



BAM View is the client magazine of BAM Ireland – Issue 6 – September 2015

BAM opens new M11 Motorway three months early

Good news for road users as important commuter and commercial gateway is opened



BAM Ireland has completed and officially opened the M11 motorway on 13th July, three months ahead of schedule. This is the final construction stage of the N11 Arklow to Rathnew motorway PPP and N7 Newlands Cross Flyover.

The M11 project saw the design and construction of a new Arklow

to Rathnew motorway, a 35km upgrade of the existing M11, and construction of Gorey Service Station. The route, which is a particularly busy commuter artery, was officially opened today by Minister for Transport, Tourism and Sport, Paschal Donohoe TD, together with Minister for Public Expenditure and Reform, Brendan Howlin TD.

The €250 million project, which involved 500 construction workers at its peak, consisted of the construction of 16.5km of new motorway; the upgrade of 35km of the existing M11 road; three interchanges including the Beehive and Jack White's Crossroads; the construction of 15km single carriageway; nine major bridges; and a motorway service area. This project is a public private partnership (PPP) between BAM Ireland and the National Roads Authority, which also includes the operation and maintenance of the 50km road for 27 years.

Speaking at the official opening, Theo Cullinane, BAM Ireland Chief Executive said: "We are proud to open the M11 motorway three months ahead of schedule. This really is a positive development not just for the local community but for all Irish road users, as this important commuter and commercial gateway is now open. The local community and travelling public have been incredibly supportive and patient throughout the construction process, and we at BAM are especially pleased that the improved freeflow motorway



will reduce commute time by 35 minutes and will leave a lasting positive impact on the region.

"Transport projects such as this play a significant role in the long term development of the Irish economy. Transport infrastructure is proven to foster trade and greatly enhance the attractiveness of a region for foreign and direct investment. BAM is proud of our proven track record of investing in and delivering significant PPP projects across Ireland."

BAM Ireland has been announced preferred bidder for the M11

Gorey to Enniscorthy motorway and the N25 New Ross Bypass by the NRA. BAM has a long legacy of significant building and civil engineering projects under the PPP model including the Newlands Cross Junction, M1 Dundalk Western Bypass, the M7 / M8 Portlaoise Bypass and the N25 Waterford Bypass PPP Motorway schemes. Last year BAM completed eight schools under Schools Bundle 3 PPP and recently signed a contract for the design, build, finance and maintenance of four schools under Schools Bundle 4 PPP.

BAM appointed as preferred tenderer for Courts Bundle PPP

In June 15 last the NDFA (National Development Finance Agency), appointed BAM preferred tenderer for the Courts Bundle PPP Project.

This project involves the development of four new courthouses and the refurbishment and extension of three existing court buildings.

The €135 million PPP project will deliver upgraded courthouse facilities in seven different regions around Ireland. The new courthouse buildings will be developed in Drogheda, Letterkenny, Limerick and Wexford and refurbishment and extension works will be carried out to existing courthouses in Cork, Mullingar and Waterford.

Construction is expected to commence in November 2015 with final delivery due by November 2017. The project also involves the maintenance of the buildings for a period of 25 years.

Commenting on the Courts Bundle PPP project, Theo Cullinane, CEO BAM Ireland said "We are delighted to be undertaking another social infrastructure PPP project. To date the Courts Bundle is the ninth addition to BAM's overall PPP portfolio.



BAM picks up accolades at the 2015 Irish Building & Design Awards

BAM picked up two significant accolades at the 2015 Irish Building and Design Awards, which were announced recently at a ceremony in Dublin.

More than 300 people from the world of Construction, Design, Architecture and Engineering attended the largest annual awards ceremony in the industry to acknowledge the best in Ireland's Building and Design projects over the last 12 months. BAM Civil / Wayss & Freytag JV, both subsidiaries of BAM Group, received the Engineering Project of the Year award for work on the Shell Corrib Pipeline in Mayo. The joint venture combined the vast tunnelling experience of Wayss & Freytag with BAM Civil's expertise in the Irish construction sector to deliver the 4.9km Corrib tunnel under Sruwaddacon Bay, now the longest tunnel in Ireland and the longest gas pipeline tunnel in Europe.

BAM picked up the School

Building Project of the Year award for Athlone Community College, a 9,400m² post-primary school accommodating 1,000 pupils. The project included general teaching accommodation, specialist classrooms/workshops, physical education hall, hard play courts, playing pitches and car parking. The school was completed as part of a PPP contract with the National Development Finance Agency, which involved the design, build, finance and 25 year maintenance of eight schools by BAM.

The Awards showcased a mix of cutting-edge building projects and innovative designs and the judging panel consisted of some of the leading professionals in their fields, reviewing the largest number of applications received since the event started five years ago.



