RFP S2115731P1
CONSULTANT SERVICES FOR
BROWARD COUNTY’S MEDICAL EXAMINER’S AND
BSO’S OFFICE CRIME LABORATORY
COMBINED FACILITY
THANK YOU FOR THE OPPORTUNITY!
CARTAYA & ASSOCIATES HAS BEEN IN BUSINESS FOR OVER 39 YEARS

OVER 700 PROJECTS | OVER 20 GOVERNMENTAL ENTITIES
Cartaya, Arquitectonica, TLC, and MML have worked on numerous projects together and know each other very well.

Design excellence: leading global architect combined with the leading national forensic and medical examiners planner.

Keeping it local.

Available resources with 700+ staff ready to serve Broward County.

Our team has two team members with extensive medical examiner and crime lab experience.
ARQUITECTONICA

• Founded in 1977

• Local firm with global perspective including law enforcement, high-tech, medical and secure facilities experience

• 650+ employees: architecture, planning, interiors, landscape, product design

• Currently working in Broward County and 3.3 million SF of built work in Broward

• 380+ national and international design awards

• Florida AIA Firm of the Year
McClaren, Wilson & Laurie, Inc.
The Most Experience Nationally
Defining the Leading Edge

• Over 30 years of international experience
• A Portfolio of Work in 44 States
• Offices Nationwide / An International Practice
• Concentrate solely on Public Safety Facilities
• Over 135 Forensic Facilities
• Over 265 Police Facilities
• Founded in 1955 in Florida

• **Local firm with offices in TX, LA, TN and PA**

• Office in **Broward County** for 20+ years

• **350+ Employees**

• Currently working with Broward County and Medical Examiner

• Top 550 ENR Design Firms 2018

• Certified USGBC LEED Proven Provider
Demonstrate the method the prime consultant will organize the team to allow requests from the County to be answered in timely fashion by the team’s crime lab experts that appear to be all subconsultants to the prime especially on critical elements of facility (i.e. labs, evident integrity, chain-of-command, testing, MEP systems, & ventilation)?
• Cartaya as **team leader**, coordinating all team members

• All lines of communication will **always** be open

• MML/subs at **all** design meetings

• Everything documented and distributed

• Ability to call subconsultants **directly**

• **We are a team**, one entity

• **Full involvement from all team members**
Consultant teams are made of specialized, out-of-town consultants, so;

a) What cost control methods do you utilize with the team, and with the Managing General Contractor?

b) How do you maintain quality control throughout the life of the project?
Minimizing conflict and errors

Vigilance over scope creep

Sheet by sheet review of plans with contractors during bidding & construction phases

Prompt responses to RFI’s

Prompt review of shop drawings

Resolution of issues as they arise, not at the end of the project

Tight specifications

Contractor bids on the entire set of construction documents
• Maintain Cost Database for every project completed
• Track Cost of Forensic Laboratory Specialty equipment Closely
• Able to Estimate Early in Project likely Cost at Any Location within United States
How will your consultant team design a combined Medical Examiner’s office with BSO Crime Laboratories that meets Broward County requirements, legal regulations, comply with national forensic certifications and testing agencies?
MML Knows **Emerging Trends** in Forensic Science

- Expandable Forensic Lab Buildings

- Increasing Automation: Robotics like TECAN and QI Agility

- Digital Evidence: Computer Forensics, Cell Phone, Video Surveillance, RF Containment

- Increasing Reliance Upon Computerized Data Bases: NIBIN, AFIS, CODIS

- Autopsy Trends: CT Scan, LODOX, BSL3, etc.
Provide specific examples of challenges the team has encountered on similar type projects, and how would you address them on this project?
MEDICAL EXAMINER

1. Limited existing MEP systems

2. End-user’s more stringent requirements than standards ASHRAE 170 and ANSI Z9.5

3. Achieving goals while staying within the realm of existing infrastructure

4. Calibration and fine tuning after completion
FIRING RANGE

1. Fume management with proper ventilation
2. Commissioning systems to identify design challenges
3. Acoustic engineering solutions to manage sound attenuation
Instrumentation Rooms
Please list the past laboratories your team has worked on, and to what extent the consultant’s exact role on your previous forensic & police crime laboratories?
Alaska
- Statewide Forensic Science Laboratory | Anchorage, Alaska - Alaska State Troopers
- Statewide Scientific Crime Detection Laboratory | Anchorage, Alaska - State of Alaska

Arizona
- Forensic Science Laboratory | Phoenix, Arizona - Department of Public Safety
- Forensic Science Laboratory | Phoenix, Arizona - Phoenix Police Department
- Forensic Science Laboratory | Tucson, Arizona - Department of Public Safety

