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BAM View is the client magazine of BAM Contractors Ireland - Issue 3, March 2014



Corrib Tunnel reaches the half way mark



The half way stage of the Corrib tunnel under Sruwaddacon Bay was reached just prior to Christmas 2013.

The tunnel boring machine (TBM) 'Fionnuala', which weighs almost 500 tonnes and is 140m in length has been excavating under Sruwaddacon Bay in North West Mayo since January 2013. The work continues 24 hours per day seven days per week. During this time, Fionnuala has excavated almost 75,000 tonnes of material and has installed 2300 concrete rings, which line the inside of the tunnel.

Paul Hughes, Shell Tunnel Construction Manager, said: "It is great to have passed the half way mark. The construction of the tunnel remains a significant engineering challenge and we look forward to making safe and steady progress over the coming months."

As part of the tunnelling process, the cutter head at the front of 'Fionnuala' breaks the rock and gravel that it meets while tunnelling. This material is then pumped in a suspended mixture back through the tunnel to the surface at Aughooose where it is separated.

Tunnelling is expected to be completed later this year after which the 20-inch (50cm) diameter gas pipeline will be installed together with a number of service and control lines.

Once completed, the Corrib tunnel will be longer than the Dublin Port Tunnel and will be the longest gas pipeline tunnel in Europe.

BAM to sponsor Irish Open at Fota Island

BAM, Ireland's largest public works construction company, has announced that it will become an Official Sponsor to the Irish Open Golf Championship which will take place at Fota Island Resort from June 19th – 22nd.

The presence of The European Tour's top stars at this year's tournament, including World Number Six and double Major Champion Rory McIlroy, is expected to deliver a significant boost to the event and the region.

The Irish Open was last played in Cork in 2002 when Denmark's Søren Hansen took the title at Fota Island and the Resort also hosted the Championship in 2001, when Colin Montgomerie won the last of his three Irish Opens.

This year's tournament is also being supported by Cork County Council, Cork City Council, Fáilte Ireland and the Kang family.

Discussing the sponsorship, **Theo Cullinane, Chief Executive, BAM** said: "BAM is delighted to join with Cork City and County Councils in partnering with the Irish Government and Fáilte Ireland to sponsor this fantastic sporting and tourism initiative. The Irish Open in Fota will showcase the Munster region to a worldwide audience and will be a major boost for businesses in

Cork. We look forward to playing an active role in supporting what promises to be Ireland's sporting highlight of 2014. The region is well geared to cope with the significant numbers who will attend the event, with major infrastructural projects having been completed in recent years, many of which BAM has delivered."

Minister for Transport, Tourism & Sport Leo Varadkar said:

"Golf is one of Ireland's most important tourist activities. Around 160,000 overseas visitors take part in golf during their visit to Ireland every year, contributing €202 million to the economy. The Irish Open is a great advertisement for Irish golf, showcasing our beautiful scenery, world class courses and facilities and warm and friendly people. And this year we can look forward to watching the event at one of Ireland's most beautiful golf courses in Fota."

James Finnigan, Commercial Director of the Irish Open said: "The European Tour is pleased to welcome BAM into the 2014

Irish Open as one of our Official Sponsors. It is exciting news for the Irish Open to have an organisation of this quality and scale supporting our decision to bring Ireland's National Championship to the beautiful Fota Island Resort in County Cork. On behalf of the European Tour, I would like to thank Theo Cullinane and BAM for their commitment to the Irish Open."



Mercer Institute

We have recently been awarded the €35m contract for the Mercer Institute for Successful Ageing at St James's Hospital which involves the demolition of existing buildings and the construction of a new 15,018m² state of the art facility.

This part four storey and part seven storey hospital building will house clinical facilities and clinical support facilities, research facilities and offices of the Mercer's Institute, 116 bed ward accommodation and administrative office and support services accommodation.

The project will incorporate: roof terraces and a single storey pedestrian corridor and ancillary accommodation structure at

ground level linking to the main hospital concourse; first phase of a landscaped plaza together with a set down and drop off area and disabled parking and seating with a pedestrian link to the adjoining Linear Park adjacent to the Fatima LUAS stop. Works also include all other site development works above and below ground required to facilitate the development including internal circulation routes, pedestrian walkways, hard and soft landscaping and lighting.

BAM completes ultra-fast track FIFA-standard stadium in Abu Dhabi



BAM international, the operating company of Royal BAM Group active outside Europe, working in partnership with BAM Contractors, Ireland, has completed the Hazza Bin Zayed Stadium in Al Ain, Abu Dhabi, UAE, after a 16-month ultra-fast track project. construction project.

