United States
- HIGH PROFILE PUBLIC NEW CONSTRUCTION
- PHYSICAL SECURITY FEATURES THAT WERE CPTED DRIVEN
- BALLISTIC AND FORCED ENTRY RATED DESIGN FEATURES
- SEGREGATED VEHICULAR ACCESS CONTROL ONTO AND WITHIN THE SITE

Lessons learned:

- DISCRETE HIGH SECURITY ELEMENTS THAT DON'T IMPEDE Clients MISSION
- CPTED DRIVEN DESIGN
- MANAGEMENT OF ACCESS ONTO THE SITE WITH MULTIPLE ACCESS GROUPS