

barkman™

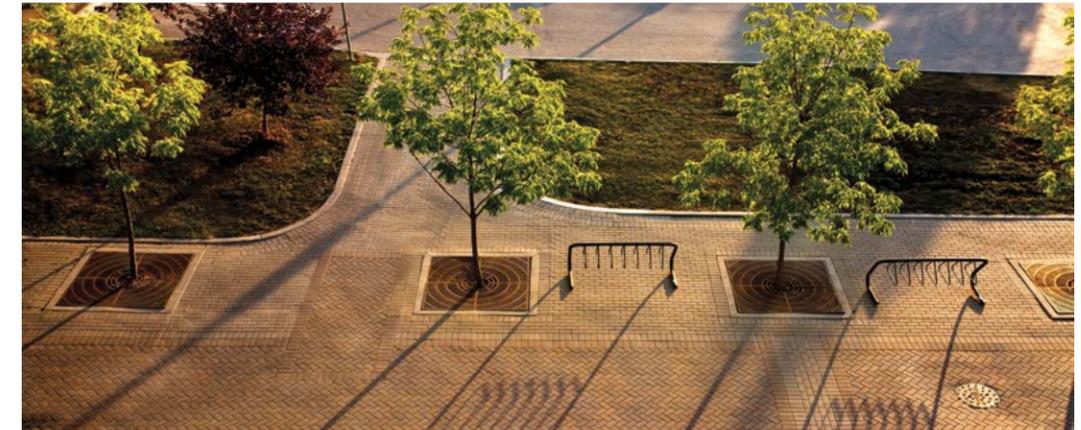
Integrated Municipal Solutions

Issue Two



We understand municipal challenges, we solve them daily.

At Barkman we understand how difficult municipal and civic planning really is. The stakes are high as the work you do is prominent in the public eye and is held to the highest of standards. On top of this, the variety of projects you work on and products you need are endlessly diverse, making it difficult to find all that you are looking for.



Barkman is the perfect fit for your municipality, offering an incredibly diverse range of high-quality products highly suitable for applications ranging from functional infrastructure and safety to beautiful park furnishings and walkways. Our quality products meet

and even exceed ASTM/CSA standards and come with a lifetime warranty against manufacturing defects. We want to help make your municipality beautiful, functional and safe for everyone. Call us today and let's start a partnership that moves your municipality forward.



Commercial Walls

Our recently-expanded wall offerings provide a greater selection of options for any wall application.

For a high-functioning and classic-looking retaining wall, Barkman offers a number of products including Keystone Compac III, DuraHold, DuraHold 2 and Magnumstone. These products offer flexible yet strong retaining wall systems for any wall size. Keystone Compac III is a favored wall system for its versatility, and its proven performance with its Keystone pin connection system. For larger and more demanding projects, DuraHold, DuraHold 2 and Magnumstone provide excellent performance for both gravity and geogrid-reinforced walls.

If a clean and modern look is what you are aiming for, Architextures is the wall of choice. With crisp lines and a contemporary color palette, Architextures is versatile, stylish and functional. Because of the solid block design, this wall system also allows for railings for ramps and stairs to be added.

For a natural and rustic look, Barkman's Rosetta line provides the ideal solution. Designed to look like large-cut natural stone, Belvedere, Kodah, Outcropping and Dimensional Wall are perfect for parks and other natural settings.



Site Furnishing Planters and Waste Containers

Barkman's Site Furnishings add beauty and function to any municipal project, with planters providing an excellent way to bring nature into the heart of the municipality.

These are made out of wetcast concrete and have their own unique color palettes, shapes and sizes. Barkman Planters are also useful in both indoor and outdoor applications allowing for uniformity throughout a municipal project.

The key advantage of Barkman Planters is the self watering inserts which saves maintenance costs for any municipality. These inserts provide plants with moisture whenever needed, by wicking them up to filter columns, providing the main source of water for the plants.

The add-on system is available in two squares and two round sizes.

Barkman Waste Containers are available to help municipalities manage garbage and litter. Barkman has three styles of Waste Containers as well as a recycling container. For basic needs, the Classic Round and Classic Square containers are perfect. However, for a cleaner more contemporary look, Barkman offers the Cast Waste Container, which can be purchased as one unit or multiple units combined.





Site Furnishing Benches and Tables

Benches have been a part of cityscape furnishings for years. Concrete benches offer superior durability, virtually no maintenance, and a more permanent option that withstands any type of climate.

