



# QUANTITY SURVEYING & PROJECT MANAGEMENT SERVICES

March 2016

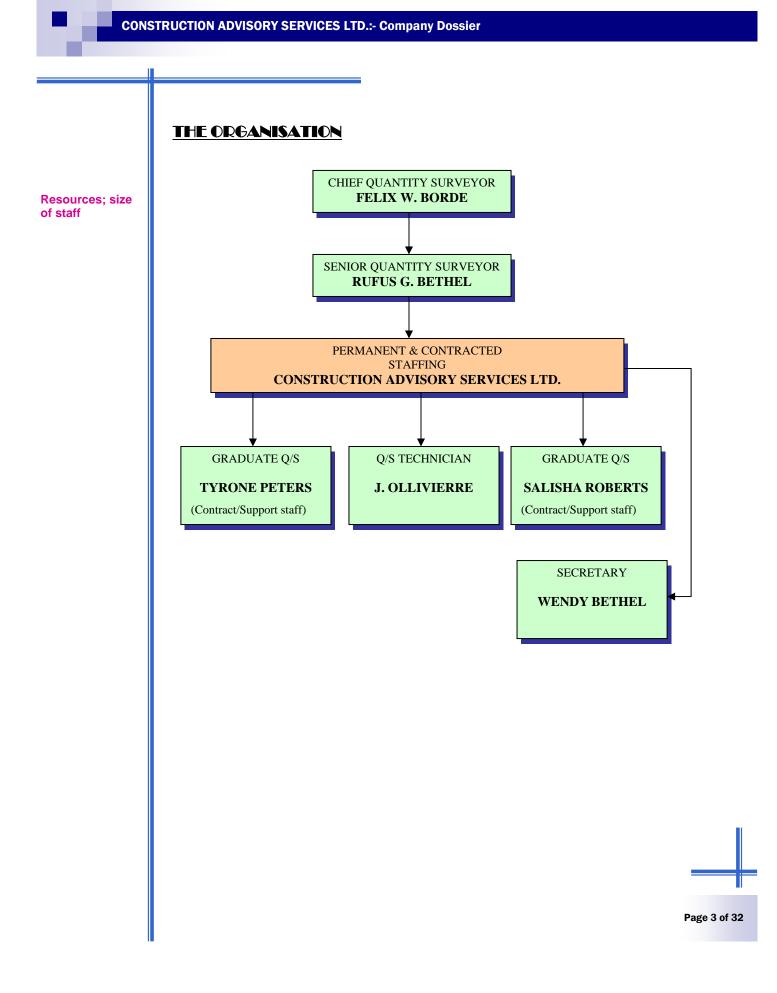
### THE ORGANISATION

#### Resources

**The Company:** Construction Advisory Services Ltd. is a multi-disciplinary practice providing both Quantity Surveying and Project Management services throughout the Caribbean. The Company began its operation with Mr. Felix Borde and Mr. Victor Hart, both of whom collaborated on several projects in the 1970's in Trinidad, and over the intervening years developed a close working relationship. Mr. Rufus G. Bethel joined the company as a full time staff in 2004 after completing a BSc(Hons) degree in Quantity Surveying and Commercial Management, and obtaining over two years work experience in the United Kingdom. He recently became a director of the company in 2009, and has recently successfully completed a postgraduate certificate programme in Construction Law. CAS is based in Grenada but has recently worked extensively within the Caribbean region including; the British Virgin Island, St. Vincent and the Grenadines, Trinidad & Tobago and Montserrat.

**The Practice:** CAS has a staff of six members, including two full time fully qualified Quantity Surveyors, a full time secretary, One full time Assistance Quantity Surveyor and Two contracted fully qualified Quantity Surveyors who's expertise can be call upon at anytime to augment to our work-force. These staffers are actively involved in all aspects of the Practice when required. The Practice has been involved in all aspects of both Public and Private sector construction, including Health, Education, Financial, Commercial, and Residential projects. The company is fully computerized and networked and has state of the art I.T. equipment's, including 5 (five) desktop computers including the main server, 1 (one) laptop, 3 (three) printers, and 1 (one) copy machine. In 2007 CAS acquired a modern computerize software from United Kingdom which enhances the Bills of Quantities preparation, with fully measured documents from concept stage, it improves accuracy and speed during the process. This enables the production stage time frame to be reduced.





