SORENSEN

Civil and Marine Engineering

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INTRODUCTION

Sorensen Civil Engineering Limited is an Irish based civil & marine engineering company established in 1977 that has grown and developed over the years to become one of Ireland's leaders in the marine engineering sectors. As a mid-sized progressive engineering company, we offer all our clients a cost-effective, flexible, professional and personal service from an efficient, tightly run organisation.

We have offices in Cork, Limerick and in the UK. It is our aim to steadily develop a new client base and supply chain in the marine sector in the UK in the coming years.

Our services include:

- Traditional Contracting
- Design & Build Contracts
- Design Build & Operate Contracts
- Project Management Services
- PSCS Services
- Design Solutions

The company has a proven track record of successfully delivering civil and marine engineering projects which has resulted from practical experience coupled with technically adept and motivated staff. This approach results in the same high degree of expertise, quality, safety and commitment across all our projects. We pride ourselves on our track record of frequently providing innovative and progressive value engineering solutions to complex engineering challenges across a variety of projects for all our clients.

Areas and sectors in which Sorensen provides services:

- Coastal
- Earthworks
- Flood Relief
- Harbour Developments
- Heavy Civil Engineering
- Highways /Roads
- In-Stream Works
- Jetties & Piers
- Park & Landscaping
- Power & Utilities
- Public Realm
- Slipways
- Water & Wastewater

OUR TEAM

Sorensen prides itself on retaining a solid base of loyal and experienced people consisting of professional staff and site-based operators. Our head office is in Cork and provides continual support to all our projects.

Company Board of Directors

OLAF SORENSEN

Chairman

Olaf Sorensen, founder of Sorensen Civil Engineering Ltd and Chairman of our board, brings over 50 years of experience in the civil and marine engineering industry. Renowned and respected by his peers, Olaf's journey has been defined by hard work, integrity, and a steadfast commitment to building a dedicated team of talented individuals.

JOHN WALLACE

Managing Director

John is a Fellow of Engineers Ireland and a Chartered Engineer with over 25 years' experience in the civil & marine engineering industry. As Managing Director, John has used his experience in the construction industry to grow the company significantly in recent years across both the civil and marine engineering sectors. He has successfully diversified the company's portfolio into a variety of new sectors.

DAVID SORENSEN

Operations Director

David is part of the company for over 40 years and is well regarded in the industry for his solutions-based approach to projects. David manages the day-to-day operations of our plant fleet as well as our labour force and supervisors. He oversees all the projects and specialises in high-risk, complex, heavy civil engineering and marine works.

LOUIS KEATING

Marine Director

Louis is leading Sorensen's marine portfolio and our design management team across all projects. He has over 40 years' experience in the civil and marine industry. Louis is widely renowned and respected throughout the marine industry for his innovative ideas and ability to develop projects from concept to final fruition in collaboration with both clients and consulting engineers across Ireland and the UK.

We ensure that all of our employees receive continual professional development and current industry-based training in safety, engineering, quality, environment, commercial and general industry best practices.

Executive Directors

BRIAN SNOW

Operations Director

Brian has over 20 years' experience in the construction industry in Ireland and across Europe. He specialises in the management of multi-disciplinary teams on large infrastructure projects such as highways, windfarms, harbours, flood relief and public realm contracts. His record of accomplishment in the safe and timely delivery of major civil & marine engineering projects is exemplary.

PARAIC McCARTHY

Operations Director

Paraic is a highly experienced Operations Director, with over 30 years in Civil Engineering, specialising in highways, airport runways, and large infrastructure projects. He has a proven track record of delivering complex projects to the highest standards of safety, quality, and environmental sensitivity, always ensuring a timely and within-budget completion.

LUKE TREACY

Operations Director

Luke specialises in project delivery and winning new business for Sorensen. He has managed the delivery of a wide variety of projects including port developments, water & wastewater treatment plants, reservoirs, main drainage and road projects. With over 20 years' experience in delivering civil & marine engineering projects for our clients, he forms a valuable part of our executive committee.

MICHAEL O'LEARY

Commercial Director

Michael has over 20 years' commercial and contract management experience working on major civil & marine engineering projects. He is highly experienced in implementing cost and value management on projects along with all the contractual requirements across a range of procurement routes. Michael has managed the commercial & contractual elements of various projects across Ireland and the UK.