California
- Crime Laboratory | Bakersfield, California - Kern County District Attorney
- Forensic Crime Laboratories | Eureka, Santa Barbara, Santa Rosa, Stockton, California - Department of Justice
- Forensic Science Laboratories | Fresno, Riverside, Ripon, & Redding, California - Department of Justice
- Coroner Facility | Indio, California - Riverside County Sheriff
- Forensic Science Laboratory | Lancaster, California - Los Angeles County Sheriff
- SID Forensic Laboratory | Los Angeles, California
- Coroner Facility | Modesto, California – Stanislaus County
- Forensic Science Laboratory, Coroner Facility, Public Health Laboratory | Oakland, California - Alameda County
- Forensic Science Laboratory | Oakland, California - Oakland Police Department
- Coroner Facility | Roseville, California – Placer County
- Forensic Science Laboratory, Coroner Facility | Sacramento, California - Sacramento County
- Forensic Science Laboratory | San Bernardino, California - San Bernardino County
- Forensic Science Laboratory, Medical Examiner Facility | San Diego, California - San Diego County Sheriff Department
- Office of Chief Medical Examiner Facility | San Francisco, California –San Francisco County
- Forensic Laboratory, Coroner Facility | San Leandro, California - Alameda County Sheriff
- Forensic Science Laboratory | San Jose, California - Santa Clara County
- Forensic Science Laboratory | Ventura, California - Ventura County

Colorado
- Forensic Science Laboratory | Golden, Colorado – Jefferson County
- Medical Examiner Facility, Forensic Center | Littleton, Colorado - Arapahoe County

District of Columbia
- Mid-Atlantic Forensic Science Laboratory | Washington, D.C - U.S. Dept. of Justice DEA
Florida
- Forensic Laboratory, Phases I & II | Fort Lauderdale, Broward County Sheriff’s Office
- Medical Examiner Facility, Forensic Laboratory | Largo, Pinellas County
- Regional Forensic Laboratory | Orlando, Florida Department of Law Enforcement
- District 2 Medical Examiner Facility | Tallahassee, Leon County
- Medical Examiner Facility | Tampa, Hillsborough County

Georgia
- Health Laboratory | Augusta, Charlie Norwood VAMC
- Sickle Cell Laboratory | Augusta, Medical College of Georgia
- Medical Examiner Office | Marietta, Cobb County

Idaho
- Forensic Science Laboratory | Coeur d’Alene - Idaho State Police

Illinois
- Forensic Science Laboratory | Chicago, Illinois State Police
- Coroner Facility | Peoria, Peoria County

Indiana
- Forensic Science Laboratory, Forensic & Health Sciences Center | Indiana State Police
- Forensic Science Laboratory | Indianapolis, Marion County

Iowa
- Chief Medical Examiners Facility | Des Moines, Iowa Department of Health
- Forensic Science Laboratory | Des Moines, Department Of Public Safety

Kansas
- Forensic Science Laboratory | Olathe, Johnson County
- Central Forensic Laboratory | Topeka, Kansas Bureau of Investigations

Louisiana
- Coroner’s Facility | Lake Charles, Louisiana – Calcasieu Parish

Maine
- Office of the Chief Medical Examiner | Augusta, Maine – State of Maine

Maryland
- Radiological, Chemical & Biological Sample Receiving Center, FBI Sample Analysis Lab
- Aberdeen Proving Ground, Maryland - US Army Corps of Engineers
- Forensic Center, Medical Examiners Facility | Baltimore, State of Maryland
- Academic Forensic Science Laboratory | Baltimore, Coppin State University
- Forensic Science Laboratory | Pikesville, Maryland State Police
Michigan
- Forensic Laboratory & Police Headquarters | Grand Rapids, Michigan State Police
- Forensic Science Laboratory | Grand Rapids, Michigan State Police
- Forensic Science Laboratory | Lansing, Michigan State Police
- Forensic Science Laboratory | Marquette, Michigan - Michigan State Police
- Forensic Science Laboratory | Pontiac, Oakland County Sheriff's Department

Minnesota
- Forensic Science Laboratory, Evidence Processing Facility | Andover, Anoka County
- Medical Examiner Regional Office | Minneapolis, Hennepin County
- Bureau of Criminal Apprehension | Minneapolis, Department of Public Safety

Missouri
- Crime Laboratory | Clayton - St. Louis County

Montana
- Forensic Science Laboratory, Medical Examiner Facility | Missoula, State of Montana

Nebraska
- Crime Laboratory | Lincoln, Nebraska State Patrol

Nevada
- Forensic Science Center | Henderson
- Medical Examiner Facility | Reno, Nevada – Washoe County

New Hampshire
- Forensic Laboratory | Concord, New Hampshire State Police

New Jersey
- Forensic Science Laboratory | Secaucus, Hudson County

New Mexico
- Forensic Science Laboratory | Albuquerque Police Department

New York
- Forensic Science Laboratory, Medical Examiner Facility | Albany, NY State Police
- Forensic Science Laboratory | Buffalo, Erie County
- Chief Medical Examiner Facility | New York, Dormitory Authority State of New York
- Forensic Science Laboratory | Rochester, Monroe County
- Forensic Science Laboratory | Syracuse, Onondaga County