## <u>KEY PERSONNEL</u>

position to date: profession: professional qualification:

- Felix W. Borde Dip. Quantity Surveying • Chief Quantity Surveyor
  - Quantity Surveyor
  - Dip. Quantity Surveying, 1978,
  - (College of Estate Management, UK).
  - RICS member (inactive)

Felix Borde is a Quantity Surveyor with over 33 years of post graduate experience throughout the region. Felix was a senior Quantity Surveyor at Hart & Leonard and R.K Plummer Contractors in Trinidad. In 1987 –1989 he was a senior partner at Consultant to Urban Designs, Trinidad. 1989-1996 he was the Chief Quantity Surveyor and Contract Manager at Creative Designs and Building Construction Ltd., Grenada.

## Relevant Experience

Projects in Grenada -:

- 1. Restoration of Forts Matthew & Frederick
- 2. Westerhall Secondary School
- 3. Steele Commercial Centre; multi-storey office complex
- 4. New Hospital Projects; multi-storey medical facility
- 5. Texaco Co-op Service Station Upgrading Works
- 6. U.S. Embassy Upgrade
- 7. National Stadium Phase II
- 8. GCNA multi-storey Business Complex
- 9. British American New Headquarters, multi-storey office complex; Grenada
- 10. Grenada National Stadium; Reconstruction and Redevelopment, 2007 world cup
- 11. Republic Bank Grenada; Melville Street new multi-storey Facility

#### Projects in T'dad and other Caribbean Island-:

1. Worked on twelve (12) World Bank Secondary Schools, one (1) Hospital and twelve (12) Health Centres, T'dad

2. University of Trinidad and Tobago Campus (UTT),

3. Worked on \$3M Hotel in Tobago, \$10M Townhouses in St. Augustine, Trinidad, \$15M new bank for NCB in Trinidad, and many dwelling projects.

4. Worked on EC \$55M worth of commercial, industrial and educational and residential projects, T'dad.

5. British American New Headquarters, SVG; multi-storey office complex

6. St. Vincent & The Grenadines national stadium.



Post-graduate experience

Relevant



## **KEY PERSONNEL**



position to date: profession: professional qualification:

- Rufus Bethel BSc(Hons), PGcert Quantity Surveying Quantity Surveyor-Director
  - Quantity Surveyor
- - BSc(Hons) Quantity Surveying & commercial management; 2002 (Uni. Bolton)
  - PGcert– Construction Law; 2009
  - Uni. (UCLAN) • MRICS- Trainee

Rufus Bethel is a fully qualified Quantity Surveyor with close to 10 years of experience within the region and the United Kingdom. Rufus worked as an assistant quantity surveyor in 2001 to 2002 with the Blackburn and Bury Borough Council, England, where he was responsible for the preparation of tender documents for an Urban housing refurbishment scheme worth over £75 million within the Blackburn and Darwin Council. In 2002 to 2003 he worked as a full time Quantity Surveyor at Glovers Project Services, where he was responsible for pre and post-contract Q/S services for several LDS Churches, Accrington sports club. Rufus has overseen all CAS projects since joining the firm in 2004 including the insurance lost adjustment department.

### **Selective Experience**

- Grenada New Parliament Building- Feasibility Stage multi-storey Government building 1. (13,266 sf)
- 2. NIS Office Complex
- 3. Republic Bank Melville Street; multi-storey banking facility
- 4. British American Headquarters St. Vincent and the Grenadines. Multi-storey office complex
- 5. National Stadium St. Vincent and the Grenadines-
- 6. Hubbards motor department; vehicle showroom
- 7. Government of Trinidad & Tobago; University of Trinidad & Tobago, Wallerfield; Infrastructure and civil works.
- 8. Hassan Brothers; multi-storey commercial building
- 9. Homeland investments (Bay Street Clinic)- multi-storey medical facility
- 10. Grenada Olympic Committee Head Office, Grand Anse,
- 11. Montserrat Lookout Primary school expansion; multi-storey educational facility; specifically designed for seismic loading and volcanic conditions