PROJECTS

Sorensen has developed a large and varied portfolio of civil and marine engineering projects over the past 47 years. We take particular pride in our track record of delivering high risk heavy civils and marine projects for our clients by providing innovative value engineering solutions. The projects illustrated in this section of our company brochure provide an insight into some of our recent achievements in delivering challenging projects for a variety of clients.


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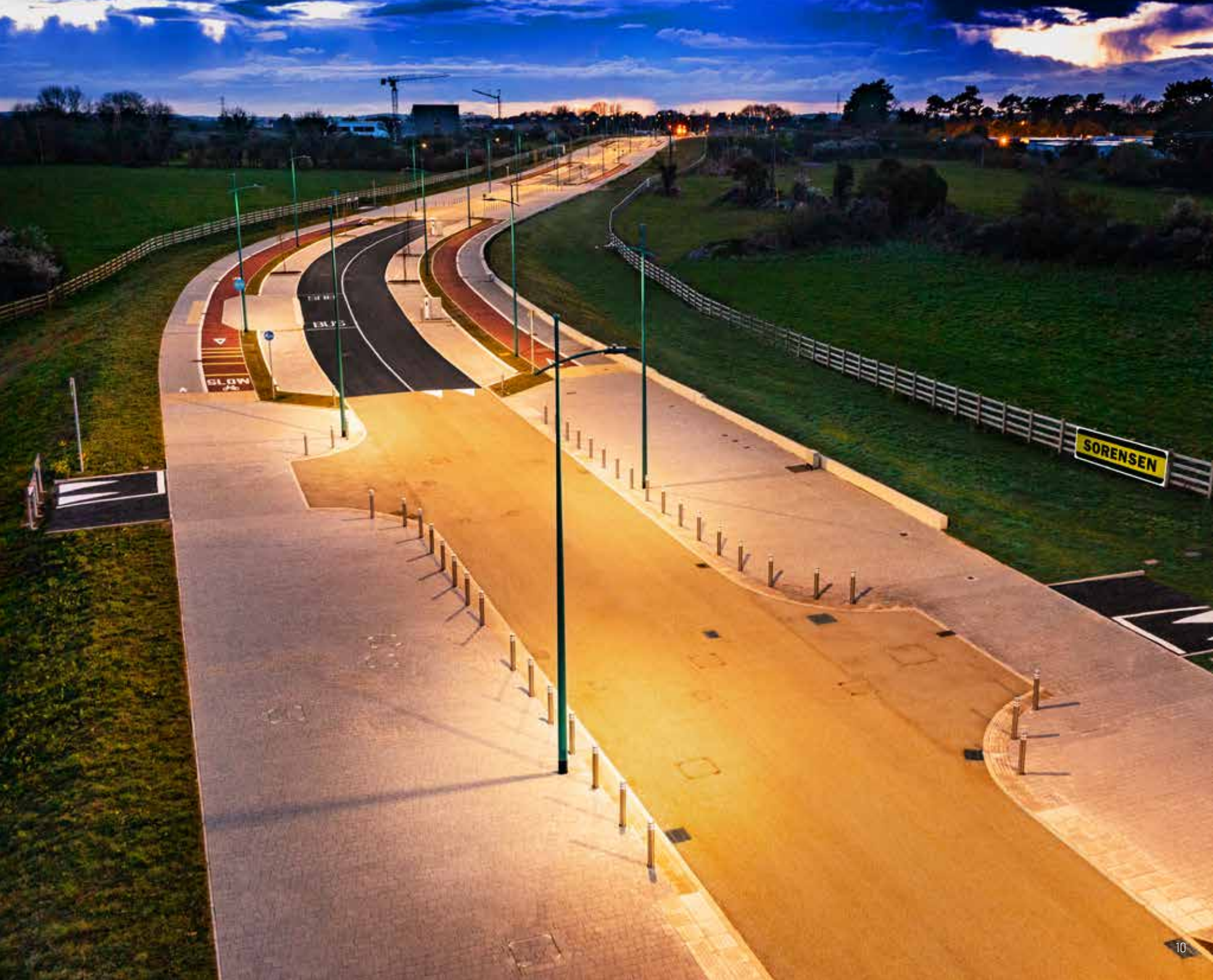
Mungret LIHAF Delivery: Stage 2 Road Scheme

This project was required to facilitate the future growth and development of the Mungret area on the outskirts of Limerick City. The works entailed the construction of two new link roads and the upgrade of an existing roundabout along with associated infrastructure works including fencing, drainage, utilities, road markings and signage, and lighting.