Student Visit from Hogeschool University

In April 2015, BAM in collaboration with Trinity College hosted an information day for 18 students and 2 lecturers from the engineering faculty of Hogeschool University, Utrecht.



The day started with a guided tour of the Trinity College campus given by Paul Mangan, Director of

Estates & Facilities at TCD. After the tour a number of speakers made presentations to the students. Paul Mangan presented first on the history and architectural significance of Trinity college. The second talk was given by Architect George Boyle, on the history of Dublin and its architecture. The third speaker was planning consultant Richard Hamilton from McCutcheon Halley Walsh.

After lunch the students visited the BAM MISA (Mercer Institute for Successful Aging) Site at St James's hospital. Tadhg Kelly, BAM Project Manager and Eric Woodlock, BAM Design Manager gave a comprehensive presentation detailing the intricacies of large scale building construction in a restricted live hospital environment. This presentation also included a BIM video, site tour and question and answer session.

Engineers Week 2015 at BAM Ireland

As part of Engineers Week 2015, BAM visited the Guardian Angels National School, Newtown Park Avenue, Blackrock, Co. Dublin to showcase engineering as an exciting and diverse career path while allowing students to talk to engineers and hear about their life experiences.

The visit aimed at informing primary school students about the life of an engineer coupled with an engaging and interactive presentation and hands-on activities.

BAM Engineer Sarah Horgan and Kathy O'Leary BAM Safety Health & Environmental Manager visited 6th class students to talk about their careers as engineers and to show how fun the career can be.

Sarah showed the students some great footage of blowing up piles in Dublin Port and used an app to get the children to build a bridge.

The children had some great questions about engineering and the job of an engineer. The girls in the classes were very interested to see two women engineers and hear about their careers.



Northern Ireland Chamber of Commerce, Meet the Buyer Event, in Armagh

BAM recently ran a Meet the Buyer Event in the Armagh City Hotel.



Northern Ireland Chamber of Commerce and Industry partnered with the Bank of Ireland UK, to deliver the Connecting for Growth event, a cross-border trade initiative for 2014 / 2015, designed to facilitate increased business between companies from Northern Ireland and the Republic of Ireland. The Connecting for Growth Meet the Buyer events involved pre-arranged appointment slots between Buyers and Suppliers.

SME participation in the event is driven by Buyer requirements, and recruitment for the programme is on this basis. Buyers are sourced from a range of sectors, with procurement needs including products and services such as engineering, protective clothing, packaging, facilities management, components etc. which allowed targeting of a cross section of suppliers. Although the main focus of the event for participants was the one to one appointments with Buyers, they (suppliers of goods and services) also had the

opportunity to speed network with other attendees, develop skills and knowledge at the meet the expert sessions and network with Buyers during a roundtable discussion.

There was also additional opportunity to network during registration, coffee and lunch breaks. Experts were on hand to give seminars to sellers on topics such as: Putting together a winning bid, Selling for Success, Using Technology to Grow your Business, Using Social Media to Build your business, Developing a Successful Strategy for Business Growth, Finance for Business growth –perfecting your working capital funding and applying for bank funding. The cross border flagship networking event also encourages participants to network and develop links with each other, developing useful connections and developing their business skills from Meet the Expert sessions.

Al Ain phase 2: On Target and safe!

Value Engineering, smart procurement and growing workforce are keeping the massive project of the Al Ain stadium and mixed-use development well on schedule.

Eleven tower cranes have been erected and construction is continuing day and night to progress at full pace on Phase 2 of BAM's project in Al Ain, Abu Dhabi. BAM completed the iconic multi-purpose stadium and are now developing the surrounding area. Works include; hotel, food court building, multi storey car park, residential buildings, commercial buildings and the associated infrastructure. All works are carried out in compliance with Abu Dhabi's Estidama environmental requirements.

Added value in bathrooms

During the design and

engineering stage, the teams have been able to overcome a number of challenges while delivering further value engineering initiatives. One such initiative was the procurement of 1,100 prefabricated bathroom pods for the residential units which has resulted in programme savings and added value in terms of quality for our Client.