North Carolina
- Medical Examiner Facility | Charlotte, Mecklenburg County
- ICAGEN Laboratory | Durham
- Forensic Science Laboratory | Edneyville, Department of Justice
Ohio
- Forensic Science Laboratory | Bowling Green, Ohio - Bowling Green State University
- Forensic Science Center | Columbus, Ohio – Franklin County
- Crime Laboratory | Columbus, Ohio
- Forensic Science Center | Columbus, Ohio – Franklin County
- Coroner Facility, Forensic Science Laboratory | Dayton, Ohio - Montgomery County

Pennsylvania
- Medical Examiner Facility | Allentown, Pennsylvania – Lehigh County
- DNA Laboratory Facility | Greensburg, – Pennsylvania State Police
- Coroner Facility, Forensic Science Laboratory | Pittsburgh, Allegheny County
- Medical Examiner Facility | State College, Pennsylvania - Lancaster County
- Erie County State Police Headquarters, Crime Laboratory | Summit Township
- Coroner Facility | Williamsport, Pennsylvania - Lycoming County

South Carolina
- Forensic Services Building | Charleston, South Carolina
- Forensic Laboratory | Columbia, South Carolina Law Enforcement Division

Tennessee
- Forensic Science Laboratory | Jackson, Tennessee Bureau of Investigation
- Forensic Science Laboratory | Knoxville, Tennessee Bureau of Investigation
- Forensic Science Laboratory | Memphis, Tennessee Bureau of Investigation
- Medical Examiner | Memphis, Tennessee - Shelby County Department of Health
- Forensic Science Laboratory | Nashville, Tennessee Bureau of Investigation

Texas
- Forensic Science Laboratory | Austin, Texas - Austin Police Department
- Forensic Science Laboratory, Medical Examiners Facility | Dallas County - Southwestern Institute of Forensic Sciences
- Forensic Science Laboratory | El Paso, Texas - Department of Public Safety
- Community Laboratory | El Paso, Texas - City of El Paso
- Medical Examiner Facility, Forensic Science Laboratory | Fort Worth, Tarrant County
- Forensic Crime Laboratory | Garland, Texas - Department of Public Safety
- Forensic Crime Laboratory | Houston, Texas - Department of Public Safety
- Forensic Sciences Laboratory | Lubbock, Texas - Department of Public Safety
Dallas County
Southwestern Institute of Forensic Science
Size: 115,000 SF
Cost: $44.5 million

Features
- Full Service Forensic Lab
- Full Service Medical Examiner Facility
- Shared Support Spaces
- Shared Training
- Shared Utility support
- Shared Site Access and Parking
**Pioneers** in Forensic Laboratory and Forensic Pathology Design

- First US Architectural Firm Devoted to Specializing in Forensic Lab Design
- First New Free Standing Crime Lab in the US *(Alaska 30 years ago)*
- First Purpose Built DNA Laboratory
- First to Implement Bio-Containment Design & Bio-Vestibules in Forensic Labs
- First CDC/NIH verified BSL-3 Autopsy Suite *in USA (CL3 in Canada)*
- First LEED Platinum Forensic Laboratory in USA
- First to Develop Forensic Lab Design Standards
OKLAHOMA STATE BUREAU OF INVESTIGATION FORENSIC SCIENCE CENTER AT THE UNIVERSITY OF CENTRAL OKLAHOMA

Size: 85,000 SF
Cost: $30 million

Features
Low flow air velocity
Evidence racks
Adjustable task lighting and indirect lighting
Private evidence intake stations
Teleconferencing
Design for microscopes
Fully expandable
• Broward County Medical Examiner HVAC Evaluation
• Broward County Medical Examiner Renovations
• Broward County Medical Examiner Autopsy Room
• Orange County District 9 Medical Examiner’s Office – LEED Gold
• Orange County Sheriff’s Sector II Office Building
• Charlotte County Sheriff’s Office District 1 HQ
• Charlotte County Sheriff’s Office District 3 HQ
• Deputy Barbara A. Pill Sheriff’s Precinct
• Melbourne Police Department CSI Building Concept
• Orange County Police Department Crime Scene Facility
• Lakeland Police Training Facility
• Broward College Institute for Public Safety
• City of Sunrise Public Safety and Fire Station #72
• City of Boca Raton Police Department Pistol Range HVAC
• Homestead Air Reserve Base Firing Range Commissioning
WHY US?

• EXPERIENCE, REPUTATION & DELIVERY
• TEAM EXPERIENCE
• TEAM APPROACH (OWNER/ARCHITECT/ENGINEERS)

OVER 135 FORENSIC SCIENCE & FORENSIC PATHOLOGY FACILITIES

3,000+ PROJECTS IN SOUTH FLORIDA

700+ STAFF READY TO SERVE BROWARD COUNTY