Given the density of housing planned for the adjacent lands, the design incorporated a significant number of services and utilities within the road footprint. The road was finished to an extremely high standard of quality and was very well received by all stakeholders not least the local Mungret community.

Mungret LIHAF Delivery: Stage 2 Road Scheme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Celtic Interconnector Project

Developed by Eirgird and RTÉ (France), the Celtic Interconnector is a 700-megawatt high-voltage submarine power cable running over 600 kilometres from East Cork to the northwest coast of Brittany. This €1.6billion project provides the first two-way interconnector between Ireland and mainline Europe, and it will supply enough electricity to power 450,000 homes.

Sorensen was tasked with installing the ducting, cabling, fibre optics, junction boxes, tunnel works and all associated civil works on Irish soil running from the submarine interface at Youghal beach to the final termination point at Knockraha Substation in Carrigtwohill. The cable route was 45km in length situated within Local Roads, Regional Roads, National Roads and private agricultural lands. The 45km section of interconnector includes both 320kV (DC) cables and 400kV (AC) cables.

Celtic Interconnector Project

The interconnector is connected to the 220 kV electrical substation in Knockraha, located in East Cork, Ireland. Onshore infrastructure associated with the interconnector includes a 220 kV (AC) underground connection between the converter station and a landfall point on the Irish Coast adjacent to Youghal where it will meet the subsea connection.


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Annakisha Road Scheme

This TII safety initiative project involved the realignment of a section of the existing N73 Mallow Mitchelstown Road, between Annakisha and Ballygown. The works included the modification of existing junctions and the removal of unsafe bends on the existing road. The cross-section consisted of a single carriageway road with a cycle track/shared path on both sides behind the concrete surface water channel.

The works consisted primarily of earthworks, pavement, structures, drainage as well as road markings and signage. The scope of works also included kerbing, service protection and diversions, landscaping, safety barriers, and accommodation works. The route of the project encompassed a number of junctions with minor roads.

Smooth Point Pier Extension

The Smooth Point Pier Extension project entailed the extension of the existing quay facility at Killybegs, extensive dredging in front of the new quay wall, the construction of new combined quay wall structure with tie rods and anchor wall, in addition the construction of a suspended ground slab and infrastructure to accommodate the future installation of shore to ship power supplies.

The marine piling works involved the installation of Circular Steel Tubular Piles and steel sheet piles to form a combi wall along the quay wall.

Dredging was carried out to the specified level and removed in line with the Project Specification. The dredge material included extremely hard limestone rock and significant quantities of soft dredge material. All dredged limestone material was processed on site and reused within the works with the surplus soft dredge transported to a designated storage compound in Killybegs Habour.

N73 Clogher to Waterdyke Road Scheme

The scheme required the construction of a new road and shared footway/cycle track, including both online widening and offline construction of new carriageway between Clogher and Waterdyke. This project was a safety initiative by Cork County Council and Transport Infrastructure Ireland to improve this section of National Road and reduce future safety incidents.

The works entailed site clearance, fencing, excavation of the existing road adjacent to live traffic, excavation for the new road and adjacent cycle track facility, diversions of watermains, construction of new boundary walls, construction of new watermains, construction of road surface water drainage system, diversion of existing utilities/ services and provision of new utility ducts, construction of road pavement, provision of traffic management for the construction/ reconstruction of the road, taking up existing signage and provision of new signage, landscaping, construction of contractor designed farm underpasses under the new road alignment.

Dinish Wharf Extension Scheme

This prestigious project was located on Dinish Island, Castletownbere, Co. Cork. Our valued client, the Department of Agriculture, Food and Marine, set out to double the workable quay space within their busy Dinish Harbour. The project resulted in an additional 2.2acres of highly usable reclaimed quay storage areas, two new major breakwaters at the entrance to the harbour providing much needed shelter, dredging to the navigation channel, dredging to the new berth, inner basin and the synchro-lift making the boat yard more accessible for larger vessels. A shallow inner basin was also constructed for a small craft harbour to the benefit of small fishing vessels and leisure craft.

The Sorensen site team overcame many challenges on this project, not least of all the construction of the breakwater sheet piled cells during a challenging winter period. The team worked diligently under the supervision of our vastly experienced Directors, Louis Keating and David Sorensen, to constantly appraise and adjust the temporary works design to ensure that the cell construction was delivered safely.