#### **Post-graduate** experience

Relevant

qualification

## SUPPORT PERSONNEL

| Relevant<br>qualification | Salisha RobertsBSc(Hons), Quantity Surveyingposition to date:<br>profession:<br>professional qualification:• Quantity Surveyor-Contract<br>• Quantity SurveyorBSc(Hons) Quantity Surveying &<br>  |
|---------------------------|---|
|                           | Selective Experience  |
|                           | June 2008 PLP Construction Ltd.<br>Quantity Surveyor<br>Norden, Rochdale, OL12 7RB  |
|                           | My responsibilities include the preparation of tenders to send to sub contractors, the  |
| Post-graduate experience  | preparation of site and Health and Safety files for current notifiable projects, the preparation of   |
|                           | hand over documents and assisting in the valuation of current projects.   |
|                           | June 2003 to Sept. 2006<br>Quantity Surveying Technician<br>Old Fort, St. George's, Grenada, W.I.   |
|                           | Responsibilities Include working with the team on numerous commercial and residential projects; including the Grenada National Stadium, local banks, schools, etc. My responsibilities included assisting in the preparation of Bills of Quantities, site visits and the preparation of tender document analysis. |
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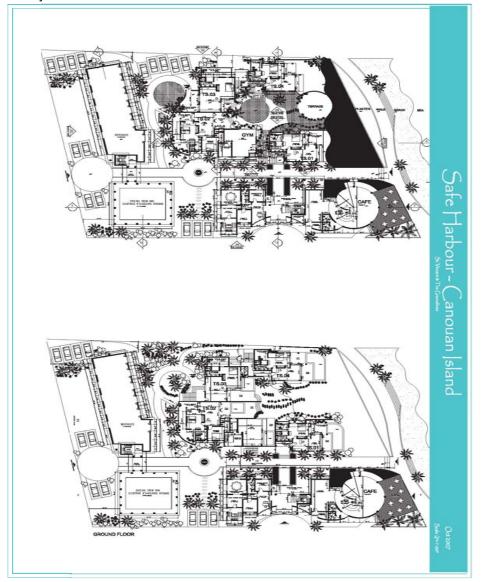
## FIRMS EXPERIENCE

Project:Safe Habour CanouanClient:N/ALocation:Canouan, St. VincentService:Quantity SurveyingContract date:Commissioned Dated: 2008Contract sum:EC\$60m

Multi-Storey projects

#### **Brief description:**

Beach Resort including all civil and site works, restaurant and café, 2 bedroom villas and central facility.



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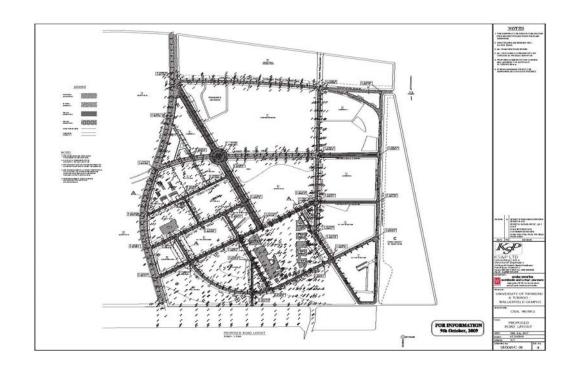
## FIRMS EXPERIENCE

| Project:       | University Of Trinidad and Tobago (UTT) |
|----------------|---|
| Client:        | Government of Trinidad and Tobago       |
| Location:      | Trinidad and Tobago                     |
| Service:       | Quantity Surveying                      |
| Contract date: | Commissioned Dated: 2008                |
| Contract sum:  | TT\$143,941,000.00                      |

Multi-Storey projects

### **Brief description:**

Infrastructure construction, including roadworks, utilities, drainage and general civil works.



