



EXPERTISE

# OUR EXPERTISE INDUSTRIAL

CAPABILITY STATEMENT



## OUR COMMITMENT TO ZERO HARM

**AT BMD, THE SAFETY OF OUR PEOPLE, THE  
COMMUNITIES AND ENVIRONMENTS IN WHICH  
WE WORK HAVE BEEN A PRIORITY SINCE  
OUR INCEPTION IN 1979.**

Through our Zero Harm goal, BMD aims to ensure each and every person who comes into contact with our business remains safe and in good health whilst in our care. Jointly we are committed to minimising environmental harm through the implementation of best practice environmental management. Our Zero Harm goal encourages us to constantly strive to improve our Workplace Health and Safety standards. It allows us to remain vigilant and accept our individual responsibility for our actions, and the implementation and continual improvement of our safety and environmental systems and methodologies.

**The BMD Group** has more than 1,700 employees working throughout Australia and is supported by third party certified management systems, substantial balance sheet strength and the resources and flexibility of a large Australian owned private company.

# SPECIALIST CONTRACTOR FOR INDUSTRIAL PROJECTS

**NATIONAL COMPANY** 1979  
— ESTABLISHMENT —

**LOCAL INVESTMENT IN PEOPLE, BUSINESSES AND THE COMMUNITY**

**STRONG** HEALTH, SAFETY, ENVIRONMENT, QUALITY AND COMMERCIAL SYSTEMS

**BMD DELIVERS ON**

**PROJECT DELIVERY EXPERIENCE** IN BUILDINGS, STRUCTURAL, MECHANICAL, PIPING AND ELECTRICAL SOLUTIONS

- | **A PATH TO ZERO HARM**
- | **SPECIALIST INTEGRATED PROJECT TEAMS**
- | **QUICK AND EFFECTIVE DECISION MAKING**





# OUR BUSINESS

AS PART OF THE BMD GROUP'S ONGOING DIVERSIFICATION, AN OPPORTUNITY WAS IDENTIFIED TO EXPAND THE BUSINESS, TAKING ADVANTAGE OF THE COMMODITIES DEMAND IN A VERSATILE INDUSTRIAL MARKET. THIS LED TO THE ESTABLISHMENT OF BMD INDUSTRIAL IN 2010, ENHANCING BMD'S PORTFOLIO OF CAPABILITIES AND SERVICES.

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BMD Industrial, a division of BMD Constructions, delivers exceptional structural, mechanical, piping, electrical and facilities solutions in the water and wastewater, energy and resources, manufacturing, and utilities and services sectors.

Managed by a group of highly experienced industry executives, BMD Industrial assembles professional project teams to deliver excellent outcomes for a diverse range of clients and their respective industries.

BMD Industrial continues to adapt to the needs of a multidisciplinary market, expanding capabilities and focusing on building experience through a vast range of projects, managing to stay competitive through any economic downturn or surge.

The Industrial division is well positioned to service clients throughout Australia, strengthened by the support of, and opportunity to, collaborate with other BMD Group business units. Efficiencies and cost savings can be captured through synergies gained from BMD Industrial working closely together with these business units, across vertical packages of work.





AS PART OF THE BMD GROUP, BMD INDUSTRIAL IS PROUD OF OUR ABILITY TO BUILD LONG-TERM CLIENT RELATIONSHIPS AND SECURE REPEAT BUSINESS, WHICH HAVE BEEN THE FOUNDATION OF BMD'S SUCCESS SINCE INCEPTION.

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BMD INDUSTRIAL IS COMMITTED TO DELIVERING THE HIGHEST STANDARDS OF QUALITY, SERVICE AND VALUE FOR MONEY FOR OUR CLIENTS. OUR STRATEGY IS SIMPLE: VALUE OUR PEOPLE, COLLABORATE WITH OUR PARTNERS AND CONTINUE TO DELIVER EXCEPTIONAL PROJECTS WITH SUSTAINABLE OUTCOMES THROUGH EXPERTISE AND KNOWLEDGE SHARING.