Dinish Wharf Extension Scheme


CENTRAL HALL

Marina Park

Sorensen successfully delivered this eye-catching, high-profile, award-winning project for our valued client Cork City Council. The project provided a new outdoor public amenity that is now being used by the people of Cork City and its surrounding areas. The new park is a central part of the South City Docklands, situated on the historic former Cork showgrounds site. The design incorporated both an iconic urban park and a flood storage reservoir for times of extreme rainfall and future sea-level rise. Marina Park is a world class recreational area that sits comfortably into to its urban environs, complementing the impressive Páirc Uí Chaoimh facility which is situated immediately to the east of the new park.

Works entailed earthworks, dewatering tidal ground water, management of contaminated soils, deep drainage, vehicular and pedestrian bridges, central plaza steel structure, interactive fountain, realignment of the watercourse, polished concrete finishes to central plaza, street furniture, landscaping and ancillary works.

Marina Park

Sorensen proudly received an award for the best Civil Engineering Project under €10m from the Irish Construction Excellence Awards for the delivery of our Marina Park Project.


CENTRAL HALL

Youghal Eco Boardwalk

The Youghal Eco-Boardwalk Phase 2 comprised of the construction of a new 'Eco Boardwalk' on the seaward side of the Ballyvergan Dunes from Claycastle to Redbarn, Youghal, Co. Cork. The development is Phase 2 of the 'Eco Boardwalk' project and entails erection of an elevated composite structural steel / timber decking boardwalk on circular steel piles along the beach from the existing Claycastle car park to the existing Youghal Quality Hotel at Redbarn. The site was located along the sand dunes on the beach, which is an SAC site.

This project entailed driven piling works, fabrication and installation of structural steel elements, timber boardwalk construction, RC steps, RC footpath works and working to TII specification in a marine environment. The boardwalk consisted of pairs of circular steel piles at 2.4m centres which formed the foundations for the elevated boardwalk. A framework of galvanised steel support elements was bolted together and in turn bolted to the pile tops to form a framework for the timber decking. The boardwalk timber joists, and decking boards were bolted to the steel substructure.

N72 Ballymaquirk Roundabout Project

The project was a safety initiative by Cork County Council and Transport Infrastructure Ireland that consisted of replacing the existing four-crossroads on the N72/R579 Ballymaquirk Junction, with a new on-line roundabout. There were also realignment works on all the existing approach roads as well as drainage, utilities, fencing, traffic management and associated ancillary works. We are delighted to report that the new roundabout is providing a much safer passage through this busy road junction for the people of Banteer and the wider North Cork area.

Tarbert Jetty Repairs Project

This specialist marine jetty repair project was carried out on behalf of our client Scottish and Southern Energy (SSE) within the Tarbert Power Station Site in Co. Kerry. Sorensen liaised with SSE during the planning stages of this project to establish the safest, cleanest and most efficient way to implement the repairs whilst not impacting negatively on the environment.

The project entailed safely scaffolding the 4 large bridges, installing a sealed wrap system and dewatering system within the scaffolding to capture the shot blast arisings, replacing failed steel structural members, shotblasting and painting the bridges, removing the damaged jetty fendering system, and installing a new fender system along with ancillary building and civil works on the jetty.

Castletownbere Slipway Project

This project entailed the construction of a slipway 70m in length and 15m wide in the marine tidal environment of Castletownbere Fishery Harbour. The works entailed the construction of a piled slipway structure constructed using precast beams, with crushed stone infill and an in-situ reinforced concrete deck. Precast concrete facing panels were provided either side of the sloping returns. Stringent environmental control measures were implemented to protect the marine environment of the Castletownbere Fishery Harbour.


CREEDON'S

N24 Beary's Cross Road Project

The project was a safety initiative involving an upgrade to the existing junction on the N24 Limerick to Waterford National Road with the Regional Road R513 to Caherconlish/Mitchelstown. The works entailed the construction of a four-arm controlled roundabout junction, drainage attenuation, fencing, landscaping, public lighting, accommodation works and other ancillary site works.


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NO PARKING

Dingle Pontoons Project

This project was carried out for the Department of Agriculture, Food and the Marine. Sorensen replaced an existing pontoon and gangway system with a new pontoon and gangway system with greater capacity for berthing and passengers. The pontoon system is anchored in place with two steel support piles.


