



WATER INFRASTRUCTURE

Specialist Civil Engineering and Piling Contractors





WHO WE ARE...

DAWSON-WAM are specialist civil engineering and piling contractors with operations in the UK and Ireland.

The company undertakes large scale civil engineering and piling projects for public authorities, contractors and developers.

The company was founded in 1971 and has based its business around a collaborative approach to provide our clients with innovative cost effective solutions to today's construction challenges.

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CONSIDERATE CONSTRUCTOR SCHEME COMPANY PARTNER

In recognition of our efforts and commitment to improving the image of construction DAWSON-WAM Ltd are delighted to be a founder Company Partner within the Considerate Constructors Scheme Company Registration.

We have welcomed the opportunity to work closer with the Scheme, share best practice and promote further registration within the industry. The Schemes principles have become our policies and we hope to continue to have a positive impact on the future of the Scheme.

We consistently achieve scores of 45/45 for our effort within the CCS winning Gold in 2024, Most Considerate Site in 2022 and the Leading Light Award in 2022 for Plastic Reduction.

APPRENTICISHIPS AND UNDERGRADUATE PROGRAMMES

We have a long history of nurturing and encouraging young people into our industry. 80% of our senior leadership have come from junior positions within the company. We are members of the 5% Club Charter.

Our Harry McFarland who is an apprentice civil engineer with the company won Apprentice of the Year at the most recent Construction Employers Federation Awards.



SUSTAINABILITY & CARBON

Through our ISO14001 and PAS2080 accreditations we champion sustainability and carbon reduction at every opportunity. Planting of trees, solar power, ground source heat pumps, electric vehicles, Eco Sheet Pile Plus, low carbon concrete, steel mat hire, energy efficiency drives, second hand sheet piles reuse.

To highlight our sustainability credentials we have won the CED Sustainability Company of the Year, and achieved 83.8% and 93.0% in our most recent CEEQUAL awards.

SOCIAL VALUE

We are actively involved as CITB & ICE Ambassadors delivering career talks to young people and those interested in a career within the industry. We locally support schools through the CITB Adopt a School initiative which kick started in 2020.

We have a set KPI target for volunteering hours against such programmes. Volunteering provided previous includes people power and materials to better local groups and enterprises in the areas that we work.

We set clear targets for engaging local employment and buy local policies within each location that we work.





BELFAST WWTW

£10M upgrade to the Duncrue Treatment Works, providing two new 7.5ML tanks which are approximately 8m deep.

The upgrade works were completed some 25 years after DAWSON-WAM constructed the original works with some of the same team still involved.





NEWCASTLE WASTEWATER TREATMENT WORKS EXTENSION

New £10m extension to Newcastle's Sewage Treatment Works to house a secondary treatment stream, storm storage facilities, an inter-stage pumping station and UV disinfection.





CULMORE WASTE WATER TREATMENT WORKS

New treatment facility including refurbishment of existing plant. Works included construction in reinforced concrete of a large activated sludge plant ASP, overall dimensions 78m x 66m x 6m deep; 6 final settlement tanks, 23m diameter; a 96m x 33m x 4.5m deep storm retention tank and 2 pumping stations, plus various other minor structures. 12,000 cubic meters of concrete were poured, and 1400 tonnes of reinforcement.





KNOCKBRACKEN STORM OVERFLOW UPGRADE

£6M upgrade to local wastewater network, providing environmental improvements to help support future developments in the Carryduff Area.





CASTLE PARK WWPS

A 25m diameter Segmental Shaft Pumping Station comprises of 3,900m³ storage and associated pipework to deal with the additional flows created due to closing four CSOs in the Bangor area. The works when commissioned will improve water quality in Belfast Lough.