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# THE BMD WAY



## LOCAL INDUSTRY PARTICIPATION

**In line with the BMD Group's approach to business, BMD Industrial's operations are firmly underpinned by a philosophy to 'support the local communities in which we operate' – a philosophy that was well established long before local industry participation initiatives were formally introduced.**

Every project, no matter how large or small, is an opportunity to contribute to the communities in which we operate, including aiding in the development of the local industry. This way of business not only results in excellent relationships with the local communities we operate in, but it provides an enhanced skills legacy post project completion.

The BMD Group has established a different way of doing business including utilising the plant and equipment of local providers as opposed to owning and maintaining our own fleet. Further, BMD Industrial professionally manages our suppliers and subcontractors and predominately use local resources to achieve the best possible outcomes for our clients, in line with the BMD Group's mission.

## COMMUNITY ENGAGEMENT

**Building on the group's founding philosophy, BMD Industrial approach each project individually, actively identifying opportunities for local community engagement and participation that will provide beneficial outcomes for the project team, client and local community alike.**

We work in partnership with Indigenous and non-Indigenous organisations who embody our values to achieve long lasting benefits in areas including health and wellbeing, arts and culture, job creation, environment, and social and community development.

Our continued focus is on equal opportunities and increasing our commitment to Indigenous Engagement across the Group to create a diverse workforce. We have extensive experience working in regional and remote areas and within Aboriginal and Torres Strait Islander communities. Our policies, plans, initiatives and training programs support our commitment to provide equal opportunities. Over the past 10 years, we have worked diligently to engage and train Indigenous employees with the establishment of Indigenous participation plans on numerous projects.



### LUDMILLA WASTE WATER TREATMENT PLANT UPGRADE

DARWIN, NT | \$17 MILLION

[POWER AND WATER CORPORATION](#)

The Ludmilla Waste Water Treatment Plant is situated in the Darwin suburb of Ludmilla. The expansion was for the Northern Territory Government's Department of Power and Water Corporation who are responsible for the delivery of sewerage services to the Northern Territory.

BMD Industrial was engaged to supply and construct the expansion works to the final component in the major redevelopment of the sewerage collection and treatment system, which services a large portion of the Darwin area.

The scope of works included:

- **Modifications to the existing inlet works, a coagulation and flocculation tank, installation of four chemically assisted sludge and a feed averaging tank.**

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- **Construction of a dewatering system located within the dewatering building and a new chemical dosing building containing a dual dosing system.**

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- **Installation of an odour control facility including a refurbished lime system, expansion of the existing chlorine dosing system, and a new switch room to service the expanded plant.**

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BMD Industrial made a concerted effort to ensure a high percentage of Northern Territory suppliers and subcontractors were engaged for the duration of the project.



### TASWATER PLANT INLET WORKS

VARIOUS, TAS | \$6 MILLION

[TASWATER](#)

The TasWater Inlet Works project involved the design, supply and construction of new inlet facilities to 11 sewage treatment plants across Tasmania. Each of the individual sites were unique and required individual diverse solutions to ensure primary treatment requirements were met, whilst not interfering with the daily operations of the existing treatment plants which discharged in sensitive waterways.

The project's key deliverables included:

- **New screening equipment, grit removal and dewatering, odour control, pumping and filtration.**

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- **All civil, structural, mechanical and electrical works.**

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- **Supervisory control and data acquisition integration and coordination required to provide fully automated inlet works facilities.**

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The project's success was partially due to the high level of integration and interface between BMD project personnel and TasWater operational staff enabling the works to proceed efficiently without interruption to the existing operating facility. This collaborative approach, through regular joint planning at onsite meetings, presented an opportunity to discuss the status of planned works and interface with operational requirements.

BMD Industrial engaged 85% of suppliers and subcontractors from the local market with only three contracts awarded to interstate suppliers due to goods not being able to be sourced locally.

# THE BMD EXPERIENCE



## MELBOURNE UNDERGROUND RAIL LOOP STATION AND TUNNEL UPGRADE

MELBOURNE, VIC | \$8 MILLION  
METRO TRAINS MELBOURNE

The Melbourne Underground Rail Loop (MURL) station and tunnel fire hydrant upgrade involved the replacement of the fire hydrant systems throughout the four MURL tunnels and three stations for Metro Trains, Melbourne.