SLOW

Glanmire Road Improvement Scheme

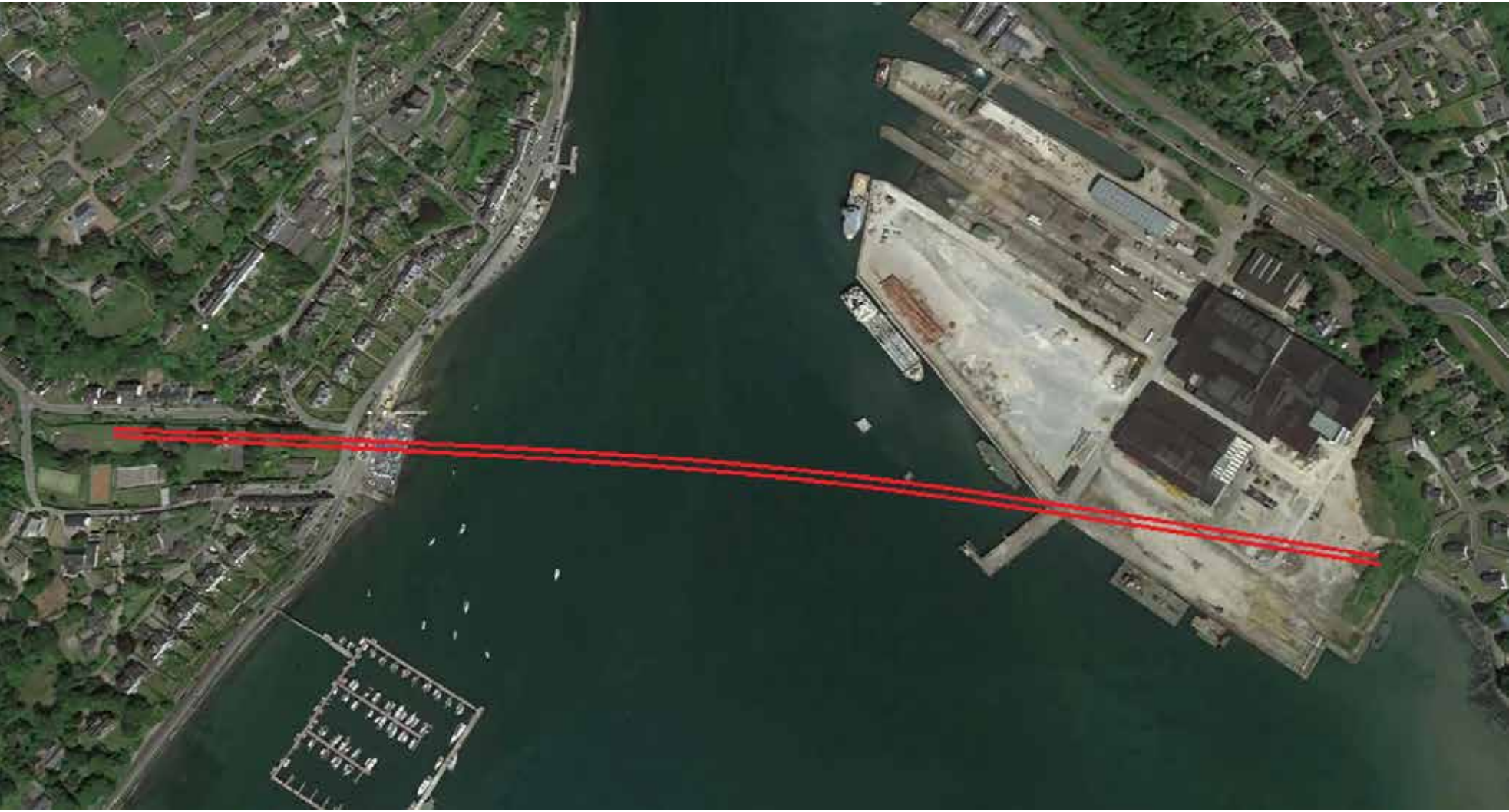
This project consists of the construction of new footways and cycleways, traffic lanes, accommodation works, retaining walls, traffic signals, utility works, public lighting, traffic signs, road markings and other ancillary works throughout Glanmire Village. The scheme has created an efficient, safer, and environmentally friendly road network, benefiting local residents, businesses, and commuters. It has enhanced transport options, reduced traffic congestion, and supports the growth of sustainable transport in the area.

Churchfield Reservoir

This 40 mega litre reservoir is located at Churchfield to the north of Cork City. It comprises of a 725m Diameter circular reinforced concrete structure and is a key piece of infrastructure for Irish Water in their ongoing supply of potable water to Cork City. This challenging and complex project involved the careful removal and replacement of the existing RC roof structure from the reservoir. The reservoir remained operational throughout the works.