UPPER NEWTOWNARDS ROAD PHASE 2, FLOOD ALLEVIATION SCHEME

Design, construction and commissioning of 1.8km Sewer upgrade scheme to alleviate flooding from the existing sewer network and replacement of Knock Road CSO. The crossing of the Upper Newtownards & Knock Road junction was completed by trenchless techniques (120m x 1200mm diameter Pipe) to minimise traffic disruption and avoid services conflict.



ORMEAU AVENUE SEWER UPGRADE

£5M project to upgrade the sewers in Belfast and reduce environmental pollution to the River Lagan.





QUEENS BRIDGE SIPHONS, BELFAST

The project scope included, a replacement reinforced concrete Siphons chamber & penstocks, and extensive cleaning and remedial repairs to the 100 year old Siphon's pipes located 9m below the River Lagan.





WARRENPOINT

One shaft, fitted with a dividing wall, is a foul and storm pumping station capable of pumping 250 litres per second during storm conditions via 1800 meters of 500mm diameter pumping main constructed within the carriageway towards Warrenpoint wastewater treatment works. The second shaft is a storage tank connected to the pumping station. The combined capacity of the two tanks is more than 800 cubic metres during storm conditions, thus reducing the chances of flooding throughout the town.





BRIDGE STREET WWPS, STRABANE

A new pumping station was constructed below ground to replace the existing 40 year old station improving the visual impact of the facility.