For plazas and parks, these are perfect spots to rest and admire the views as well as offering advertising opportunities if the municipality so desires. Added to these are concrete picnic table options that allows for communities to gather in parks for rest, relaxation and eating.

Barkman has offered site furnishing such as tables and benches since the 1970s, utilizing wetcast processes. Choose from our Cast Benches with or without Back, One40Two Benches, Skyline Bench, Cast Patio Table and other wetcast table and bench options.



Pavers and Slabs

Barkman's diverse selection of pavers and slabs meet the pedestrian and vehicular needs of municipal projects:

Both our Broadway and Holland paving stones offer various sizes to match the aesthetic look you envisioned and each one comes in 2 thicknesses, offering flexibility in design as they allow for seamless transitions between pedestrian and vehicular zones. Holland comes in 60mm and 80mm thicknesses and Broadway comes in 65mm and 100mm thicknesses.

If the classic look is what you desire, Barkman's Roman, Verano, Boardwalk, and Cobble pavers provide durable pedestrian options for sidewalks and parks.

Barkman also has a full wood-like concrete family of products that includes Arborwood and Bridgewood. These are perfect for natural applications and provide a contemporary rustic aesthetic that is perfect for parks, walkways and paths.

Barkman also provides permeable paving options to help aid in municipal water management. Conventional paved spaces prevent the earth from naturally absorbing stormwater quickly. They can create areas prone to flooding and can also cause pollutants to flow into rivers and ponds, decreasing their water quality. Permeable pavers allow water to flow more easily through the pavers for better water management.

Barkman pavers and slabs come in a wide palette of colors which can be chosen to suit any municipal project. Pick one or many colors from our grey, earth-tone and premium color palettes to create a unique, yet cohesive look for each project you complete.



Pocket Parks and Parklets

Communities like yours see the opportunity to have pocket parks as a worthy addition to your city or town. This is also one of the easiest to implement depending on the available land or space.

It can be an urban regeneration initiative which add a distinct character to the municipal landscape, helping your city or town provide greenery, a space to honor distinguished residents, having a historical marker or art project, a place to sit outdoors or in certain cases, a children's playground for residents. Maintaining parks like this also has a positive effect on

neighborhood property values and giving wildlife, such as birds, a foothold in the urban landscape.

Alternatively, parklets can be an option to provide more space for people using the streets, enabling them to stop and rest for awhile, taking in the activities the street has to offers. Similar to pocket

parks, it can provide greenery, art or some other visual amenity which helps add character to your city or town.

In both of these park options, Barkman can provide a wide variety of options using a combination of various hardscapes and site furnishing products.

Popular pocket park and parklet arrangements include:

1.

Gazebo
Centerpiece
Park



2.

Art
Installations

3.

Cast Parks



4.

Patio Park
and Garden
Wall

Bike Curbs and Specialty Products



Winnipeg Free Press/Phil Hossack

A number of townships and cities have incorporated bike lanes in their urbanization planning as requests from residents have increased over the years. However, the configuration of a bike lane requires a thorough consideration of existing traffic levels and behaviors, adequate safety buffers to protect bicyclists from parked and moving vehicles, and enforcement to prohibit motorized vehicle encroachment and double-parking. Bike Lanes may be distinguished using color, lane markings, signage, and intersection treatments.

The goal of an adjustable bike lane is that the curbs protect cyclists by providing a barrier between the cyclist and the vehicular traffic on the road. If needed, bike curbs can be temporarily and easily removed

from the roadway, if for example a parade was taking place. Adjustable bike lanes are constructed with precast concrete components, which means that if damage does occur to one of the components, they can be easily replaced – even in the winter months where for some cities, traditional cast in place concrete curbs can't effectively be re-constructed/repared.

For basic municipal needs, Barkman offers a wide variety of products. To help manage rain and storm water, Barkman has splash pads and rain drain options. For pedestrian and driver safety, Barkman has concrete barrier curbs that can remain freestanding or be permanently installed in place as well as curbs for parking lots or to create bike lanes.

Bridgewood Walls

Working with actual wood for parks and playgrounds provide lower costs but can be more costly in the long run due to maintenance issues. Construction with natural wood has its disadvantages including vulnerability to water damage, fire, decay and termites. With Barkman's Bridgewood family of products, which are precast concrete that looks like wood, maintenance problems are no longer a concern since they don't warp, rot, splinter or fade. It will never need to be stained or sealed like wood, or crack like stamped concrete.