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| Project:       | Republic Bank Grenada Ltd., Melville Street |
|----------------|---|
| Client:        | Republic Bank Grenada Ltd                   |
| Location:      | St. Georges, Grenada                        |
| Service:       | Quantity Surveying                          |
| Contract date: | Completed November, 2008                    |
| Contract sum:  | N/A   |

#### **Brief description:**

The design included three floors modern high tech. banking facility, including structural steel and RC frame with external glazing façade. Fully air-conditioned; including FF&E, elevator and stand-by generator. The contract used was JCT 1998 and was tendered out using the traditional form of procurement.





projects

**Multi-Storey** 

Project:British American Insurance HeadquartersClient:BAICLocation:Kingstown, St. Vincent and the GrenadinesService:Quantity Surveying/Project ManagementContract date:(pre and post-contract- 2009)Contract sum:EC\$17, 460,000.00

#### **Brief description:**

The design included a four floors state of the art, modern office complex building, including structural steel and RC frame with external glazing façade. Fully air-conditioned; including FF&E, elevator and stand-by generator. The contract used was JCT 2005 revision 2007 and was tendered out using the traditional form of procurement.





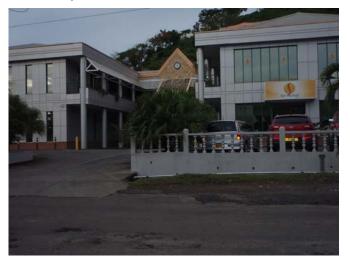
Multi-Storey projects

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Project:Steele Office Complex, Grand AnseClient:SteeleLocation:St. Georges, GrenadaService:Quantity SurveyingContract date:Commissioned 2000, completed 2001Contract sum:N/A

#### **Brief description:**

The design included two floors modern high tech. office complex, including structural steel and RC frame. Fully air-conditioned. The contract used was JCT standard form and was tendered out using the traditional form of procurement. This project was revolutionary to Grenada as it provided an alternative to the traditional masonry façade. The metal cladding façade was the first in Grenada and stands today as a beacon of innovation in Grand Anse.





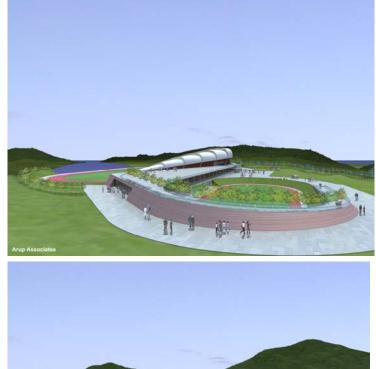
Multi-Storey projects

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Multi-Storey projects

Project:<br/>Client:St. Vincent National Stadium and Commercial Centre<br/>The Government of St. Vincent and the GrenadinesLocation:<br/>Service:Diamond, Kingstown, St. Vincent<br/>Quantity SurveyingContract date:<br/>Contract sum:Pre-contract (2009)Contract sum:<br/>Brief description:EC\$50,000,000.00

The design includes a modern sporting facility, to include athletic tracks, football field and pitch, and two levels of tier to the main stand, with a seating capacity of 8350. This modern facility also boast of a fully functional gym, conference centre, dormitory accommodation, and business and office centre. This will be tendered out using a JCT standard form of contract, and the traditional form of procurement. Upon completion this facility will be at the pinnacle of energy efficiency in the region.





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| Project:           | Miller Investments                        |
|--------------------|---|
| Client:            | Miller investments                        |
| Location:          | Grand Anse, ST. Georges, Grenada          |
| Service:           | Quantity Surveying/Clients representative |
| Contract date:     | Completed, November 2008                  |
| Contract sum:      | N/A                                       |
| Brief description: |   |
|                    |   |

The design included a two floor building with BMW car showroom to the ground floor, and office rental space to the first floor; acoustic ceiling and ceramic tile finishes. The project also includes and separate workshop building. The contract used was a bespoke design and build contract.





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Multi-Storey projects

 Project:
 KFC

 Client:
 KFC

 Location:
 Melville, ST. Georges, Grenada

 Service:
 Quantity Surveying

 Contract date:
 Completed June, 2008

 Contract sum:
 N/A

 Brief description:
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The design included a two floor building with a restaurant to the ground floor, and office rental space to the first floor; acoustic ceiling and ceramic tile finishes. The contract used was a JCT standard form, and was tendered out using the traditional form of procurement.