BMD Industrial was engaged to upgrade the existing system which was reaching the end of its design life and was successfully replaced whilst maintaining a fully functional system.

The scope of works included:

- Decommissioning and removal of existing DN100 fire hydrant piping and components throughout the four MURL tunnels.
- Installation of over 13 kilometres of DN150 fire hydrant pipework and associated fire equipment.
- Replacement of entire fire hydrant systems within Parliament, Melbourne Central and Flagstaff stations, involving public concourse and shopping areas, service corridors and under platform areas.
- Upgrades to all town main connections conforming with authority requirements and regulations.
- Maintaining safe operation of public transport services to the local community of Melbourne and other users of the MURL during the station and tunnel fire hydrant upgrade.

The project's success was a result of completing the majority of works within schedule taking into account a number of unforeseen challenges, including the majority of works presenting heavy interaction with the public and transport services.



## CAVAL RIDGE UTILITIES WORKS

MORANBAH, QLD | \$55 MILLION  
BMA – BECHTEL AUSTRALIA PTY LTD

BMD Industrial was awarded the contract for the supply and installation of all site wide utilities services, which were required to service and assist with processing mining operations.

The works comprised of above ground and underground piping services over a 180km<sup>2</sup> site.

The extensive range the project's scope included:

- Pipework - installing over 90 kilometres of high density polyethylene pipework ranging in size from DN25 to DN630, as well as large bore galvanised carbon and stainless steel at the truck stations and water storage tanks.
- Structures - concrete works including 21 dam pump skids, foundations and columns for structural steel at three truck fill stations, as well as load panel and distribution board platforms.
- Electrical - site wide power distribution including pit, conduit and platform installation, cabling, cable ladders, area lighting and CCTV system.
- Communications - installation of fibre optical communication, in pit wireless systems and instrumentation.
- Civil - foundation earthworks for the pump skids, truck fill stations, explosives magazine, communications tower and trenching, and underboring road crossings at Peak Downs Highway.

The project was successfully managed across multiple work fronts including civil, structural, mechanical, piping and electrical disciplines. BMD Industrial expedited these works by investigating design changes and working collaboratively, achieving a desirable outcome for the client within an extremely condensed time frame.



## VICTORIA INTERNATIONAL

### CONTAINER TERMINAL – WEBB DOCK

PORT MELBOURNE, VIC | \$200 MILLION

VICTORIA INTERNATIONAL CONTAINER TERMINAL LTD

**BMD was engaged by Victoria International Container Terminal Ltd (VICT) to complete the mechanical and electrical construction works for the VICT and empty container park.**

The project will reconfigure Webb Dock, returning it to its original role as an international container handling facility. The facility is one of the most technologically advanced, environmentally sustainable, and safest container terminals in the world, capable of handling the equivalent of at least one million shipping containers per annum.

The industrial scope of works involved the installation of:

- **Electrical works across the site including considerable high voltage and low voltage installations for new substations, transformers and distribution boards.**
- **Lighting and earthing system for all sites, including installation of a state of the art lighting system in the container terminal area.**
- **Industrial and office buildings including civil works, structural steel warehouse construction involving pavements, foundation construction, warehouse, workshop and office structures, services installation, and mechanical and office fit out.**
- **21 towers to access refrigerated containers stacked five high including significant electrical installation to power the heavy demand from the refrigerated containers.**
- **Mechanical and electrical installation of automatic truck handling system equipment and truck driver kiosks.**

The team comprised of mechanical and electrical engineers who worked collaboratively with key stakeholders. They identified efficiencies to save on construction costs by understanding the complexity and multi-disciplined requirements, and international nuances to ensure the delivery of an end product that was compliant to Australian Standards.



## TARONG ENERGY ASH DISPOSAL TO MINE VOID

KINGAROY, QLD | \$27.6 MILLION

TARONG ENERGY CORPORATION LTD

**Located 180 kilometres north-west of Brisbane, the Tarong Power Station can supply electricity to the equivalent of eight cities the size of Toowoomba.**

BMD Industrial was engaged to design, procure, construct and commission the mine's technically advanced ash disposal system.