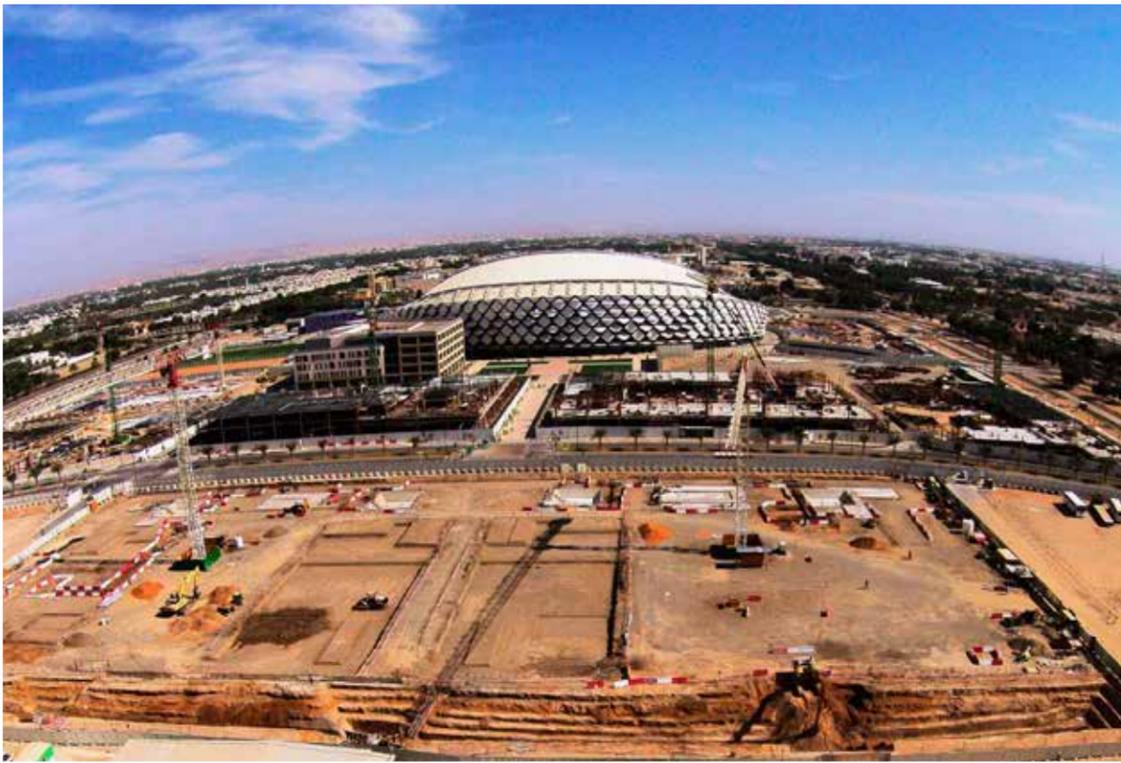
Logistics in a live environment.

All construction activities take place during major football games and National Day event celebrations in the adjacent stadium. This requires weekly or even daily logistics meetings with

our client to ensure that there is minimal disruption. The size of the workforce indicates the complexity of the logistics.

In December the daily operative head count reached 1,500 and this number is expected to peak to around 3,500 in the second quarter of 2015.

Despite these large numbers, BAM and its subcontractors are keeping an excellent safety record. In the first six months of the project the strict safety at work protocols culminated in the first 1,000,000 man hours without a list time incident.



BAM sponsors D7K race in Phoenix Park

All participants had a fabulous day at the recent BAM sponsored D7K race in the beautiful phoenix park in Dublin.

This family fun run took place near the Papal Cross in the Phoenix Park, with two routes, a 7K run and a 3K run/walk. Pensioners, toddlers, and seasoned runners all participated. The purpose of the event was to raise funds for Dublin 7 Educate Together National School, but more importantly to get the community engaged in a fun activity.



New jerseys for Scoil Bhríde

Girls Football Team

Scoil Bhríde National School in Kill, County Kildare have an excellent sports programme in their school but due to lack funding the girls team did not have a set of jerseys that they could call their own and had to share with the boys. BAM was delighted to help out and now the girls have their own jerseys with the official Ladies Gaelic Football Association logo.

These young girls have been very successful in previous years reaching the finals of many competitions within the county and some teams have represented the school in Croke Park and are thrilled with their new jerseys.



UCC Summers Evening on the Quad Celebrates 10th Anniversary

An incredible line-up performed at a movie-themed musical extravaganza on 4th July, the tenth anniversary of the UCC Summers Evening on the Quad.



Celebrity MC for the evening was one of Cork's favourite sons, solicitor Gerald Kean. The magnificent Celtic Tenors, Peter Corry and Alex Sharpe wowed the audience at the 'Music of the Movies' themed concert, with numbers from Les Misérables, The Phantom of the Opera, Guys and Dolls and many more favourites. Linda Kenny performed as a special guest. All of the artists were backed by the talented Cork Youth Orchestra under the baton of conductor Tomás McCarthy.

The event was held in association with An Garda Síochána Bridewell Community Policing and is

generously supported by BAM, Evening Echo, Cork's 96FM and The River Lee Hotel.