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Multi-Storey projects

 Project:
 British American Grenada

 Client:
 British American

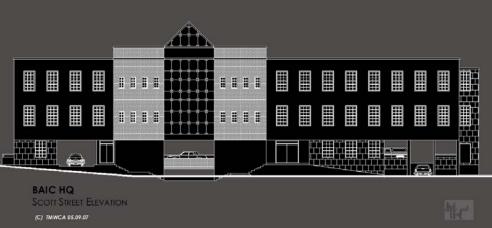
 Location:
 Scotts Street, St. Georges, Grenada

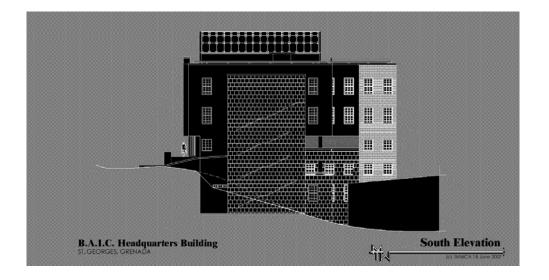
 Service:
 Quantity Surveying & Project Management; Pre-contract

 Contract sum:
 N/A

 Contract Date:
 commissioned 2004

 Brief description:
 The design included a three floor building with basement carpark, and office rental space to the first floor second and third floor; acoustic ceiling and ceramic tile finishes.





Multi-Storey projects

 Project:
 Hubbards Motor Showroom

 Client:
 Hubbards

 Location:
 Mt. Gay, St. Georges, Grenada

 Service:
 Quantity Surveying; Pre and Post contract

 Contract sum:
 N/A

 Contract date:
 Completed 2011

 Brief description:
 The design included a two floor building with workshop annex, and office space and conference room to the first and second floor acoustic ceiling and ceramic tile finishes.

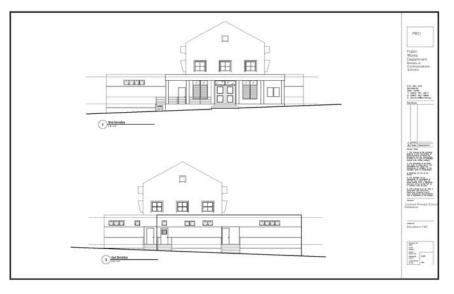


Multi-Storey projects

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Multi-Storey projects Project:Lookout Primary School ExpansionClient:Government of MontserratLocation:Lookout, Montserrat, West IndiesService:Quantity Surveying; Pre and Post contractContract sum:EC\$6,000,000.00Contract Date:Completion date; 2012Brief description:The design included two multi-storey educational facility, including external works.Specifically designed for seismic loading and volcanic conditions.





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Multi-Storey projects

Project:Lookout Primary School ExpansionClient:Government of MontserratLocation:Lookout, Montserrat, West IndiesService:Quantity Surveying; Post contract servicesContract sum:EC\$6,000,000.00Contract Date:Completion date 2012Brief description:The design included two multi-storey educational facility, including external works.Specifically designed for seismic loading and volcanic conditions.





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## FIRMS EXPERIENCE

 Project:
 Hassan Brothers

 Client:
 Hassan Brothers

 Location:
 Melville Street, St. Georges Grenada

 Service:
 Quantity Surveying; Pre and Post Contract

 Contract sum:
 N/A

 Contract Date:
 Completed 2007

 Brief description:
 The design included a multi-storey commercial buildings including finishes and M&E





Multi-Storey projects

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## FIRMS EXPERIENCE

Project:University of Southern CaribbeanClient:University of Southern CaribbeanLocation:TrinidadService:Quantity Surveying/Contractor Rep.; post contractContract Date:Completed 2008Contract sum:N/ABrief description:The design included a multi-storey educational facility including finishes and M&E



Multi-Storey projects

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| Project:           | Melville Street Shopping Mall         |
|--------------------|---------------------------------------|
| Client:            | Today's Wonders (Huge Dollan)         |
| Location:          | Melville Street, St. Georges, Grenada |
| Service:           | Quantity Surveying/ Preliminary stage |
| Contract sum:      | N/A                                   |
| Brief description: |                                       |

including finishes, M&E and external works.