The system collects, liquefies, pumps, transfers and places ash slurry from the two power stations to a disposal site five kilometres away.

The ash collection involved two kilometres of 150 diameter extra strong carbon steel pipe, one megalitre steel tank, support structure and agitator and converting the ash to a slurry (55% concentration).

BMD was responsible for the entire turn key process including mechanical, civil, structural, electrical and control features.

BMD's key initiatives for success included prompt design development, identifying and expediting procurement of long lead time items and focusing on commissioning and operations early.

Additionally, ash placement in the mine void met the strict geological and environmental mine requirements.

# THE BMD EXPERIENCE



## BINGEGANG PIPELINE RELOCATION

MIDDLEMOUNT, QLD | \$13.5 MILLION

MIDDLEMOUNT COAL PTY LTD

The Bingegang Pipeline realignment project involved the construction of a new 14 kilometre, 450 millimetre diameter pipeline to replace the existing infrastructure.

BMD Industrial delivered the project's scope requirements including:

- Design and construction of pump station building.
- Construction of 14 kilometres of ductile iron pipe and fittings for the pipeline and associated concrete structures including install of scour valves, air valves and thrust blocks.
- Design, supply and installation of break tanks including earthworks, concrete works and tank installation.
- 8.5 kilometres of 66 kilovolt (kv) overhead line involving recovery of existing line, installed landing beam and commissioning of line.
- Design and construction of the pump station electrical works including installation of conduits, lighting, cathodic protection, earth grids, switch boards.
- Design, supply and installation of pipe lining and coating and supervisory control and data acquisition.
- Design, supply and installation of 66kv switch yard including transformers.
- Commissioning of pump station.
- Construction of all associated civil works including access roads, drainage, fencing, temporary water lines and wash down bay and demolition of existing pump station.

BMD Industrial's approach to the ultimate design, in conjunction with the construction, resulted in the successful delivery of the pipeline on time and under budget.



## SYDNEY MALTING FACILITY

MINTO, NSW | \$100 MILLION

VITERRA

Viterra has facilities across the world providing high quality malting ingredients to global manufacturers. The Minto facility located in outer Sydney includes a 110,000 tonne per annum malting plant, a 120,000 tonne per annum grain cleaning facilities and a bulk container loading facility for road freight.

Engaged as managing contractor, BMD Industrial was responsible for managing the construction of all civil, structural, mechanical, process, electrical, instrumentation and controls on this \$100 million upgrade.

The key scope included:

- Installation of mechanical, electrical, hydraulic, refrigeration and heating services for the production of malt and the separate handling and cleaning of various grains.
- Construction management of major structures including civil works, foundations, steelwork, cladding/insulation, pre-cast concrete and mechanical equipment (motors, conveyors, elevators, fans/pumps, compressors, condensers, heat exchangers and valves).
- Supervision and management of over three kilometres of underground services including chilled water, high pressure water, stormwater, trade waste, fire, gas mains water and electrical.

BMD successfully coordinated 120 site staff across 18 different trade groups, fast tracking construction with site activities following 'for construction' drawings by only one month.



## WATER AND WASTEWATER



### CHRISTIES BEACH WASTE WATER TREATMENT PLANT OUTFALL PIPE

CHRISTIES BEACH, SA | SA WATER



### TOOWOOMBA SEWERAGE NETWORK ENABLING PROJECT

TOOWOOMBA, QLD | TOOWOOMBA REGIONAL COUNCIL



### MOUNT CROSBY WATER TREATMENT PLANT

MOUNT CROSBY, QLD | SEQWATER

## UTILITIES AND SERVICES



### VICTORIA INTERNATIONAL CONTAINER TERMINAL – WEBB DOCK

PORT MELBOURNE, VIC | VICTORIA INTERNATIONAL  
CONTAINER TERMINAL LTD (VICT)