Built to FIFA standards, the stadium covers an area of 45,000m² with a capacity of 25,000 seats. The project also included a sports hall, commercial buildings and extensive exterior landscaping.

The official opening of Hazza Bin Zayed Stadium and the sports centre took place on 24 January 2014 and was marked

with a three-day family festival full of sports and healthy lifestyle activities. Thousands of fans and families attended the event. One of the most prestigious new sports stadiums in the Middle East, Hazza Bin Zayed Stadium is the new home of Al Ain FC.

Among Hazza Bin Zayed Stadium's many architectural and

technological features are the external façade, which consists of fabric elements that create the impression of the trunk of a palm tree. Lighting of the elements is provided by LED lights in 15 different content modes. The palm bowl shaped roof provides pleasant conditions for both players and fans, even on hot days during the summer months. The design of the roof makes it possible for matches to be played in the shadow after 5pm.

BAM International started the project in mid-2012 and remained on schedule with all aspects of the construction, making use of 10.5 million man hours. The client is AAFAQ Holding and the consulting engineer is EC Harris. BAM International executed the project with contributions from sister companies BAM Sports, specialised in stadium construction, and BAM Contractors from Ireland.

With the Hazza Bin Zayed Stadium, BAM International has delivered an excellent reference project for the 2022 FIFA World Cup in Qatar.

Minister Jimmy Deenihan officially opens Tralee Bypass

Minister Jimmy Deenihan TD, Minister for Arts, Heritage and the Gaeltacht officially opened the new N22 Tralee bypass.

The bypass, which was designed and built by BAM for Kerry County Council, features 8km of dual carriageway to the East of Tralee and a 5.5km single carriageway link road to the N22 Killarney Road. The bypass runs to the east of Tralee town and connects the N21, N22, N69 and N70. It includes five roundabouts, two road bridges, a railway bridge and two river bridges, with two further roundabouts on side roads, one priority junction and approximately 5.3km of side roads and 6.8km of accommodation access tracks.

The bypass also includes 9.5km of dedicated combined pedestrian/cycleway.

It is envisaged that the bypass will result in an average end to end reduction in journey times of 73% and result in savings of approximately 12 minutes at peak times.

Speaking at the opening of the new bypass, Theo Cullinane, BAM Chief Executive said: "BAM is delighted to be delivering another major infrastructural project which will impact significantly on the Munster region. The bypass will greatly relieve traffic congestion in Tralee town, improve travel times and road safety, and enhance the road transport corridor between

Tralee and Killarney. This project is a much needed boost for the Tralee community and will prove to be an asset to the area for many years to come."

BAM has a long track record of large roads projects, having already successfully delivered the M1 Dundalk Western Bypass, the M7 / M8 Portlaoise Bypass, the M25 Waterford Bypass Motorway schemes and the Castleisland Bypass. BAM is currently working on a number of other road projects across Ireland including the new N7 Newlands Cross free-flow junction and a major element of the N11 road network in Wicklow and Wexford.



UCD officially opens Sutherland School of Law

University College Dublin officially opened the first purpose-built university law school in Ireland.

Built by BAM and named after Peter Sutherland SC, the iconic facility, which measures over 5,100 m², is located on the edge of a newly designed and landscaped lakeside setting on the 133 hectare UCD Belfield campus.

The state-of-the-art facility includes lecture theatres, classrooms, administration/office space, the Moot Court area with supporting preparation areas, atrium/circulation and break-out spaces with a ground floor café and servery areas. It brings together all the teaching, research and professional development activity of the Law School into a single building. Teaching spaces in UCD Sutherland School of Law are designed to promote the active engagement of students with the law. These include a

clinical legal education centre where students can develop their advocacy, dispute resolution, client counselling and negotiation skills in simulated courtroom and office settings. The largest theatre also serves as a ceremonial moot court.

The new school offers a national resource, of the highest international standards, to underpin innovation in legal education, research and practice.



Beyond Zero Commitment Workshop

53 of our management team recently attended a 2 day seminar on Beyond Zero Safety Culture & Vision for BAM.

This "Beyond Zero" workshop facilitated by JMJ, involved a brain storming session by senior management and safety managers as to what safety means to each of us and how we as individuals can enhance the existing safety culture.

Beyond Zero requires us all to take individual responsibility and to contribute to the making of change. Each and every one of us is committed to ensuring that

anyone who is impacted by our projects goes home safely every day.

The next step in our Beyond Zero journey is for 10 trainers to be trained. These trainers will become Beyond Zero Champions and will learn how to facilitate workshops. These Beyond Zero Workshops will be attended by each stakeholder group on the BAM Supply Chain from suppliers to clients.



