



Pre-Design Cost Budget = \$45,000

Please refer to AP Croll Estimate



Jersey Street Ocean Block Infiltration Basins- Option #2

From: A.P. Croll and Son, Inc.
 P.O. Box 748
 Georgetown, DE 19947
 Phone: 302-856-6177
 Fax: 302-856-3482

Project: JERSEY STREET STORM OCEAN
Description: Install Infiltration Basins.

To: Dewey Beach Town Hall
 Bill Zopler
 105 Rodney Ave
 Dewey Beach, DE 19971

ITEM	DESCRIPTION	BID QTY	U/M	AMOUNT
Jersey Street Ocean Block (DeIDOT)				
08320	Traffic Control	1.000	LS	
01175	Equipment Mobilization	1.000	EA	
01115	Test Pit Laterals/Services	1.000	LS	
03410	Infiltration Catch Basin	2.000	EA	
10210	Restoration and Grading	1.000	LS	
Jersey Street Ocean Block (DeIDOT)				
Section Total:				\$39,911.00
TOTAL BID:				\$39,911.00

Provide traffic Control.

Test pit laterals and services to see if RCP run is feasible.(Included in estimate).

If Test Pit results determine that there will be elevation conflicts then infiltration basins could be utilized:

Install 2 ea. Catch Basins in front of Houses 15 & 16 with 20 feet of perforated 8" PVC pipe ran out either side and encased in 57 stone or washed gravel. Place filter fabric on sides and top of stone to prevent soil from becoming contaminated. Grade shoulders for positive drainage towards basins - either direction for 15 to 20 feet to drain area of standing water. Place stone shoulder surface to keep soil from eroding.

This method cannot be guaranteed to work in extreme flooding conditions such as in a nor-easter storm but should drain the average rainfall within 24 hours or less.

There may be a DeIDOT approval process that the Town will have to adhere to in order to construct the storm drains. This method could be completed after the overlay if necessary.

Jersey Street Ocean Block Infiltration Basins- Option #2

From: A.P. Croll and Son, Inc. for Project JERSEY STREET STORM OCEAN BLOCK OPTION #2
To: Dewey Beach Town Hall

This estimate does not include any relocation of existing utilities. This would be done on a T&M basis.

This Proposal is valid for a period not to exceed 30 (thirty) days.

This Proposal is only for the scope of work specifically included in the preceding document.

This Proposal is only for work to be performed or awarded within the next 90 (Ninety) Days.

This Proposal may have pricing for Hot Mix (Asphalt) Paving of which any price given is subject to change with the market price.

This Proposal may be accepted as a contract using the following as a basic agreement.

The Contractor and Accepting Party are to be considered equal entities under this agreement each party agrees to be bound by The Law of the State of Delaware and the Uniform Commercial Code. Any Changes to to this agreement concerning the Scope of Work or Price must be agreed to by both parties in writing.

The Contractor reserves the right before the work begins to unilaterally modify (for clarity) the order and numbering of the items specified within this proposal without modifying the actual scope of work or contract amount.

Any Contract Signed and Accepted by both Parties to this Proposal supersedes the above terms.