Cork Lower Harbour Main Drainage Project - Horizontal Directional Drill

Twin 500mm Diameter x 1,030m long SDR-9 Pipelines. The two longest HDD's in Ireland.



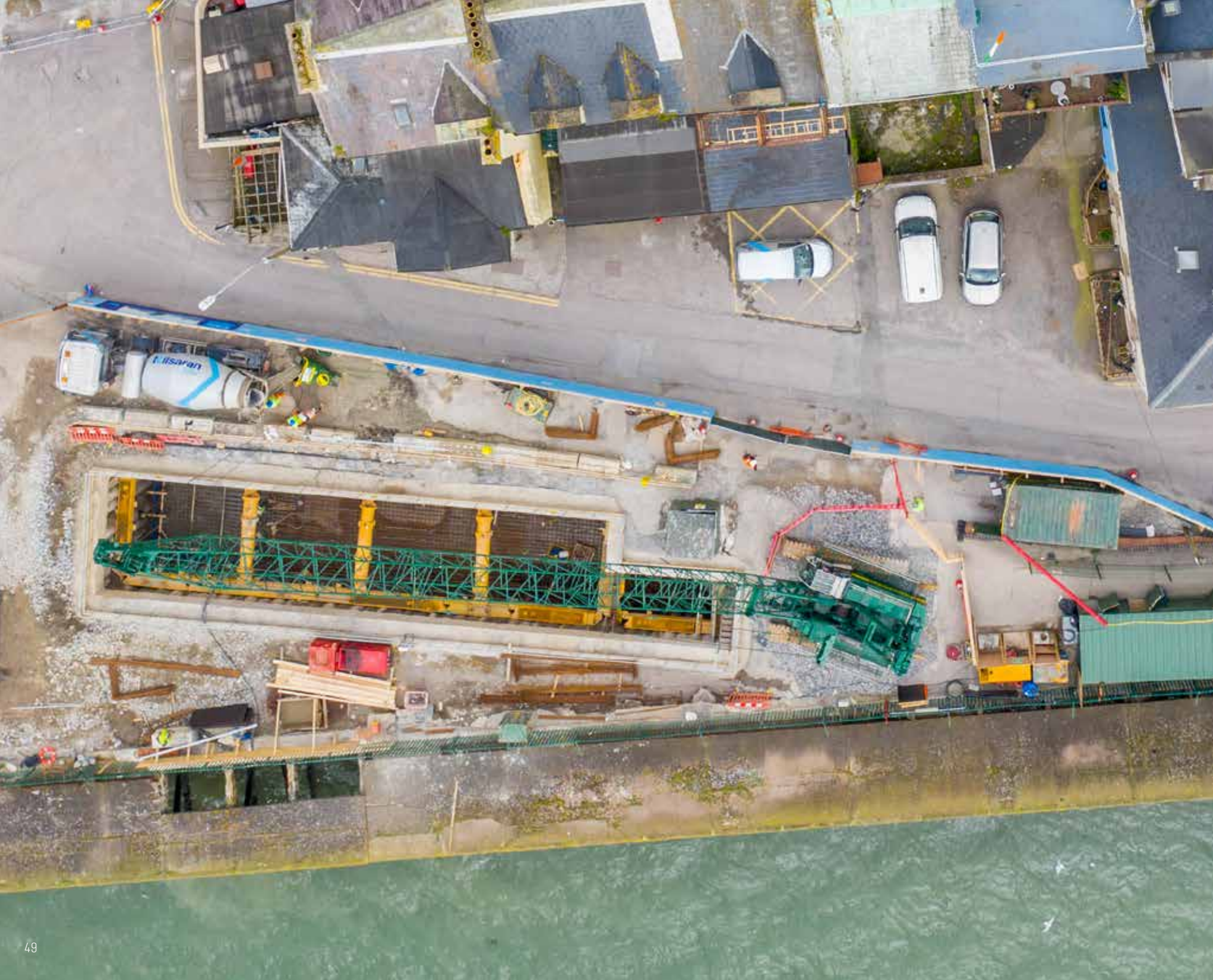
Cork Lower Harbour Main Drainage Project - Horizontal Directional Drill

This project consisted of the design & construction of two marine estuary crossing pipelines. Each 1,060m long within two Horizontal Directionally Drilled bores under the River Lee estuary, from the launch site in Cork Dockyard to the drill reception site at Glen Road, Monkstown. The pipelines cross the marine environment of Cork Lower Harbour. The pipelines were constructed by firstly drilling a borehole from the launch site to reception site. The size of the bore was then increased slowly using a reaming tool by repeating the process a number of times. When the bores were constructed to the required diameter, the pipelines were welded and placed on rollers. The pipelines were then pulled through the bores into their final position. Once the pipelines were fixed into final position, the annulus was grouted on both bores.

