WASTEWATER TREATMENT AND STORAGE TANKS
DN Tanks has a reputation for surpassing the expectations of our customers, both nationally and internationally.
DN Tanks understands the challenges involved in providing cost-efficient, durable tanks that can withstand rigorous wastewater service requirements.

With a combined experience of over 130 years, DN Tanks is the leader in liquid containment tanks. Our quality of construction and ability to adapt special components for each facility's unique needs are unparalleled. Some examples include:

- DN Tanks’ prestressed concrete tanks can be constructed as open-top, with freestanding concrete domes or flat-slab roofs depending on process demands or aesthetic preference.
- A DN Tanks liquid storage tank can be used for upstream or on-site equalization storage, primary and secondary clarification, aeration, sludge thickening, biosolids storage, aerobic and anaerobic digestion, and disinfection as well as various other treatment and storage types.
- Proven technology and construction methods accommodate various tank diameters and heights.
- A DN Tanks prestressed concrete wastewater tank satisfies the most complex facility demands while complying with national codes and standards, including AWWA D110 and ACI 350.
- Circular tanks provide maximum treatment efficiency and eliminate corner and dead zones.
Maximize your facility’s efficiency through longevity and minimal maintenance...

Aerobic and Anaerobic Digesters
A DN Tanks prestressed concrete tank can be custom designed to complement the digester technology and operate relatively maintenance-free for decades. Some of the options include:

- Temperature stabilization and pH resistance within industry ranges
- Multiple penetrations for various sizes of apparatuses
- Mixing systems
- Vacuum and pressure equipment
- Multiple roof-system equipment options

Primary and Secondary Clarifiers
Circular prestressed concrete tanks offer optimal clarifier performance within a smaller site footprint. They can also be customized with a number of features, such as:

- Covered or open-top roof options
- Collection equipment, catwalks, bridges, and center haunches
- Flat, eccentric, or concentric floor systems
- Piping for process chemical applications
- Attached inlet and outlet structures
- Radial or circular launders
without sacrificing accessibility or specialty equipment needs

**Sludge (Biosolids) Storage**
DN Tanks understands that reliability and efficiency are imperative in the construction and engineering methods for biosolids storage. Options for storage solutions include:
- Covered or open-top roof structures with concrete or aluminum domes
- Sloped floors
- Floor drains of various sizes and configurations
- Air exhaust and odor controls
- Mixing systems

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A concrete-encased overflow pipe in this EQ tank eliminates the need for brackets and hangers. Also shown is a floor trough for easy removal of solids after a storm event.

**Equalization (EQ), SSO, and CSO Tanks**
Prestressed concrete tanks are the optimal type of tank because they can withstand the demanding and fluctuating cycles of flow equalization. They can accommodate:
- Covered or open-top roof configurations
- Various floor slopes
- Flood drains and troughs
- Cleaning equipment
- Fast fills and drains
- Easy cleaning processes

A davit crane can be used for lifting equipment in and out of a tank. Center flush cleaning system in an EQ tank.

An example of specialty equipment that enhances the functionality of the tanks is an aerator. Many wastewater facilities use aerators to keep storm water fresh while being stored in an open-top EQ tank.

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Overflow pipe

(Middle) An exterior stair system attached to the wall of an anaerobic digester.

(Bottom) A lighting fixture attached to the top of an EQ tank wall is another example of the variety of equipment that can be attached to a prestressed concrete tank.
Minimal maintenance means lower operating costs
- DN Tanks’ prestressed concrete tanks are known for their durability and structural robustness so customer satisfaction is high and operating costs are low.

Prestressed concrete resists corrosion and results in more efficient, crack-free, and liquid-tight tanks
- Circular prestressed concrete tanks offer concrete in constant compression wrapped in steel which is in constant tension, thus withstanding hydrostatic, thermal, and seismic loadings resulting in superior performance and longevity.

Concrete tanks offer maximum site flexibility
- More versatile than other tank construction materials, a DN Tanks prestressed concrete tank can be partially or fully buried to satisfy system hydraulics and site requirements.

Prestressed concrete is durable
- Prestressed concrete tanks are not affected by harsh conditions including extreme fluctuations in temperatures. DN Tanks’ prestressed concrete tanks often don’t require internal coatings, even when used in an aggressive wastewater environment.

Numerous architectural options
- Prestressed concrete tanks can be architecturally enhanced to create an aesthetically pleasing appearance that blends into the surroundings of the facility and/or community.
Contact DN Tanks Before You Start Design

No other company supports its clients with design and pre-bid services like DN Tanks. When clients choose a prestressed concrete tank built by DN Tanks, they can have complete confidence in our vast experience in estimating, engineering, project development services, quality assurance and safety compliance. In fact, DN Tanks is often consulted long before the bidding process begins, providing key engineering, design, construction, and logistical input, such as:

- Foundation and geotechnical assessments with recommended options
- Evaluation of site conditions and space utilization
- Technical evaluations of project functionality, including seismic and roof design evaluations
- Recommendations on baffling, mixing systems and various appurtenances
- Drawings and specifications in conformance with codes and standards
- Partial or total tank related project estimates
- Bid documents review
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For additional information or to contact other regional offices, visit www.dntanks.com