

CASE STUDY

Walmart® Traffic Flow Remains Normal During StormTech® Install Garrett, IN

OWNER

Walmart, Inc., Bentonville, AR

ENGINEER

Bohler, Pittsburgh, PA

CONTRACTOR

Miller Bros. Const., Archbold, OH

INSTALLATION DATE

August 2025

PRODUCTS

2,500 StormTech MC-3500 Chambers
2,880' (878 m) of 8" (200 mm) N-12® Dual Wall
3,200' (975 m) of 18" (450 mm) N-12 Dual Wall
1,500' (457 m) of 24" (600 mm) N-12 Dual Wall
2,080' (634 m) of 42" (1,050 mm) N-12 Dual Wall

CHALLENGE

In order to better serve Northeast Indiana, Walmart expanded its distribution center in Garrett, IN. The expansion required a new parking area and to maximize the site's footprint, underground stormwater storage was required.

SOLUTION

Bohler, the project's engineer, specified StormTech chambers for the stormwater storage system based on prior experience, cost efficiency and performance. After evaluating the site requirements, it was determined that 2,500 StormTech MC-3500 chambers would provide the necessary storage capacity and nearly 10,000' (3,050 m) of N-12 Dual Wall pipe would convey the stormwater. Advanced Drainage Systems (ADS) products provided the stormwater system solutions.

Because the distribution center remained fully operational throughout construction, maintaining uninterrupted semi-truck traffic was critical. StormTech chambers were delivered on an on-time basis, with shipments of approximately 500-700 chambers at a time. Their stackable design minimized on-site staging and laydown area so distribution truck traffic could run as usual.



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The StormTech system was installed beneath the parking lot, allowing stormwater to infiltrate naturally into the surrounding soil.

To convey runoff to the system, 9,660' (2,944 m) of N-12 Dual Wall Pipe was installed in diameters ranging from 8"-42" (200-1,050 mm). The high-density polyethylene pipe was also delivered as needed and its nestable design further reduced the site's storage footprint while simplifying logistics.

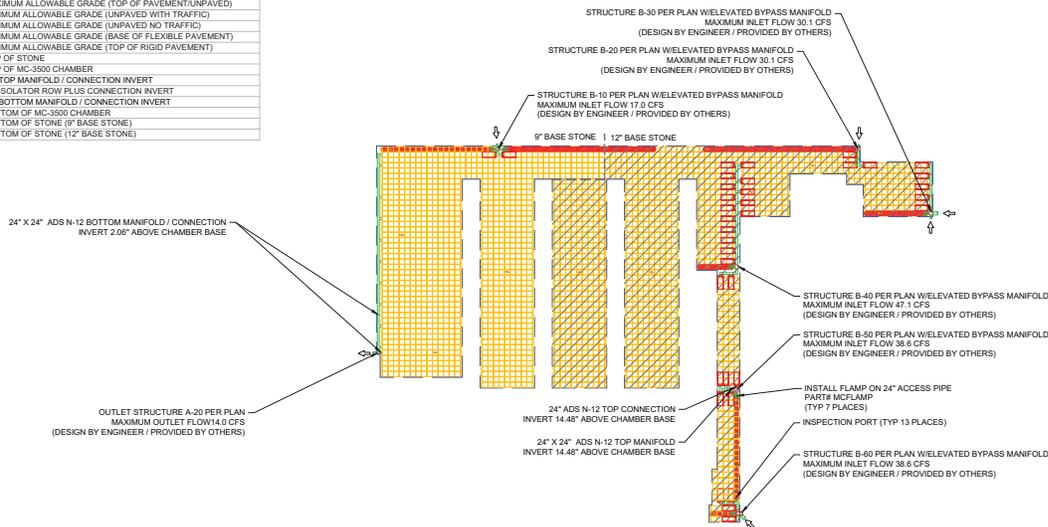
PRODUCT DESCRIPTIONS

StormTech chambers are designed to save valuable land, reduce flooding risks and protect water resources. The chambers provide a durable structural system and are designed in accordance with AASHTO LRFD Bridge Design specification for the HS-20 live loads. StormTech chambers are available in a variety of sizes to meet any project need and are injection molded for uniform wall thickness.

N-12 Dual Wall Pipe, made using high-density polyethylene (HDPE), has a corrugated exterior and smooth interior wall that provide exceptional strength and hydraulics. The inert HDPE material is resistant to the effects of chemicals, abrasions and hot soils. N-12 is available in 4"-60" (100-1,500 mm) diameters and in 20' (6 m) lengths. The inline bell design allows for pipe ends to be pushed together for easy installation. N-12 ASTM pipe meets the requirements of ASTM F2648, while the fittings conform to ASTM F2306.

PROPOSED LAYOUT	
2,502	STORMTECH MC-3500 CHAMBERS
424	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
471,944	INSTALLED SYSTEM VOLUME (CF) ABOVE ELEV. 872.54 (PERIMETER STONE INCLUDED)
137,767	SYSTEM AREA (ft ²)
4,670	SYSTEM PERIMETER (ft)
PROPOSED ELEVATIONS	
885.04	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
879.04	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
878.54	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
878.54	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
878.54	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
878.04	TOP OF STONE
877.04	TOP OF MC-3500 CHAMBER
874.50	24" TOP MANIFOLD / CONNECTION INVERT
873.46	24" ISOLATOR ROW PLUS CONNECTION INVERT
873.46	24" BOTTOM MANIFOLD / CONNECTION INVERT
873.29	BOTTOM OF MC-3500 CHAMBER
872.54	BOTTOM OF STONE (9" BASE STONE)
872.29	BOTTOM OF STONE (12" BASE STONE)

NOTES
 • THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.



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