Down Syndrome Cork, Brú Columbanus, the Cork-Singida Partnership, FirstLight Ireland and Student Counselling at UCC all benefitted from the mammoth fixture on the Munster social calendar. What started out as a fledgling concert has morphed into a successful annual event for charity, says UCC General Services Officer and event co-founder Pat Cotter, who praised the people of Cork in particular and the sponsors over the years.

"We started the concert as a community charity event between UCC and Community Policing Barrack St (now the Bridewell), hoping to have one every five years. It just took off. It has generated over €400,000 in the last nine years, with 100% of the funding given to the charities. This is down to the fact that we have such great sponsors who have supported the event year after year, acts willing to give up their time and UCC staff and management who supported us. But the key to all charity events is the paying public and the Cork people in particular have been central to our success. We would not have made it to the 10th year without their valued support"



BAM Completes LNG Terminal in Aqaba Jordan

Since 2005 Jordan has relied heavily on gas imported from Egypt via the Jordan Gas Transmission Pipeline (JGTP) for electricity generation.



The supply of gas from Egypt was severely interrupted and the Jordan LNG (Liquefied Natural Gas) Project will now provide a consistent supply of NG (Natural Gas) to Jordan's power stations. The Aqaba LNG project comprises of four separate contracts that were integrated to realise the overall project from supply through to transmission. LNG supply by Shell FSRU (floating storage and re-pressurisation unit) supply and operation by Golar Marine and land based Terminal project works under Engineering, Procurement and Construction (EPC) Contract by BAM - MAG Engineering Transmission of the NG by Jordanian Egyptian FAJR Company via hot-tap into their 36" NG pipeline. The EPC contract commenced on 21st January 2014 and was completed

July 2015. The BAM-MAG JV civil, structural and MEP teams faced a number of challenges throughout the design and build project, however the greatest challenge was incorporating the various stakeholders' requirements into the original design concept. The BAM-MAG JV, managed by Irish Project Manager Howard McDonagh, has completed the design, procurement, construction, testing and commissioning of the project. The new LNG Terminal in Aqaba, Jordan receives gas from a Floating Storage and Re-gasification Unit (FSRU) on a continuous basis. The Terminal facility is operational for 24/7, 365 days per year. The gas is hot tapped into the existing 36" Jordan Gas Transmission Pipeline (JGTP) than runs from Aqaba to the north of Jordan and Syria, feeding power stations en route.

BAM Challenge 2015

This year the "challenge" involved three events in which over 100 BAM colleagues participated.

These events were a 130k cycle, an 80k cycle and a "mini triathlon": 6.5k run/walk; 26k cycle and a

kayaking experience. All proceeds from the events went to local charities.



BAM Sponsors DIT Students to take part in Design Build Competition

In February 2015 BAM supported DIT Bolton Street engineering and architectural students to engage in the Associated Schools of Construction (ASC) Region V Design Build Competition in Texas which involved colleges from around the world.



DIT, through Professor Lloyd Scott PhD, Head of the College of Engineering and Built Environment, developed a collaborative association with Oklahoma University in Norman Oklahoma USA to enter a team into the competition. The Oakland team (Oak from Oklahoma and Linn representing Dubh Linn) comprised engineering and architectural students from both colleges. Three from DIT (Chloe Marie, Coner Cassidy & Williams Gadimoh) and three from Oklahoma (Jonathan Healy, Connor Reid & Taylor Hensley). The teams collaborated by skype throughout the year and then the full team met up in Oklahoma before travelling to Texas to take part in the design and construction competition.

The competition involved preparation of a design and building proposal in 19 hours. At 8 am all the teams received the 78

page, Request for Proposal (RFP) from the competition sponsor – BECK Design Build company. From this brief, each team was to submit a design and build proposal for a CHARTER School to accommodate 1,000 for the town of Plano Dallas Texas.

Once the hard copy proposal was submitted, all teams then had to prepare a PowerPoint presentation. This presentation was also part of the competition and all teams had to present in person in front of the judging panel.

The Oaklin (Oklahoma & DIT) Team, design & build proposal did not win the overall design and build competition but their presentation was awarded first place. By taking part in the competition, all students gained invaluable practical experience, knowledge and exposure to prospective employers. This competition involves collaboration between industry and academia and partnerships between architectural and engineering education centres around the world.



KEY PERSONNEL

Theo Cullinane, CEO

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Denis McCarthy
Paul Roche

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Tadhg Lucey
Paudie Murphy
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Pat Nestor

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BAM FM

Michéal Keohane

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Business Development Director – Mike Jones

CSR Director – Tadhg Lucey

Commercial Director – Jim Martin

Building Manager, Western Region – Luke Gibbons

Chief Estimator, Civil – John Murphy

Chief Estimator, Building – Seamus Brady

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