BEFORE



AFTER

Rosetta Steps



The ideal solution for parks, trails and golf courses, Rosetta Step options give you the rugged attractiveness of natural stone but combines it with the safety and comfort of a uniform rise. Rosetta's Irregular Step line is perfect for free-flowing, natural staircases, while Rosetta's Dimensional Step line is ideal for a more formal, sophisticated settings.

Sidewalk Options

Precast concrete pavers provide durability and aesthetic appeal to any sidewalk project. Pictured here are Broadway pavers that complement existing landscape.



Cast Parks

Barkman's Cast line of site furnishings, consisting of planters, benches and tables, can be integrated in various municipal applications. They can be used for parks, as vehicular barriers or in boulevard installations.



Junction Meeting Area

Junction is Barkman's latest site furnishings system. Each piece is available in three sizes with multiple configurations that can be used separately or with one another to create a complete seating arrangement.





Nutrien Playland Saskatoon

Broadway 100mm plank pavers that connected all the park elements together

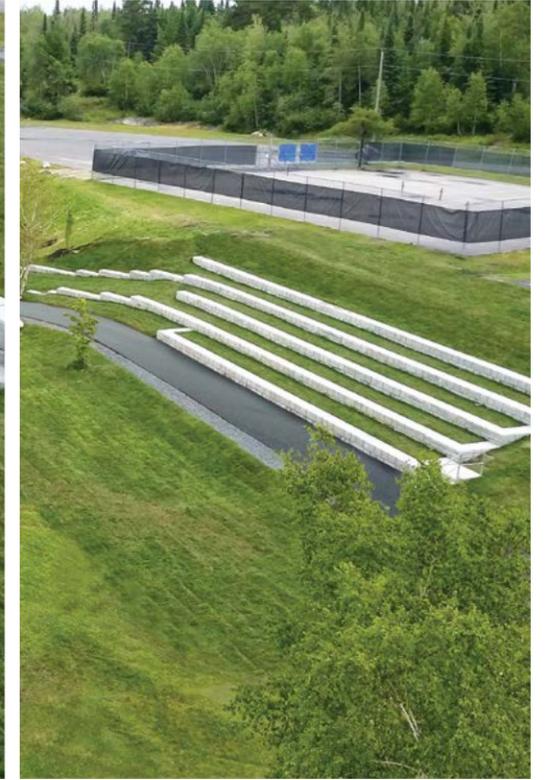
Project: Nutrien Playland at Kinsmen Park
Location: 945 Spadina Crescent East, Saskatoon
Landscape Architect: Oxbow Architecture
Product: Broadway 100mm 3x18 Paver
Colour: Sierra Grey and Antique Brown
Project Owner: City of Saskatoon

Project Background

The City of Saskatoon along with Potash Corp of Saskatchewan and Canpotex drove the initiative to provide a place for children to play in the city with a diversity of experiences including water play, and spaces for youth and young kids. Many other design aspects and site selection were considered, including the rehabilitation of the riverbank on Spadina Crescent, where the park is located. Playland boasts of a train in Canadian Pacific livery which people can ride around the park on, a large carousel and a ferris wheel, which are the obvious attractions. When one looks closer and walks around the park, they find the entire playland park experience – water attractions for children, play structures and what could be considered the steepest children’s slide in the world. For this project, the need is to provide walkways for visitors that will connect the playland features together.

Design Inspiration and Use of Barkman Product

For this park, the Broadway 100mm pavers 3 x 18 worked to connect park attractions for the tourists and local visitors alike. Sierra Grey was the colour chosen for the Broadway Paver and is complemented by a circle made from granite in a color closely resembling Antique Brown. Rectangular concrete seating was integrated across both surfaces. These seats were designed to look like big pieces of the Broadway Paver. When entering the Playland from the car park, the Broadway Pavers are laid out at the front, creating the feeling that the park is actually bigger than it is. The contractor had his work cut out for him due to changing grades to accommodate the required drainage. This became very challenging for the workers during installation, especially on undulating grades with the product being laid lengthwise. The installation turned out extremely well, and now thousands of children run and play in a safe place.