#### **Multi-Storey** projects



The design included a multi-storey shopping centre with office space and retail facilities

MELVILLE STREET, ST.GEORGE'S, GRENADA, W.I.



1.12.14

## FIRMS EXPERIENCE

 Project:
 Villa Mar

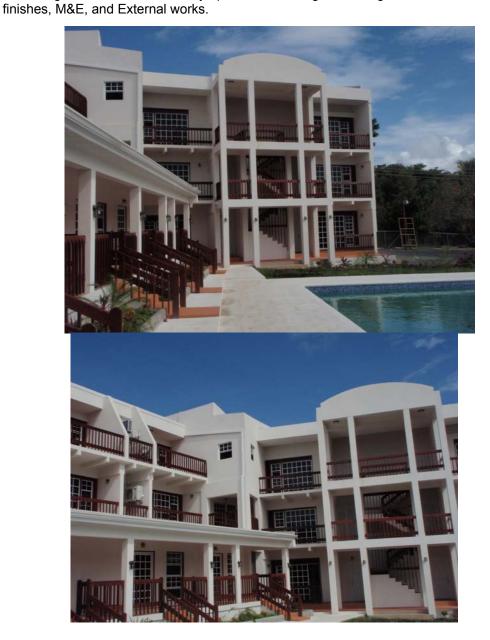
 Client:
 KGL Properties

 Location:
 Lance Aux Epines

 Service:
 Quantity Surveying

 Contract sum:
 N/A

 Brief description:
 The design included a multi-storey apartment building, with living facilities, swimming pool,



Multi-Storey projects

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## FIRMS EXPERIENCE

| Project:      | GUNA Commercial Complex   |
|---------------|---|
| Client:       | Grenada Co-operative Nutmeg Association   |
| Location:     | Lagoon Road, St. Georges  |
| Service:      | Quantity Surveying  |
| Contract su   | <u>m:</u> N/A   |
| Brief descri  | ption:  |
| The design in | ncluded a multi-storey commercial complex; <b>done with approximately 12 work</b> |
| packages.     |   |





Multi-Storey projects

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### FIRMS EXPERIENCE

Project: National Insurance Scheme Office Complex NIS Grenada **Client:** Location: St. Georges Service: Quantity Surveying Contract sum: N/A Brief description: The design included a multi-storey office complex, including, finishes, M&E, and External works.





NIS OFFICE COMPLEX





3,935

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#### **Multi-Storey** projects

### FIRMS EXPERIENCE

 Project:
 La Pointe Development

 Client:
 N/A

 Location:
 St. David's, Grenada

 Service:
 Quantity Surveying– Pre-contract feasibility study

 Contract sum:
 N/A

 Brief description:
 The design included several 1 bedroom and 2 bedroom luxury cottages, central facility, civil and infrastructure works.





General projects

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## FIRMS EXPERIENCE

 Project:
 GHoP Grenada House of Parliament

 Client:
 Government of Grenada

 Location:
 St. Georges

 Service:
 Quantity Surveying

 Contract sum:
 N/A

 Brief description:
 The design included a multi-storey House of Parliament building, including, finishes, M&E, and External



Multi-Storey projects

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### FIRMS EXPERIENCE

 Project:
 RDVRP (World Bank Project)

 Client:
 Government of Grenada

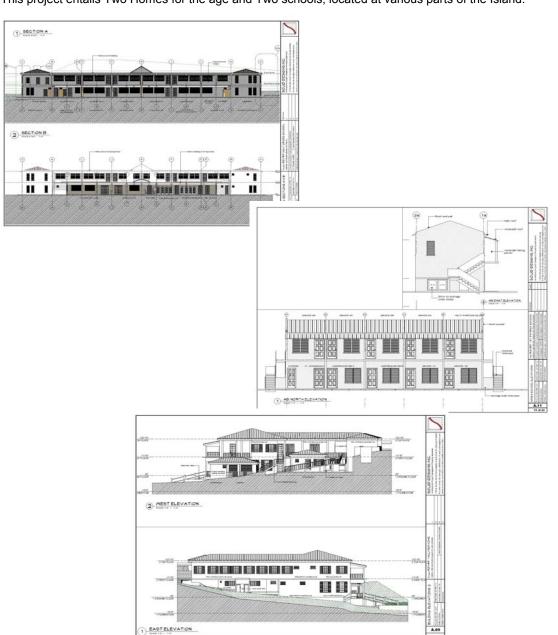
 Location:
 Various

 Service:
 Quantity Surveying

 Contract sum:
 N/A

 Brief description:
 N/A

This project entails Two Homes for the age and Two schools, located at various parts of the Island.