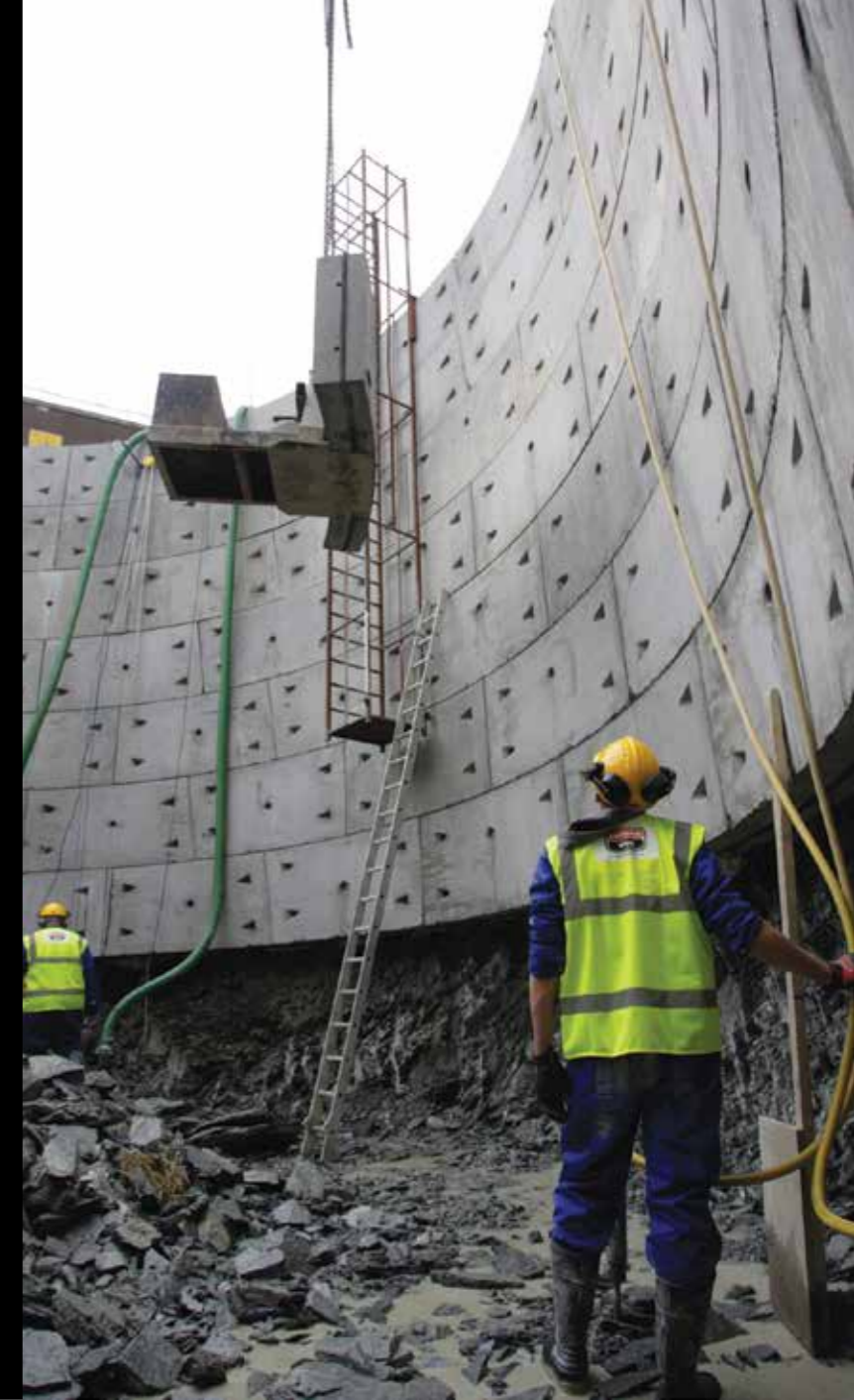
DUNMURRY WWTW, BELFAST

Design and construction of a new industrial unit to cover sludge import facilities, sludge storage, sludge dewatering and cake loading.



PENNYBURN PUMPING STATION

Top down construction of new pumping station. Works included construction of pump shaft; new control building and outfall into Lough Foyle.





NI WATER SLUDGE TANK PROGRAMME

Retrofitting of FRC sludge tanks to existing treatment works across Northern Ireland in a 5 year programme of works.





LOWER WOODBURN WWPS

As part of Belfast's strategic 'Living with Water Programme' (LwWP), NI Water has invested £1.8m to upgrade Lower Woodburn WwPS by increasing the volume of storm emergency overflow storage and installing a static screen.

The solution also facilitates housing (315 units) and hospitality/recreational developments that discharge directly to the WwPS and delivers storm separation of 17.8 hectares of impermeable ground.





CARMONEY TO STRABANE STRATEGIC TRUNK MAIN

Installation of 9.5km of 500mm diameter clean water pipeline crossing field, roads, rivers and significant areas of environmental importance.

Part of the works included a 366m long horizontal directional drill under a prolific sea trout river.

Works included the construction of a £3.5m pumping station, bringing the total value of the project to £12.5m.





**ALDERGROVE TRUNK MAIN,
ANTRIM FOR NI WATER**

Design and installation of 3.7km of 600mm diameter foul sewer and some 80 nr. manholes.



**CASTOR BAY STRATEGIC
TRUNK MAIN, NI WATER**

Installation of 350-700mm fresh water pipework and pumping stations.





GULLADUFF RBC PLANT - NI WATER

The works included the construction of an inlet works, primary, secondary and final treatment, plants, FE pumpaway to Knockloughrim WWTW along with sludge and storm storage facilities.



MOYGASHEL SEWERAGE IMPROVEMENT SCHEME

Works included laying of 7.5km of 600mm diameter HPPE pipeline and construction of pumping station.



KILLYHEVLIN

Design and build of 1.5ml reinforced concrete Clear Water Tank adjacent to Lough Erne, including a new inter-stage pumping station and outlet pumping stations.



DUNGANNON WWTW UPGRADE

Upgrading of the existing treatment works to meet the hugely increased demand from population growth and industrial processes.





ERGANAGH WASTEWATER PUMPING STATION

Construction of a new wastewater pumping station in a very restricted site using a circular secant shaft.



SHORE ROAD SEWER REHABILITATION

Relining of 500m of 4m deep brick sewer to provide a more robust network and will help prevent out of sewer flooding.



CAMPBELTOWN FLOOD DEFENCE SCHEME

£15M scheme including flood walls, berms, attenuation tanks and ponds, and associated upgrade of pipework in the town.