### VALES POINT POWER STATION

MANNERING PARK, NSW | DELTA ELECTRICITY



### WHITMORE SQUARE SUBSTATION

ADELAIDE, SA | ETSA UTILITIES

# THE BMD EXPERIENCE

## MANUFACTURING AND HEAVY INDUSTRIES



### QG1 FERNACE COOLING SYSTEMS REBUILD

BRISBANE, QLD | O-I AUSTRALIA PACIFIC

## ENERGY AND FUEL



### ACTION BUSES FUEL UPGRADE – TUGGERANONG

CANBERRA, ACT | ACT GOVERNMENT

## RESOURCES



### BINGEGANG PIPELINE RELOCATION

MIDDLEMOUNT, QLD | MIDDLEMOUNT COAL PTY LTD



### BERRI ESTATES NEW WINE TANK FARM

GLOSSOP, SA | HARDY WINE COMPANY



### HMAS COONAWARRA NAVAL BASE

DARWIN, NT | DEPARTMENT OF DEFENCE



### OLYMPIC DAM MINE TRAILS DISPOSAL UPGRADE

ROXBY DOWNS, SA | BHP BILLITON



### SYDNEY MALTING FACILITY

MINTO, NSW | VITERRA



### ACTION BUSES FUEL UPGRADE – BELCONNEN

CANBERRA, ACT | ACT GOVERNMENT



### ULAN WEST ADMINISTRATION AREA SERVICES

MUDGEE, NSW | GLENCORE XSTRATA



# THE BMD GROUP

BMD IS A NATIONAL GROUP OF COMPANIES ENGAGED IN ENGINEERING DESIGN, CONSTRUCTION AND LAND DEVELOPMENT FOR CLIENTS AND PARTNERS IN THE URBAN DEVELOPMENT, TRANSPORT INFRASTRUCTURE AND RESOURCES AND ENERGY SECTORS.



**BMD Constructions** offers civil construction services for major infrastructure projects throughout Australia. Expertise, experience and resources are applied across the industry sectors of transport, water, rail, port, resources and energy. The company engages in projects ranging in value from \$1 million to in excess of \$1 billion as a principal contractor and in joint venture with other major contractor and design partners.



**BMD Industrial**, a division of BMD Constructions, is managed by a group of highly experienced industry executives who assemble professional project teams to deliver structural, mechanical, piping and electrical solutions for a diverse range of clients and industries.



**BMD Urban** is a specialist civil and building contractor to the urban development industry. The company draws on significant industry experience and utilises management systems, delivery methodologies and a relationship based approach that is specifically tailored to the needs of this industry. Integrated services can be offered in partnership with Empower Engineers & Project Managers, JMac Constructions and Urbex to achieve seamless and cost effective project delivery.



**Empower Engineers & Project Managers (Empower)** provides superior civil, structural and geotechnical engineering design and project management services. Empower's experience includes residential, commercial and industrial developments, infrastructure, resource and energy projects across metropolitan, regional and remote areas. Key services include planning and feasibility studies, road infrastructure design, flood studies, land development and services design, water quality and stormwater management, structural engineering and shoring, and foundation design.



**JMac Constructions (JMac)** specialises in all aspects of landscape construction including residential, commercial, industrial, public infrastructure, environmental rehabilitation and long term care and maintenance. From street scapes, boardwalks, public structures, stone entry statements, playgrounds and parklands, JMac has the ability to successfully construct and create unique landscapes of all shapes and forms.



**Urbex** is an innovator in residential and commercial development, undertaking wholly owned projects and joint ventures in developments of varying scale and size. Harnessing leading talent in project structuring, planning, management, delivery and marketing, Urbex delivers excellence in the creation of new communities to meet the lifestyle needs of Australians today and into the future.

WE SEE OUR STRENGTHS IN THE QUALITY  
OF OUR PEOPLE AND OUR GENUINE  
RELATIONSHIPS WITH CLIENTS, PARTNERS  
AND COMMUNITIES.