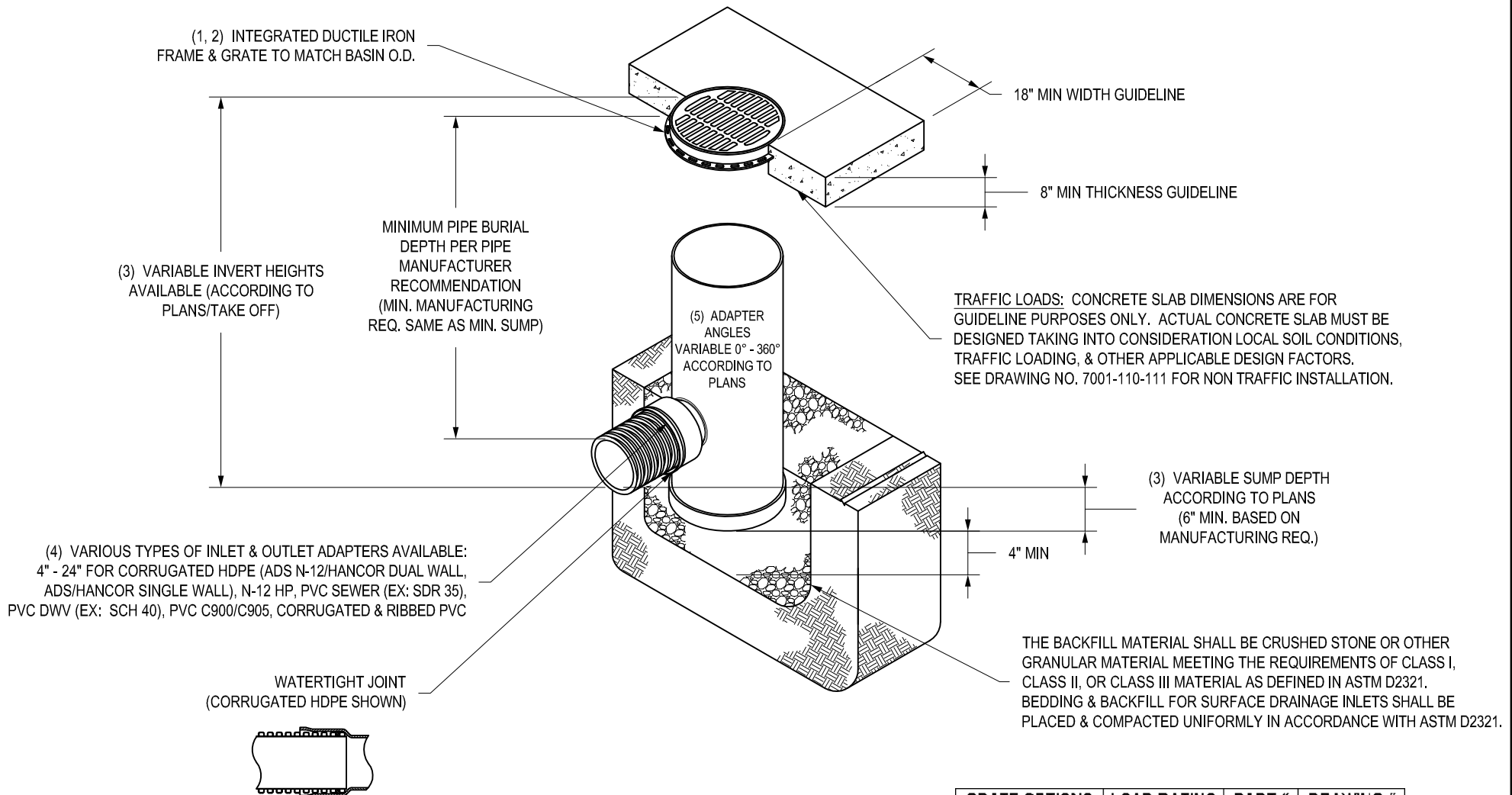
Submitted by: A.P. Croll & Son, Inc.

Date:

Accepted by: Town of Dewey Beach

Date:

NYLOPLAST 24" DRAIN BASIN: 2824AG __X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	2499CGP	7001-110-216
STANDARD	MEETS H-20	2499CGS	7001-110-217
SOLID COVER	MEETS H-20	2499CGC	7001-110-218
DOME	N/A	2499CGD	7001-110-219
DROP IN GRATE	LIGHT DUTY	2401DI	7001-110-075

- GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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DRAWN BY	EBC	MATERIAL
DATE	04-03-06	
REVISED BY	NMH	PROJECT NO./NAME
DATE	03-14-16	
DWG SIZE	A	SCALE 1:40 SHEET 1 OF 1



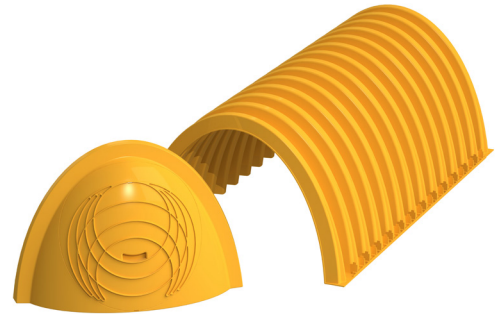
ADS
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TITLE	
24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL	
DWG NO.	7001-110-192 REV E

StormTech® SC-800 Chamber

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots, thus maximizing land usage for private (commercial) and public applications. StormTech chambers can also be used in conjunction with Green Infrastructure, thus enhancing the performance and extending the service life of these practices.