SHIMNA FLOOD ALLEVIATION SCHEME

The works included the construction of over 1.4km of secant piled flood walls with clad FRC walls.

Works also included the construction of earth embankments, flood gates and roughing grill. The project achieved an Excellent CEEQUAL score of 83.8% and won the Considerate Constructors Award for Plastic Reduction.





KING POST WALL, GLAMORGANSHIRE CANAL, PONTYPRIDD

Installation of 250m king post wall for a canal upgrade.



MONEYMORE FLOOD PROTECTION SCHEME

Works included construction of 750m of secant piled floodwall installed within 500mm of existing dwellings; associated civil engineering works, rock armour placement, re-instatement of neighbouring gardens. The scheme achieved an 'Excellent' - 93% CEEQUAL Award and a 'Silver' as part of the Considerate Constructors Scheme. An excellent example of sustainable construction.





CAMPBELTOWN QUAY WALL REPLACEMENT

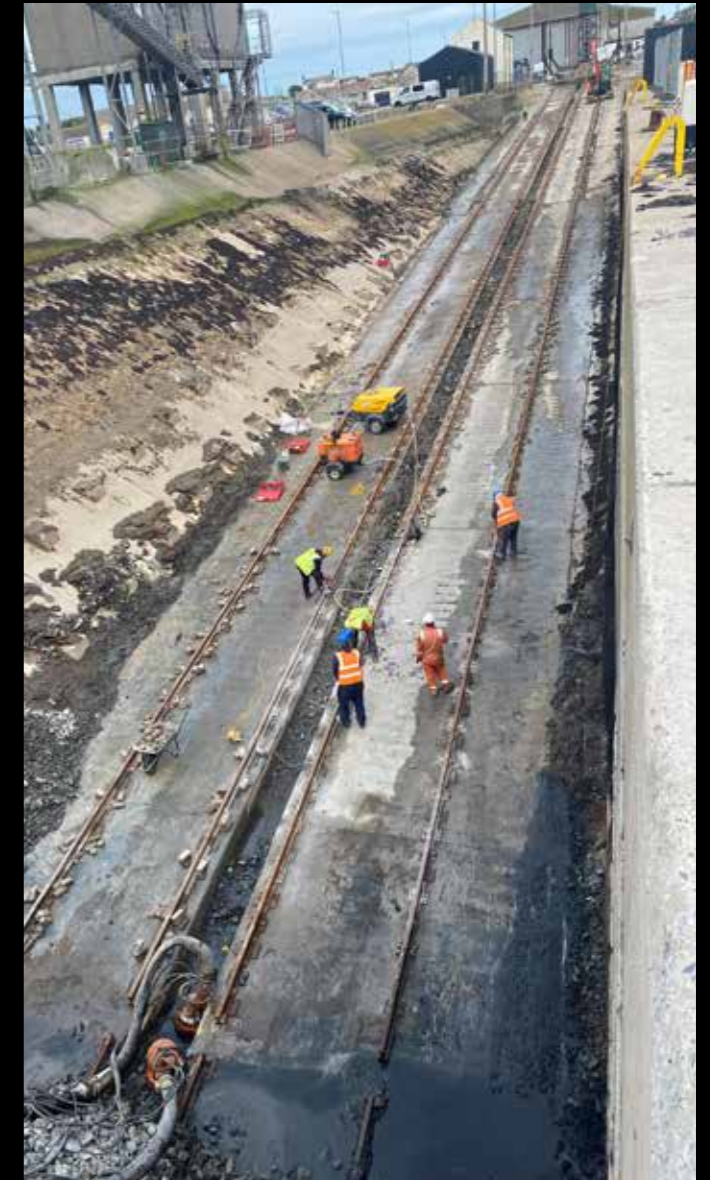
Replacement of over 100m of quay wall, associated ground anchors and capping beam, and a substantial dredging scope in a live harbour environment at the heart of Campbeltown.