Coláiste Ailigh the first School in the SB3 PPP Opens

On Friday 14th November, Coláiste Ailigh teachers and students closed the doors on their temporary school and walked to their new state-of-the-art school a mile away.



Coláiste Ailigh is the first of the 8 schools to be completed by BAM under the Schools Bundle 3 PPP Scheme. The Schools PPP programme consists of the design, build, finance and 25 year maintenance of 8 schools, 7 post-primary and one primary in various locations around the country.

This new 350 pupil post-primary Letterkenny school will provide permanent accommodation for the

Gael Coláiste established in 2000.

The 6,000m2 fastrack project was completed by the BAM team in 51 weeks and comprises:

General teaching accommodation, specialist classrooms/ workshops, physical education hall and ancillary areas, hard play courts and playing pitches, parking spaces, engineering services and all associated site development works.

BAM Awarded CPD Accreditation

BAM Contractors has been awarded the much sought after CPD (Continuing Professional Development) Accredited Employer standard by Engineers Ireland.

BAM is one of Ireland's longest established indigenous construction companies and has projects underway right across Ireland. We recognise that it is through our employees that we maintain our position as a leading Civil Engineering and Building company. We are committed to excellence and employ dedicated people from a variety of backgrounds. We offer a dynamic environment to learn in, contribute to and an opportunity for mutual success.

Our CEO, Theo Cullinane accepted the award at the recent CPD Employer of the Year Award Ceremony. Theo said, "This would not have been possible without the fantastic effort from all involved, in particular our CPD Committee. For BAM, its employees are its most important asset and we want to continuously commit to and inspire all our team members. The Engineers Ireland CPD Accreditation framework



gives us an excellent structure to help ensure we continue to advance the personal and professional development of employees and it empowers staff to deliver new innovations in existing and emerging markets."

BAM recognises that CPD is essential in keeping staff skilled and in achieving their corporate goals which helps maximise the potential of employees by linking

learning to actions and theory to practice. In terms of Performance Management, CPD helps staff to set clear measurable objectives and link to appraisals helping staff to focus on their achievements throughout the year. We have strategically retained much of our core workforce; most of them working within Ireland and some gaining valuable niche expertise on our projects across the world.

Minister Frances Fitzgerald turns sod on National Children's Detention Facility

'New facility will provide a valuable piece of social infrastructure for many years to come'

Theo Cullinane, BAM Contractors



The Minister for Children & Youth Affairs, Frances Fitzgerald TD, today turned the sod on the National Children's Detention Facility in Lusk, Co. Dublin, which will provide secure accommodation for children detained by the courts.

BAM was awarded the contract for the construction of the €56 million National Children's Detention Facility which will create 350 construction jobs at its peak.

The project will provide new accommodation, educational and recreational facilities and is due to be completed by 2015. The new facility will provide 60 new secure

spaces for children, bringing the total number of secure places on site to 90.

The 13,650m2 facility will include ancillary visiting, administration, staff, catering, medical, maintenance and waste handling facilities. The existing Oberstown Boys and Oberstown Girls units will be demolished, with Trinity House, Cuan Beag, Recreation Building and Step Town House retained.

Speaking about the commencement of the project, Theo Cullinane, Chief Executive, BAM said: "BAM is delighted to commence construction on the

National Children's Detention Facility. This new facility will provide a valuable piece of social infrastructure for many years to come. We are proud to be involved in another significant state project and we have an expert team in place to ensure that we deliver a state-of-the-art facility."

The National Children's Detention Facility will be located on an overall site comprising 24.5 hectares.

Pictured: Ministers Fitzgerald & Hayes with Leo Harmon.



Executive management team visits Ulster Hospital

In January 2014 the Executive Management Team of the Health Estates Investment Group paid a visit to the Generic Ward Block construction site at Ulster Hospital.

The Project includes:

- Inpatient accommodation – 288 Single ensuite bedrooms (12 wards per floor over 4 floors each with 24 single en-suite bedrooms)
- 4 Day Surgery Theatre Suites
- 3 Endoscopy Suites
- Cardiac Catheterisation Suite
- Pharmacy
- Redevelopment of the Critical Care Unit
- Communication links to existing hospital buildings

Graham BAM Healthcare Partnership (GBHP) continue

to liaise closely with the South Eastern Trust to ensure that the ongoing works cause minimal disruption to the day today activities of the hospital, local residents and nearby businesses.