Nominal Chamber Specifications

(not to scale)

Size (L x W x H)
 85.4" x 51" x 33"
 2169 mm x 1295 mm x 838 mm

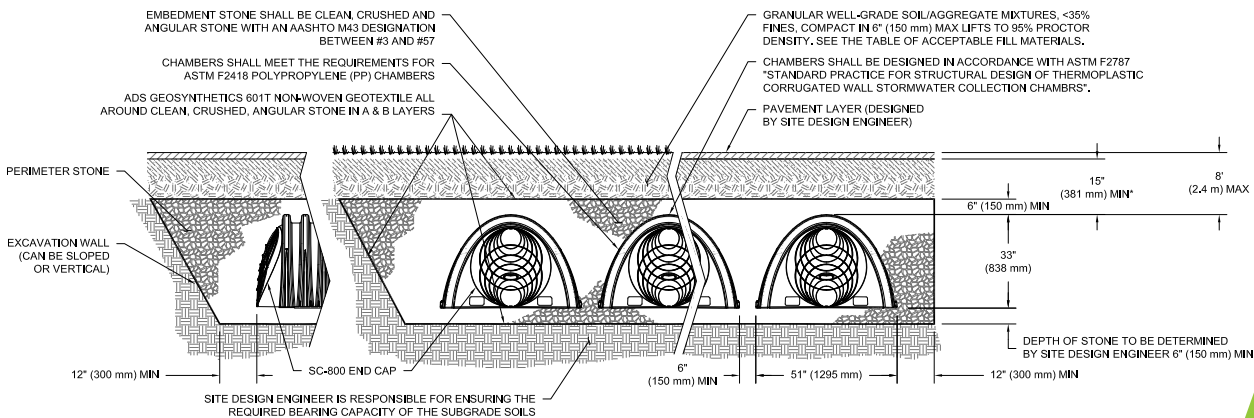
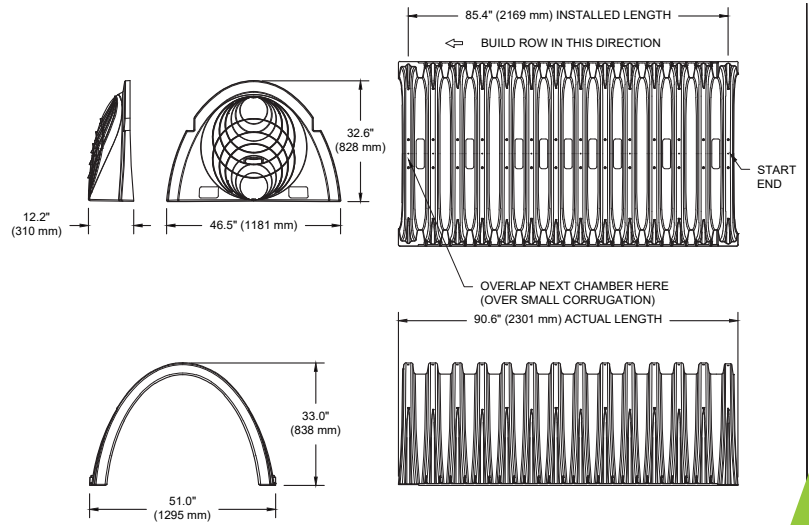
Chamber Storage
 50.6 ft³ (1.43 m³)

Min. Installed Storage*
 81.0 ft³ (2.29 m³)

Weight
 81.8 lbs (37.1 kg)

Shipping
 30 chambers/pallet
 60 end caps/pallet
 12 pallets/truck

*Assumes 6" (150 mm) stone above, below and between chambers and 40% stone porosity.