Releagh Slope Stabilisation Works

The N71 Releagh Retaining Walls Project was an emergency project following a sudden collapse of a National Road in the mountains of Releagh, Co. Kerry. The client was Kerry County Council and the funding body was Transport Infrastructure Ireland (TII). The works entailed the design and construction of 2no. concrete retaining walls required to repair significant slope subsidence at two localised areas. In excess of 10,000m3 of concrete was carefully placed as part of the retaining wall works. Steel rock anchors and steel dowels were installed to permanently stitch the new retaining walls into the hillside. A new vehicle restraint system, road drainage, new fencing, masonry works and road pavement construction all formed part of the work scope.

The project involved extensive traffic management works on the National Road, which is part of the famous tourist attraction, the Ring of Kerry. These emergency works were carried out during winter months and required considerable experience to prevent further slope subsidence during periods of heavy rainfall. The site was located in an environmentally sensitive area requiring extensive environmental protection and mitigation works. Construction works continued through a level 5 lockdown given the safety risks associated with the road slippages.



Cork Lower Harbour Main Drainage Project - Cobh Networks

This main drainage project was the final phase in Irish Water's project to clean up the wider Cork Lower Harbour. When Sorensen completed this project, we ended a decades-old practice of discharging raw sewage into the Lower Harbour. The equivalent of 40,000 wheelie bins per day of raw sewage is now being pumped from Cobh to Shanbally for safe treatment before final discharge into the sea.

The project entailed the design and construction of over 7km of large diameter low level sewer pipelines along the busy streets of Cobh town and 5no. new foul pumping stations that ultimately pump the raw sewage across the harbour and in to Irish Water's Shanbally wastewater treatment plant.

Sorensen is proud to have been awarded the Ervia Major Projects Contractor Safety Award in recognition of our proactive approach to health & safety throughout the Cobh Networks project.

N70 Kilderry Bends Road Scheme

The N70 Kilderry Bends Improvement Scheme comprised of the design and construction of a realigned section of roadway approximately 4.0 km in length between Milltown and Killorglin in Co. Kerry on behalf of our valued client Kerry County Council and funders Transport Infrastructure Ireland (TII). This new road scheme was a safety initiative by TII and Kerry County Council to bypass the existing Kilderry bends and improve the safety of the N70 road at Milltown.

The project was delivered ahead of programme, safely, within budget and to the highest standards in quality and environment.

Carrigtwohill Wastewater Treatment Plant

Sorensen Civil Engineering Ltd delivered this prestigious Wastewater Treatment Plant (WWTP) DBO project for Irish Water. We teamed up with our mechanical and electrical specialist partner, EPS to form Sorensen / EPS Joint Venture on this large Design, Build & Operate project.

On completion, this plant was one of only two plants in both Ireland and the UK to utilise the innovative NEREDA biological treatment system. The NEREDA process has made this plant a key learning centre for both Irish and international clients and will provide the capacity for further development in one of Cork's fastest growing satellite towns.

Commenting on the project, Minister David Stanton said: *"The increase in wastewater treatment capacity will allow for continued, future growth in population and economic activity, as well as in towns such as Castlemartyr, Cloyne, and Killeagh."*

HEALTH & SAFETY

At Sorensen, the health, safety, and well-being of our employees, clients, and partners are at the core of our operations. We are committed to maintaining the highest standards of health and safety across all aspects of our business, ensuring a safe, productive, and secure environment for everyone involved. We take a proactive approach to workplace safety, implementing comprehensive health and safety policies designed to prevent accidents and promote a culture of safety. Our health and safety management system complies with the strictest local and international standards, such as ISO 45001 and IOSH Certified Safe-T-Cert, which we have proudly achieved an A-rating status since 2008.

We understand that a safe workplace extends beyond physical safety. Sorensen is committed to supporting the overall health and well-being of our employees by promoting work-life balance, mental health, and wellness programs. Our emergency preparedness plans ensure that everyone knows how to respond in case of an emergency, protecting lives and minimizing disruptions. At Sorensen, we are constantly working to improve our health and safety practices through innovation, education, and employee engagement. By fostering a culture of safety and well-being, we aim to create a future where every employee feels secure, every product is safe, and every community benefits from our presence. Together, we are building a safer, healthier world for everyone.