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Multi-Storey projects

## FIRMS EXPERIENCE

 Project:
 Calivigny Point Marina & Resort

 Client:
 N/A

 Location:
 St. Georges Grenada

 Service:
 Quantity Surveying

 Contract sum:
 N/A

 Brief description:
 Luxury Residential resort







Multi-Storey projects

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|                    | FIRMS SELECTED EXPERIENCE   |
|--------------------|---|
|                    | <ul> <li>Grenada New Parliament Building – Feasibility Stage multi-storey Government<br/>Building</li> </ul>  |
| Multi-disciplinary | Coyaba Beach Resort Expansion/renovation; Contractors QS; (4nr contractors)   |
| teams              | Flamboyant Hotel; Expansion/Renovation; Clients QS.   |
|                    | <ul> <li>Government of Trinidad &amp; Tobago; University of Trinidad &amp; Tobago, Wallerfield;<br/>Infrastructure and civil works.</li> </ul>                      |
|                    | Contractors representative on schools renovation project Grenada in the range of  |
|                    | Carriacou Mini Stadium Project- Government of Grenada   |
|                    | Carriacou Fish Market Project- Government of Grenada  |
|                    | Bosley Residence, Carriacou-  |
|                    | <ul> <li>PADCO USAID- Grenada Community Revitalization projects; pre-contract and post<br/>contract services.</li> </ul>  |
|                    | British Virgin Island Housing Development at Virgin Gorda   |
|                    | National Commercial Bank Premises – Improvement Works - completed   |
|                    | Shell Crochu RVI Improvement Works - completed  |
|                    | Texaco Grand Mal Existing Structures Improvement Works - completed  |
|                    | • FNPD New two storey Office Building – practical completion by Jan 2003 – completed  |
|                    | GCNA Jubilee Street – Post Contract;  |
|                    | GCNA New Headquarters, Lagoon Rd. – post contract works in progress;  |
|                    | RDVRP: Home for the Age and schools renovation;   |
|                    | Firms Negotiation experience:   |
|                    | <ul> <li>University of Trinidad and Tobago; Wallerfield building works:</li> </ul>  |
|                    | <ul> <li>University of the West Indies (UWI), Campus Debe San Fernando; Design Build Contract;<br/>Contract sum: N/A Contract completion September; 2013</li> </ul> |
|                    | <ul> <li>Grenada Nation Stadium – World cup 2007; negotiation between the Government of<br/>Grenada and China.</li> </ul>   |
|                    |   |
|                    |   |

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## **Consultant working relationship with;**

#### ARCHITECTS

**Multi-disciplinary** 

teams

- SRM Architects Limited *St. Michael, Barbados*
- OMBI Limited
   St. Johns, Antigua
- Bynoe Rowe Wiltshire Partnership Woodbrook, Trinidad
- Arup Associates
   *Fitzroy Square, London*
- Atlantic Partnership *St. Georges, Grenada*
- TMW Consulting Architects *St. Georges, Grenada*
- Coco Architects
   Grand Anse, St. Georges
- J. Douglas Walker *Trinidad*

### PROJECT

- Melville Shopping mall Melville street, Grenada - NIS Office Complex Melville street, Grenada

> - British American SVG *St. Vincent*

- Republic Bank, *Melville Street, Grenada* - Republic Bank, *Carriacou, Grenada* 

Grenada National Stadium
 (2007 world cup)
 St. Georges, Grenada
 SVG National Stadium
 St. Vincent

- Hubbards motor Showroom *Mt. Gay, St. Georges* 

- FNPD *St. Georges, Grenada* - CK's Renovation *St. Georges, Grenada* - Co-op Bank renovation *St. Georges, Grenada* 

