FILL CHART

Material Location	Description	Material Classification			Compaction/Density Requirement (NOTE 3)
FINAL FILL Fill starting from the top of the embedment fill layer. (NOTE 1 and 2)	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans	See Project Geotechnical Report and Site Design Engineer's Plans			Plate Compact or Static Roll up to 8-inch loose lifts to densify fill. Use at least two full passes of the equipment to level the layer. Continue until 24 inches of total fill thickness has been placed above the tank. For AASHTO M145 soils, a minimum of 95% of the Standard Proctor Maximum Dry Density is recommended. After 24 inches of fill is placed, place fill in accordance with the engineer of record's relative compaction requirement or to 95% of the Standard Proctor Maximum Dry Density - whichever is greater.
EMBEDMENT FILL Fill Immediately Surrounding the sides and					Plate Compact or Static Roll up to 8-inch loose lifts to densify
top of tank (NOTE 4)	Sand-Gravel Mixtures or Open-Graded	AASHTO M145 A-1, A-2-4, A-3	or		fill. Use at least two full passes of the equipment to level the
BEDDING FILL	Crushed Aggregate Blends				layer. For AASHTO M145 soils, a minimum of 95% of the
Fill Immediately below the tank					Standard Proctor Maximum Dry Density is recommended.

NOTE 1: This layer can include pavement subbase

Cover Depth as Specified By Site

Design Engineer

(See Cover Chart) 6" Minimum

NOTE 2: If open-graded aggregates are used for embedment fill, fines migration from the final to embedment fill layer may be reduced by installing a layer of 6 oz non-woven geotextile fabric at the final and embedment fill interface.

-SD Side Panel (Part # 314091)

FINAL FILL (See Fill Chart)

-SD Half-Module

(Part #314090)

-BEDDING FILL (See Fill Chart)

-Engineer of Record responsible for checking that subgrade soils meet the bearing and settlement requirements during design and construction

-EMBEDMENT FILL (See Fill Chart)

TYP. for all exterior sides

NOTE 3: See Construction Equipment Table for more information for construction equipment limitations.

NOTE 4: Import or native soils may be used if the soils meet the material classification listed. Fill material should be selected based on classification, groundwater conditions, and tank invert elevation

-Surface Material (Pavement

by Site Design Engineer

Section or Topsoil) as Specified

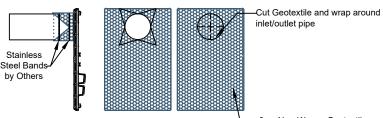
CONSTRUCTION EQUIPMENT CHART

Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs)	Fill Depth over Tank (in)
Plate Compactor	1,500	6
Roller - Static Mode	12,000	18
Low Ground Pressure Tracked Vehicles (NOTE 2)	20,000	14
Roller - Vibratory Mode	12,000	24
Dump Trucks and Pans	NOTE.3	

NOTE 1: Vehicles shall make straight runs only across tank footprint.

NOTE 2: Maximum track pressure 7 psi for tracked vehicles.

NOTE 3: Dump trucks and pans shall not traverse or park over the system during construction. Backfill material may be temporarily unloaded near the excavation. Material shall not be stockpiled near the excavation for longer than 24 hours.



DETAIL A
PIPE WRAP

On the second of the sec

COVER CHART

Live Loading Condition	Cover Thickness (inches)			
Live Loading Condition	Minimum	Maximum		
Non-Trafficked Areas	12	32		
(i.e. Landscaping)	12	32		
Passenger Vehicles Parking Lot				
(i.e. Gross Vehicle Weight	18	32		
<10,000 lbs)				
Passenger Vehicle Parking Lot				
with one weekly AASHTO HS-	24	32		
20 vehicle				
Heavy AASHTO HS-20 Traffic	32	32		

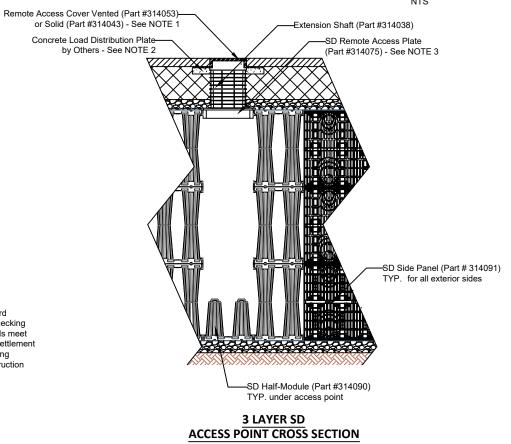
NOTE 1: Minimum Cover Thickness in non-trafficked areas is based on landscape surface with a 40 degree load distribution. In trafficked areas, Minimum Cover Thicknesses are based on an asphalt-surfaced pavement with a 30 degree load distribution.

NOTE 2: Calculations assume backfill with a minimum 32-degree angle of internal friction and a maximum bulk density of 120 lbs per cubic foot, and a seasonal groundwater elevation at least 2 feet below

SIDE PANEL PIPE DIAMETER CHART

Inlet/Outlet Pipe Diameter				
Minimum	Maximum			
4 inches	18 inches			

NOTE 1: Cut inlet / outlet pipe hole prior to side panel installation. NOTE 2: Contact ACO for guidance for inlet / outlet pipes larger than 18-inch diameter



NOTE 1: Ventilation may be crucial to reducing the pressure build up within the system. If solid access covers are used, alternative methods of ventilation are recommended.

NOTE 2: Concrete Load Plate not required for unpaved applications. Consult Engineer of Record for requirements NOTE 3: The Remote Access Plate is approximately the size of half of a half-module. The half-module at the top of the tank must be cut in half to accommodate the Remote Access Plate

See Detail A Pipe Wrap

Cut template hole based on pipe diameter and slip-fit install pipe. See Pipe Diameter Chart.

6 oz Non-Woven Geotextile (outer) around entire tank by Others

SIDE VIEW
NITS

SECTION A-A
NITS

3 LAYER SD PIPE INSTALLATION NTS

3 LAYER SD INFILTRATION CROSS SECTION

NOTE 1: The minimum width of sidewall backfill is 12" or large enough to accommodate selected compaction equipment, whichever is greater.

-6 oz Non-Woven

Geotextile (outer) around

entire tank by Others

DRAWN BY CHECKED BY A Frye J Jonke DATE REV. 04/26/2024 0

STORMBRIXX STANDARD DETAILS SD SYSTEM - 3 LAYER - INFILTRATION



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