QUALITY

Sorensen adhere to the highest quality standards, supported by our integrated management system incorporating Quality, Environmental and Health & Safety management, which in turn is supported by rigorous quality assurance processes and recognised certifications.

Our NSAI certified compliance to ISO 9001, ISO 14001 and ISO 45001, reflects our dedication to consistent quality in all aspects of our operations, from construction to handover. Sorensen are also certified by the Achilles UVDB Accreditation Body which allows us to demonstrate superior operating standards to clients throughout Ireland and the UK., leverage our strengths and successfully scale our business further in the civil & marine engineering industry. Our quality management system is designed with our clients in mind. We strive for excellence at every turn in the delivery process, ensuring that the needs and expectations of our clients are consistently met. Being an Engineers Ireland accredited employer demonstrates our commitment to professional standards and career development, making Sorensen more attractive to engineering professionals.

We believe that true quality goes beyond meeting current standards, it is about constantly raising the bar. Through our commitment to continuous improvement, we regularly evaluate and enhance our procedures, technologies, and methodologies. This approach allows us to remain at the forefront of innovation while ensuring that every service we offer is of the highest quality.

ENVIRONMENTAL SUSTAINABILITY

At Sorensen, we recognize our responsibility to protect the environment for future generations. Sustainability is a core value that guides our operations, and we continuously strive to reduce our environmental footprint while delivering high-quality projects. By adopting eco-friendly practices and promoting a culture of environmental stewardship, we are dedicated to building a greener, more sustainable future. As part of our effort to fight climate change, we continue to implement strategies to reduce carbon emissions. We prioritise designing eco-friendly, sustainable products that minimise environmental harm throughout their lifecycle. Sorensen is proud to meet internationally recognised environmental standards, ISO 14001, demonstrating our commitment to eco-friendly business practices. Beyond our operations, we actively engage with the communities we serve to promote environmental awareness and sustainability. Sorensen is committed to continuous improvement in our environmental performance. Through innovation, collaboration, and sustainable practices, we are not just meeting today's environmental challenges, we are shaping a better, greener future for all.

CORPORATE SOCIAL RESPONSIBILITY

At Sorensen, Environmental sustainability is a core focus of our Corporate Social Responsibility (CSR) strategy. We are committed to reducing our environmental impact and contributing to the preservation of natural resources through sustainable practices. We believe that success goes beyond profit, it's about making a positive impact on the world around us. Through our CSR initiatives, we are committed to creating lasting value for our employees, communities, and the environment. We take pride in being a socially responsible company that actively contributes to the communities in which we operate. Our community engagement initiatives are designed to make a meaningful difference in people's lives by addressing social, economic, and educational needs. Integrity and transparency form the foundation of our operations. We adhere to the highest standards of ethical conduct, ensuring that we operate responsibly and fairly at all times. Our employees are our most valuable asset, and their well-being is a top priority. We foster a supportive and inclusive work environment that promotes growth, balance, and wellness. As a responsible corporate citizen, Sorensen is committed to making a lasting positive impact on society and the environment.

We will continue to drive sustainable growth while contributing to the betterment of communities and the planet. Our CSR initiatives are not just part of our business strategy, they are part of who we are.

Together with our employees, partners, and stakeholders, we are shaping a brighter future for all.

RESOURCES

Sorensen's Unique Selling Point is our self-delivery model. This model provides Sorensen and by extension our clients greater control over project programmes and project quality. We own a wide variety of civil and marine engineering plant and equipment including excavators, dumpers, trenchers, impact piling hammers, vibro piling hammers, tracked cranes, spud leg barges, work boats, safety boats, pontoons, road trucks, compaction plant, generators, pumps, compressors and small plant & equipment, all of which are maintained by our full-time team of trained plant fitters. We have a large plant maintenance yard in Cork that services all our projects. We are committed to ongoing investment in our plant fleet to facilitate further growth in our company and to satisfy the construction industry's demands. To complement our large plant fleet, we employ the best machine operators, pipe layers and tradesmen in the construction industry. These experienced trained employees allow Sorensen to deliver extremely high-quality projects for all out clients. We pride ourselves in possessing a proven and experienced supply chain including suppliers and subcontractors that can mobilise and deliver construction projects with Sorensen throughout the country as and when required. Our supply chain is fully committed to our approach to safety, quality and environment management.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