*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 21" (533 mm).

Aquabox

Aquabox is a modular underground system designed for sustainable stormwater management. The modules are delivered palletized to the project site and assembled in place.

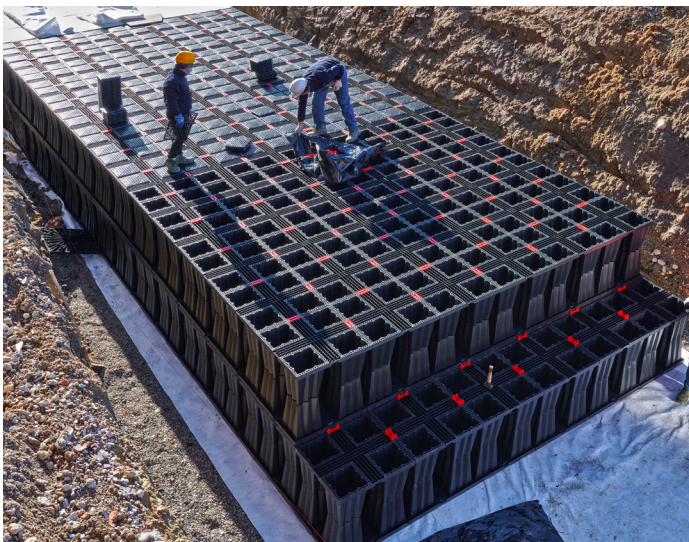
The Aquabox system is designed primarily to be used under parking lots, thus maximizing land usage for private (commercial) and public applications. The Aquabox can also be used in conjunction with Green Infrastructure, thus enhancing the performance and extending the service life of these practices.

Features

- Fast and easy installation
- High load resistance
- Open and flexible system that can be used for both detention and retention (infiltration) applications
- 96% void
- 29.5" x 29.5" x 31.5" (750 x 750 x 800 mm) modular modules that is easy to manage
- 15.24ft³ (0.43 m³) per Aquabox module

Benefits

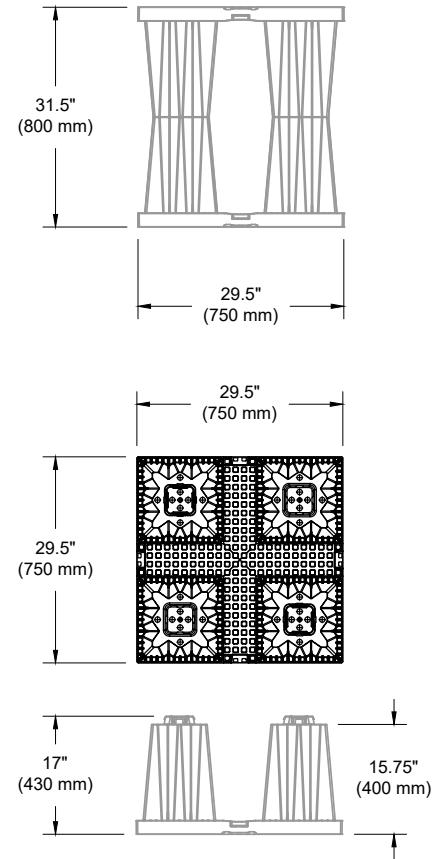
- Internal configuration makes the system easily accessible for inspection, maintenance & cleaning.
- Modules are stackable, allowing 16,000 ft³ (453.1 m³) of installed volume to be transported in a single truckload



Aquabox Specifications

Aquabox is designed for the passage of heavy vehicles, load class HS20. The basin is equipped with access points for inspection and cleaning of the basin.

Dimensions	29.5" x 29.5" x 31.5" (750 x 750 x 800 mm)
Weight	45 lbs (20.4 kg)
Material	Recycled polypropylene with glass additive
Net volume	15.24 ft ³ (0.43 m ³)
Void ratio	96%
Pallet Size	385.8" x 60.0" x 101.6" (9800 x 1520 x 2580 mm)
Number of pieces per pallet	80



Cross Section