PORTAVOGIE SLIPWAY UPGRADE

Replacement of the existing 160m long slipway rails plus reinforced concrete surround.

A temporary dam structure was installed to create a dry environment for works to be completed.





GLOUCESTER AND SHIPNESS CANAL DIVERSION SCHEME

Works included installation of 600 linear m. of sheet piles and associated tie bar and anchor system.



ABERCORN EAST QUAY WALL, BELFAST HARBOUR

Construction of new 200m long quayside in the heart of Belfast's Titanic Quarter. Works required the installation of 23m long AZ50 sheet piles and reclamation of 2000 m sq of land for new mixed use development



DURLEIGH WTW, SOMERSET

Construction of a secant wall tank approximately 30m by 25m for an upgrade to a major water treatment works. Works included innovative shear keys incorporated within the pile with the aim of reducing HAVS.





THAMES TIDEWAY PROJECT, LONDON

Secant piled rescue pit for a tunnel boring machine. Works were completed within the confines a narrow residential street with properties on both sides.



SOUTH WALES GAS PIPELINE

Construction of launch and reception pits for the 115 mile 1220mm gas pipeline in Brecon Beacons.



CHRISTCHURCH STW, WESSEX WATER

Sheet piled temporary cofferdams for upgraded and increased capacity sewage treatment works to allow passage of 50,000 m³/day.



PENN MILL SEWAGE TREATMENT WORKS, YEOVIL

Construction of circular sheet piled retaining walls and load bearing piles for a STW extension.



MEXBOUROUGH

Installation of a secant walled storm attenuation tank with a capacity of 400,000 litres scheme to reduce the risk of sewer flooding to parts of Mexborough.





COLESHILL SECANT SHAFT, BIRMINGHAM

Construction of a circular secant shaft for a reception pit for a TBM for advanced works on HS2. Piles were 18m in length and retained 14m without propping.





**GROVE FARM, FLEET, HAMPSHIRE
FOR THAMES WATER**

Sheet piled cut off water and noise barrier for new pumping station to prevent the potential for sewer flooding.



**ATTENUATION TANK,
POCKLINGTON**

Construction of a Secant Piled Attenuation Tank for Yorkshire Water to hold 390m³ of water allowing slow release of storm water from the new housing development.





MARSDEN RESERVOIR SPILLWAY UPGRADE, YORKSHIRE WATER

Installation of Cased CFA contiguous piled wall to expand and strengthen the existing spillway located in the heart of Marsden Moor.



NINE ELMS 132KVA SUBSTATION

Construction of a new basement, including secant walls, propping and reinforced concrete works, for a new 132kVA substation for Nine Elms and Battersea areas of London.



MOORTOWN RESERVOIR, LEEDS FOR YORKSHIRE WATER

Installation of Cased CFA contiguous piled wall for an 8 million litre reservoir serving 27,400 properties across West Yorkshire.



ABBEY MILLS PUMPING STATION EAST LONDON FOR THAMES WATER

Installation of temporary cofferdams to facilitate the construction of one of the 3 principle pumping stations in London.



ASHTON AVENUE PUMPING STATION, BRISTOL FOR WESSEX WATER

A permanent sheet piled retaining wall, bracing and load bearing piles for the expansion and improvement of the existing storm water pumping station.





CONLIG ATTENUATION TANK

Construction of the largest attenuation tank in Ireland using SuDS



STRONGFORD WASTE WATER TREATMENT WORKS

Works included installation of 4 temporary works cofferdams and propping to enable deep construction.



QUEENBOROUGH WWTW

Foundations works to facilitate the construction of a new Final Settlement Tank at the treatment works to increase capacity. Piles of up to 28m in length required permanent casings due to significant depth of very soft clays. The works were in the environmentally sensitive Greater Thames Marshes Nature Improvement Area and were home to a resident barn owl.

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