Garrow Park

DuraHold Wall for crowd seating, hillside aesthetics and soil erosion control

Project: Garrow Park
Location: Garrow Road, Kenora, ON
Product: DuraHold
Colour: Natural

Project Background

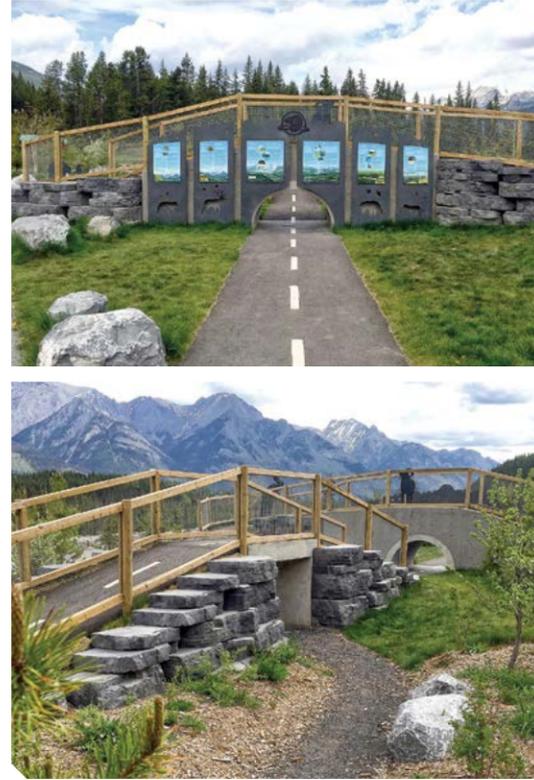
Kenora was host to one of the biggest events of the 2017 Canada Summer Games – the Rowing Event, and the city was tasked with creating a new functional space along the hillside bank of Garrow Park. Key was to provide a retaining wall that will improve the hillside aesthetic, provide crowd seating for the event as well as deal with soil erosion that has plagued the shoreline.

Design Inspiration and Use of Barkman Product

With high speed installation and long maintenance-free life, DuraHold was a solid choice for this project. It is an immense system (0.55m² [6ft²]/unit) that is ideal for a demanding

and complex project like this. This wall has an integrated tongue for maximum block shear strength, 5000 psi compressive strength for superior durability, interlocking groove for an easy install along with a smooth finish and false joints that are ideal for reducing friction in water applications.

Part of the project involved Barkman custom-fitting certain pieces to accommodate the unique design elements involved in allowing the wall to curve along the bank’s natural grade changes. Throughout the whole project, continuous consultation was done with Barkman, the landscape architects and the contractor to ensure that the project was completed in time for the Summer Games rowing event.



Banff National Park

Rosetta Outcropping Wall – complementing the park’s natural surroundings

Project: Banff National Park Rest Area Walkway
Location: Canmore West, Trans Canada Highway, AB
Landscape Architect: 818 Studio Ltd.
Product: Rosetta Outcropping Walls
Colour: Pacific Grey
Project Owner: Banff National Park

Project Background

Located approximately 45 minutes west of Canmore, along the Trans-Canada highway, there is a small rest area where travelers can stop to take in all the sights and sounds that Banff National Park has to offer. This particular area consists of informational posts and paths that wind together providing an immersive walking experience for tourists and locals alike. It is important that any additional elements to this landscape should complement the natural surroundings of the park.

Design Inspiration and Use of Barkman Product

The Rosetta Outcropping wall was selected for this project because it was the most versatile, design flexible, structural and

natural looking product that would blend well with the natural look of Banff National Park. With 12 pieces ranging from 2 to 6 feet (0.6 to 1.8 meters) in length and 6 to 24 inches (152 to 609 millimeters) in height, this wall provided a large, natural stone aesthetic. The walkway pictured showcased the Outcropping walls along with small units that lined the paths and informational posts to create a cohesive look across the whole park. The Pacific Grey colour suits the surroundings well, mimicking the look of natural rock.

This project was completed in the summer 2015, with thousands of travelers and tourists having already visited this rest area and walked across the pathways designed and supported by Rosetta Outcropping.



Centennial Plaza

Colours and size of the Broadway 100mm provided a solid base for a park with unique elements

Project: Centennial Plaza
Location: RM of East St. Paul
Landscape Architect: Architecture 49
Product: Broadway 100mm
Colour: Charcoal and Natural

Project Background:

Centennial Plaza is the Rural Municipality of East St. Paul’s legacy project in recognition of its 100th anniversary. It was designed with functionality in mind, but also incorporates the municipalities’ heritage which includes market gardening, farming and quarries. This project had the involvement of local artists in creating the space that everyone can enjoy. The park incorporated different sizes and textured pavers that reflect farming fields, with gardens that feature native plants as a nod to market gardening, and stone benches that represent the municipality’s quarry past.