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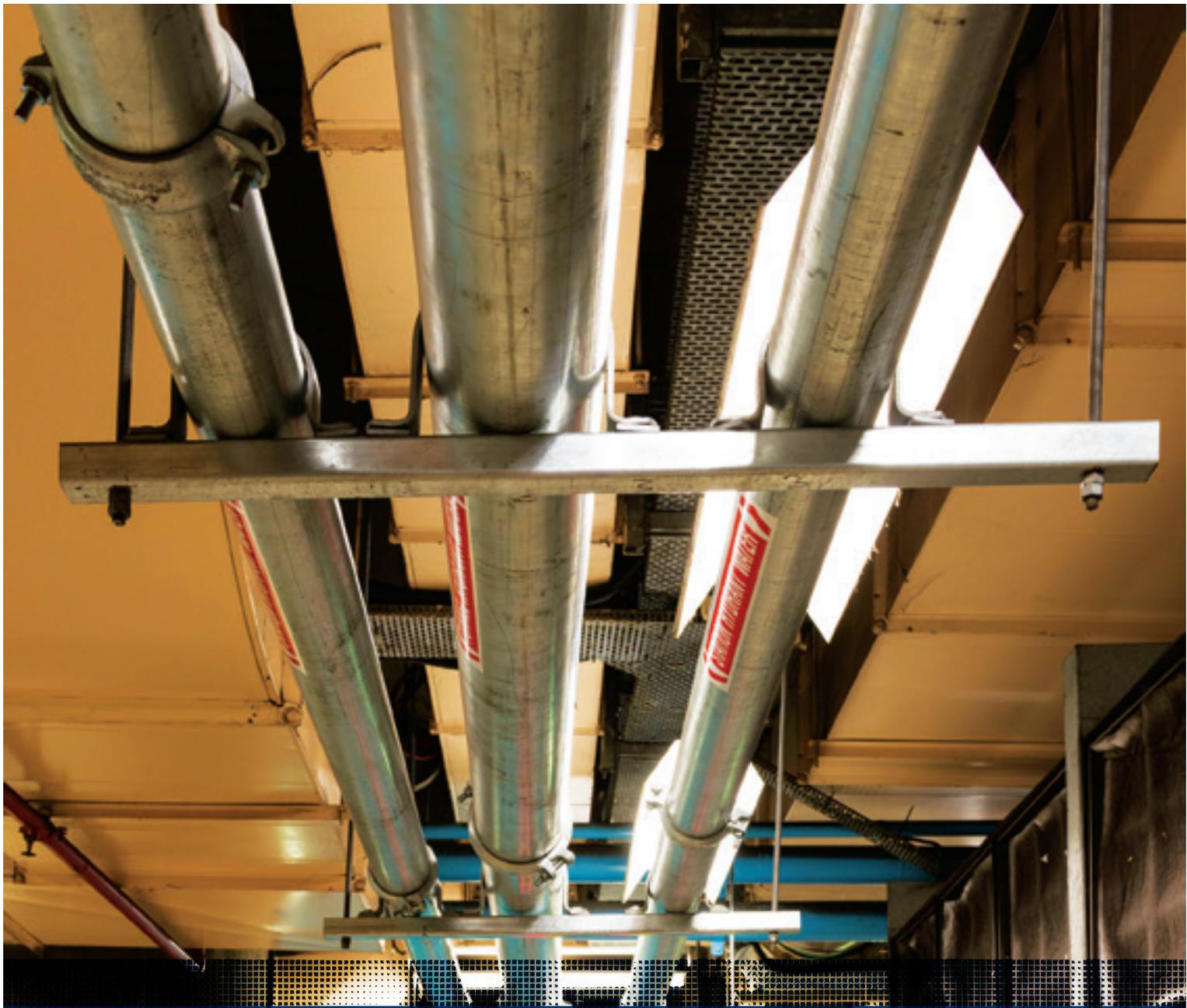
WE SEE OUR SUCCESS LINKED TO OUR  
ABILITY TO DELIVER CERTAINTY THROUGH  
CONSISTENT PERFORMANCE AND  
COLLABORATION.

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WE SEE OUR FUTURE SHAPED BY ALL THAT  
HAS MADE US SUCCESSFUL IN THE PAST.

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**BMD**  
industrial

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