- Several residential projects

- Grenada House of Parliament Upper Lucas Street, St. Georges

- KFC *Melville Street, Grenada* - Medical Diagnostic Clinic *Melville Street, Grenada* 

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#### **Consultant working relationship with;**

# Multi-disciplinary teams

#### **STRUCTURAL & CIVIL ENGINEER**

- Joseph John and Associates St. Georges, Grenada
- Gleans Construction & Engineering Co. *St. Georges, Grenada*
- KGA
   Westerhall, St. David's, Grenada
- BBLF Phillips Engineering Partnership Port of Spain, Trinidad

#### ME&P

- EDC Consultants Limited
   Woodbrook, Trinidad
- Ramps Engineering
   San Fernando, Trinidad
- Maintenance & Construction Services Ltd. (Elevator Specialist) Bridgetown, Barbados

#### PROJECT MANAGERS

• Acuitas Caribbean Limited Port of Spain, Trinidad

#### PROJECT

- Melville Shopping mall Melville Street, Grenada - KFC Melville Street, Grenada - GCNA, Jubilee Street Grenville, Grenada
- British American St. Vincent
  - CK's Expansion
    St. Georges, Grenada
    Hubbards Motor Showroom
    Mt. Gay, St. Georges

- Republic Bank *Melville Street, Grenada* 

#### PROJECT

- Republic Bank Melville Street, Grenada - British American St. Vincent
  - Melville Shopping Mall
    Melville Street, Grenada
    Hubbards Motor Showroom
    Mt. Gay, Grenada
- Republic Bank, *Melville Street, Grenada* - British American *St. Vincent*

#### PROJECT

- University of Trinidad and Tobago Wallerfield, Trinidad

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Energy efficient designs

Construction Advisory Services Ltd. has extensive experience as it relates to energy efficient designs, due to our involvement with the St. Vincent and the Grenadines National Stadium. CAS along with world renowned architectural firm Arup Associates based in England, explored several energy effective designs including renewable energy sources, for example wind generator turbines placed on lighting pylons, photovoltaic electricity generators for all external lightings, and hydro-electric generator, using the Diamond River due to its proximity to the site. A kalzip Natural Roof (planted roof sedums) was also incorporated within the design which not only improves the energy efficiency of the stadium but also, reduces overall carbon emissions, its fully recyclable, minimal maintenance, and reduces rainwater run-off, resulting in a more efficient and sustainable building. The effect of low heat gain by the Kalzip Natural Roof meant that less reliance was placed on the air-conditioning systems for cooling. Apart from efficient running cost, a BMS (building management system) was also incorporated into the design. This system enabled easy networking of all M&E plants and equipments including the VRF (Variable Refrigerant Flow) air-conditioning cooling systems. The BMS system was used as the energy management/metering system. The BMS system provided monthly reports on electricity and water consumption and the overall energy usage stadiumwide, thereby effectively monitoring and controlling the building energy consumption.

The recently concluded Hubbards Motor Showroom, boasts of state of the art energy efficiency with the inclusion of solar generated electricity, including photovoltaic external lighting pylons, including 9.24kW three-phase Solar Electrical System, SMA according to system size, and UV resistance MC solar cables.

Quality Assurance: CAS embraces the concept of quality assurance and quality management, whereby ensuring in a systematic way, activities are organized and implemented in the way it was planned. As a result, a unique approach is adopted to minimize and prevent problems from arising. Personnel are monitored to ensure the use of reasonable skills and care, and have adopted approved principles and guidelines provided by the RICS (Royal Institute of chartered surveyors) which corroborates with international standards. Documents are thoroughly checked by senior staff before issuing to ensure a high standard of quality is maintained. Junior staffs are trained periodically to ensure our client receives the highest standard possible at every level of our organization. CAS is one of the leading Quantity Surveying firms in the Caribbean as it relates to construction all-in rates. CAS has over several years, developed a vast database of construction rates, by combining current building prices and construction out-puts to produce and extensive and detailed library, not only for Grenada but throughout the Caribbean. This unique approach has placed CAS in a position to be able to evaluate, collate and ascertain current construction prices and rates, thereby giving our clients the best advice as it relates to construction pricing, which is especially required during this economic downturn where more clients are seeking value for money.

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