Design Inspiration and Use of Barkman product:

Barkman Concrete was approached by Architecture 49 for this project and asked to accomplish two goals – produce product(s) that mimicked real limestone, while ensuring that there was adequate differentiation within the pavement, from a sizing and aesthetic standpoint. Through the development of custom mix designs and manufacturing processes, Barkman was able to accomplish goal number one. Differentiation within the pavement was achieved through implementing several different sizes within Barkman’s Broadway 100mm line within the design. The ability of Barkman’s Hess plant to produce both Face Mix and Through Mix products which differ in surface finish, made certain that the design intent of Architecture 49 was fully satisfied.



Town of High River

Showcasing the benefits of using
Broadway 65mm and 100mm pavers for
pedestrian and vehicular applications

Project: High River Downtown Area
Redevelopment Plan
Location: High River, AB
Landscape Architect: O2 Planning + Design
Product: Broadway 100mm
Colour: Charcoal and Natural

Project Background:

In the aftermath of the 2013 floods, damage to infrastructure required a complete replacement of utilities, resulting in significant excavation of existing streets. Despite the unprecedented destruction, the fortitude of the community remained. Long-term solutions were needed to ensure that economic and cultural vitality of the downtown core was restored and improved.

The immediate need to respond to the flood's aftermath laid the groundwork for the development of long-term solutions. Utilities downtown required complete replacement, resulting in significant excavation of the existing streetscape. In February 2014, the Town of High River retained the services of O2 Planning + Design to guide the Downtown Area Redevelopment Plan (ARP). Working within compressed timelines, in an emotionally-charged environment, O2's multidisciplinary team employed big ideas, bold leadership and extensive community involvement to redefine the downtown area.

Design Inspiration and Use of Barkman Product:

The new streetscape design successfully cultivates an improved visitor experience and a positive environment for local business. Economic redevelopment is supported by wide sidewalks using Broadway 100mm pavers in Charcoal and Natural colours, that allow spill-out activities from businesses into the street. These pavers also provided vehicular calming measures, which are implemented throughout the core as well, reducing traffic speeds and increasing pedestrian safety. 4th Avenue was redesigned as a woonerf, where pedestrians and vehicles share the road. It also allows for the street to be closed off for pedestrian-only events such as farmers' markets and special events. Carefully selected trees have been planted and will grow to line the streets, providing a much needed element of biophilic greenery to the downtown area.

Parts of this case study were written by:
O2 Planning + Design



North Battleford

Holland pavers help in the downtown
core rejuvenation by creating a
seamless transition to the downtown zones

Project: Downtown Core Rejuvenation
Location: City of North Battleford, Saskatchewan
Landscape Architect: Crosby Hanna and Associates
Product: Holland 60mm and 80mm
Colour: Charcoal and Sierra Grey
Project Owner: City of North Battleford

Project Background:

The City of North Battleford in conjunction with Crosby Hanna and Associates completed a Downtown Revitalization Action Plan to revitalize North Battleford's Downtown. Input from the public, community stakeholders, North Battleford Business Improvement District and the City of North Battleford Administration and Council shaped the goals of this plan. The purpose of this plan was to provide the City with a clear vision, objectives and strategy to effectively and achievably address the revitalization of the downtown core. This plan is to be used to guide development for the next twenty-five years.

Design Inspiration and Use of Barkman Product:

Within this plan, landscape architects from Crosby Hanna highlighted and recommended key areas of the downtown's streetscape for revitalization and preservation. One of the main design elements when looking at revitalization of the streetscape downtown are

sidewalks. Sidewalks leave an impression on pedestrians as they travel. Highlighting this experience for pedestrians was a key focus in the plan and was achieved by creating paver accented cross walks, paver accented sidewalks, paver accented utility strips and increased walkway bulbs with paver strips. Pavers were chosen as the infrastructure of choice due to their durability, visual appeal, competitive cost, and ability to manipulate for visual aesthetics and repair.

Barkman products, namely 60mm Holland, 60m Holland Square and 80mm Holland pavers were provided to the City through construction tenders as they met the high standard specifications, the City required.

