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## VERTICAL HDPE STRUCTURES



Vertical HDPE structure ready for shipment.



### SELF-CONTAINED HDPE STRUCTURES CAPABLE OF INCORPORATING PUMPS, VALVES, WET WELLS AND VARIOUS EQUIPMENT ASSEMBLIES.

Watertronics™ HDPE (High Density Polyethylene) structures offer a single-sourced turnkey prefabricated solution. With a design life of 100+ years, HDPE structures are lightweight, durable and resist chemical damage and corrosion. The structures are flexible and impact-resistant, making them well suited for dynamic soils and areas prone to seismic activities. Vertical or horizontal structures are available to address a multitude of solutions for underground applications and can be designed to comply with H-20 vehicle traffic live load rating criteria. Watertronics HDPE turnkey packages free up usable space, eliminate unsightly above ground equipment, and reduce noise in public areas.

## ADVANTAGES OF HDPE TURNKEY STRUCTURES

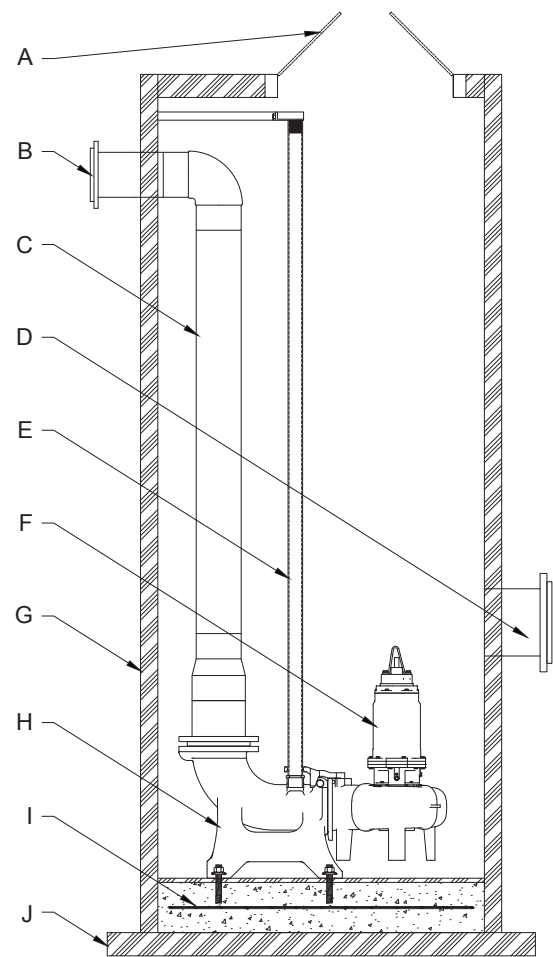
- Pre-assembled for easy installation
- 100+ year design life
- Lightweight construction
- Durable and flexible
- Inert to corrosive elements such as salt water, pH, sewage and hydrogen sulfide
- Biological growth inhibiting material
- Integral double wall construction
- Exceptional resistance to subzero temperatures
- Structural cylinder profiles available up to 11' diameter and 40' depths

## OPTIONAL UPGRADES

- OSHA-approved ladders
- Custom FRP flooring
- OSHA-compliant ventilation risers
- Butt-fused HDPE manifolds
- Internal lighting
- Aluminum access hatches with fall protection
- Leak detection sensors
- Civil engineering stamp available

## DISADVANTAGES OF STEEL AND/OR CONCRETE

- Increased on-site labor for assembly
- 30-50 year average design life
- Heavier structures—may require more trucks to deliver or larger cranes to install
- Higher damage probability due to seismic events
- Coating failures
- Low chemical resistance
- Rust and material degradation and concrete spalling
- Prone to leaks
- Environmental degradation



**TYPICAL SUBMERSIBLE LIFT STATION**

- A UPPER ACCESS HATCH FOR PUMP REMOVAL
- B FLANGED PUMP DISCHARGE CONNECTION
- C HDPE DISCHARGE MANIFOLDING
- D FLANGED WELL INTAKE CONNECTION
- E STAINLESS STEEL SLIDE RAILS
- F REMOVABLE SUBMERSIBLE PUMP UNIT
- G FULL HDPE WET WELL ASSEMBLY
- H PUMP QUICK DISCONNECT BASE (ANCHORED INTO FOUNDATION)
- I HDPE ENCAPSULATED CONCRETE PUMP FOUNDATION WITH REBAR REINFORCEMENT
- J SQUARE HDPE BASE WITH ANTI-BUOYANCY PROJECTION



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