Bulk excavations have been completed with approximately 66,000m3 of spoil being removed from site. This is enough to fill 28 Olympic sized swimming pools. Piling works have also been completed with over 1000 piles being installed, some going as deep as 17m. The ground bearing floor slabs on Levels 1 & 2 are virtually complete which has allowed the concrete frame and upper floor slabs to progress. To date over 5,500m3 of concrete has been poured. This weighs approximately 13,750 tonnes.



BAM starts construction on NUI Galway Clinical & Translational Research Facility



'Our team has the specialist skills to produce world-class medical research facilities'

BAM has started construction on a €20m Clinical Research Facility and Translational Research Facility (CRF-TRF) at NUI Galway.

The four-storey 5,345m² building will facilitate cutting-edge medical research side-by-side with patient care in University Hospital Galway. This sharing of medical expertise and accommodation including HSE in-patient facilities will help inform new strands of clinical research. The construction period is anticipated to be 16 months and the project will create 125 construction jobs at its peak.

The CRF-TRF building is located on

the grounds of University Hospital Galway and is directly adjacent to the University's Clinical Science Institute, UHG's Critical Care Facilities, Ward Accommodation Block and the Maternity Wards.

The Translational Research Facility will be on the second and third floor of the building and will accommodate open and flexible lab spaces. It will have direct links to the Clinical Science Institute where many of the University's medical students are located, at both ground and second floor levels.

The HRB Clinical Research Facility occupies the ground and first floors. This facility will form part of an Irish Network of Clinical Research Facilities which will allow

patients access to state of the art clinical research in stem cells, gene therapy, biomaterials and immunology. It will also have a space specially designed for clinical research in regenerative medicine. The CRF will have direct links to the existing hospital at both ground and first floor levels and will be fully owned and operated by the Health Services Executive and University Hospital Galway.

Discussing the new project, Theo Cullinane, Chief Executive, BAM said: "BAM is delighted to return to the campus of NUI Galway to commence this innovative project. Our team has the specialist skills to produce world-class medical research and care facilities and this project will have a significant impact in the field for many years. We look forward to delivering a cutting edge facility which is as successful as the award winning Engineering Building we constructed on campus in 2010."

Pictured (l to r) Professor Martin O'Donnell Associate Director HRB Clinical Research Facility, Dr Jim Browne, President NUI Galway (seated), Professor of Pharmacology and Therapeutics Larry Egan, Theo Cullinane, CEO, BAM Contractors (seated), and Professor Frank Sullivan Director HRB Clinical Research Facility.

What's happening now on the N11 Arklow/Rathnew PPP

N11 Arklow/Rathnew Section A, PPP Project is the Design and Construction of a 16.5km section of the N11 dual carriageway in County Wicklow.

The route commences at the northern end of the Arklow Bypass and ties in at the southern end of the existing Rathnew/Ashford dual carriageway. The works will involve building two new grade separated junctions (located at Jack Whites crossroads and the Beehive), eight bridges and a variety of link roads to tie into the existing road network. On completion, there will be benefits in travel times and road safety to both local and inter urban (Dublin /Wexford) traffic. The new dual carriageway is

being constructed over a period of 28 months with an expected completion date of August 2015. Initial works on the construction of the new dual carriageway have commenced. In addition to the off site works (ie. design & planning) that are currently underway, works are also progressing on site.

Section B of the N11 Arklow Rathnew PPP Project is the Design and Construction of the upgrade works on the existing N11/M11 in Counties Wicklow and Wexford. The site works are on the N11/M11 between Junctions 20 and 23 and involve installation of new emergency phones, gantry signs, drainage and ductwork in the verges over a distance of approximately 32km.



What's happening now on the N7 Newlands Cross PPP

The past number of months have seen activity pick up on the N7, Belgard Road and Fonthill Road.

The works completed to date have comprised of utility diversions, boundary walls, drainage, sign gantry foundations and temporary road construction on the N7 and Belgard Roads. The temporary road construction is required in order to divert traffic while the construction of the bridge structure and approach embankments is carried out. These

temporary diversions are designed to permanent road standards and will include the construction and commissioning of:

- Road pavements
- Drainage
- Public Lighting
- Cycleways and Footways (east of junction only)
- Traffic Signals
- TS equipment

The main Naas Road traffic has been diverted and the following works commenced in February

- N7 Inbound slip lane construction to and from Fonthill Road
- Footpath and cycleway construction
- Bridge abutment and embankment construction east of Newlands Cross
- Utility diversions on Fonthill and Belgard Roads
- Boundary Wall construction to rear of Newlands Road properties
- New public lighting



KEY PERSONNEL

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Ger Harrington
Perry Haughton
Denis McCarthy
Paul Roche

Regional Directors
Michael Gillen
Ger Moloney

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