Specific designs of the product layout was done in conjunction with recommendations from the Downtown Revitalization Action Plan and the internal Planning and Development Department at the City.

Author: Ryan Mackrell MCIP, RPP, North Battleford City Planner



Municipal Waterworks

Colonial Pavers – Permeable paving systems reduces storm water runoff and flooding

Project: Calgary Water Centre Parking
Location: Calgary, AB
Landscape Architect: Manasc Isaac and Sturgess Architecture
Product: Colonial Paver
Colour: Natural
Project Owner: City of Calgary

Project Background

The Water Centre is a civic operational and administrative centre located on an industrial site. The 16,000 square metre building brings together two City departments: Waterworks and Wastewater. The project’s industrial/residential context demanded a dynamic yet sensitive response to the site, appealing to both the industrial and residential context. Besting the City’s mandate of LEED® Silver minimum for civic projects, this LEED® Gold certified building cuts energy and water consumption while offering a beautiful and dynamic working environment for its occupants.

Design Inspiration and Use of Barkman Product

Barkman’s Permeable Paving System reduces storm water runoff and flooding, and protects local water quality. It does this by permitting water to pass through the specially designed interlocking paver system into the ground, rather than pooling on the surface or running off into storm sewers. Before release into the ground, the water is filtered through the paving system’s crushed aggregate base, trapping most contaminants which can pollute local water systems. The Colonial paver used for this project complements the building’s structure, providing the functions as specified and allowing the project to achieve LEED® credits as required.

RIGOROUS PRODUCT TESTING

Comprehensive testing in our in-house laboratory enables us to meet or even exceed ASTM/CSA required standards. This includes freeze-thaw testing (stress/weather resistant tests) and solar reflectance index, among other tests. These data points and corresponding results also allow us to react and respond to any customer inquiry concerning our products.

RESEARCH AND DEVELOPMENT

Our research and development team is committed to ensuring that all our products have been developed and engineered to provide the ultimate in durability, even in the harshest of climatic conditions. Whether it be creating a custom mix design to meet the needs of our customers or ensuring that we are up to date with all our manufacturing processes, our R&D team plays a vital role in all aspects of support to both Barkman’s sales and operations teams.

INDUSTRY EXPERIENCE

Since 1948, Barkman has manufactured precast concrete products for residential and commercial applications. Over the years, we have provided our customers with a thorough and diverse understanding of our products, their applications and the industry as a whole. From product education to technical expertise, our team is ready and willing to assist you in all matters related to your specific project.



Why work with us? We make a solid case.

SUPERIOR PRODUCTION CAPABILITIES

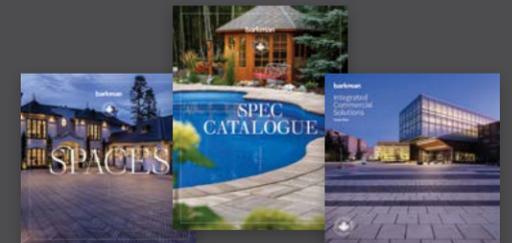
Operating since 2015, our Hess plant located at our head office in Steinbach, Manitoba, is a state-of-the-art manufacturing facility that features specialized, modern computer-driven equipment for optimum production capabilities. It is one of the most advanced precast concrete production facilities in the world. Our state-of-the-art dry-cast manufacturing plant allows us to stay focused and committed to producing the highest quality precast concrete pavers, slabs and retaining wall blocks.

COMMITMENT TO INNOVATIONS

Barkman Concrete considers innovation as part of the fabric of our business, releasing several new products yearly. We understand that innovation is key in enabling us to serve you better. With a Product and Development team that focuses on customer feedback, along with studying the latest trends, we work hard to introduce products that are tailored to meet the needs and expectations of our municipal clientele.

MARKETING

With an “outside in” perspective, our marketing department is driven to promote the Barkman brand across different channels, aiming to help our municipal-focused customers to find the right products they need for their projects.

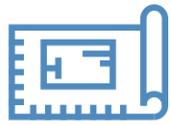


Project Delivery Support

At Barkman Concrete we understand that all phases of a project play a vital role in the overall success of your project. From design development to post construction, and everything in between, we are ready and willing to support you in all facets. To learn more about how your local Barkman Concrete Representative can assist you with all phases of your project, please feel free to contact them.



1 Concept Design/
Design Development



2 Construction
Documentation



3 Tendering/
Procurement



4 Construction



5 Post Construction/
Occupancy

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