FILL CHART

Material Location	Description	Material Classification		lassification	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		nnical Report and Site ineer'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 top of tank (NOTE 4) BEDDING FILL Fill Immediately below the tank	Sand-Gravel Mixtures or Open-Graded Crushed Aggregate Blends	AASHTO M145 A-1, A-2-4, A-3	or	AASHTO M43	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. For AASHTO M145 soils, a minimum of 95% of the Standard Proctor Maximum Dry Density is recommended.
(NOTE 4)					3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1

NOTE 1: This layer can include pavement subbase

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.

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

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.

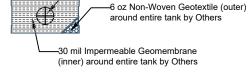




DETAIL A

PIPE WRAP

NTS



-Cut Geotextile/ Geomembrane

and wrap around inlet/outlet pipe

Live Loading Condition	Cover Thickness (inches)		
Live Loading Condition	Minimum	Maximum	
Non-Trafficked Areas (i.e.	12	78	
Landscaping)	12	/*	
Passenger Vehicles Parking Lot	18	78	
(i.e. Gross Vehicle Weight			
<10,000 lbs)			
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-20	24	78	
vehicle			
Frequent AASHTO HS-20 Traffic	26	78	

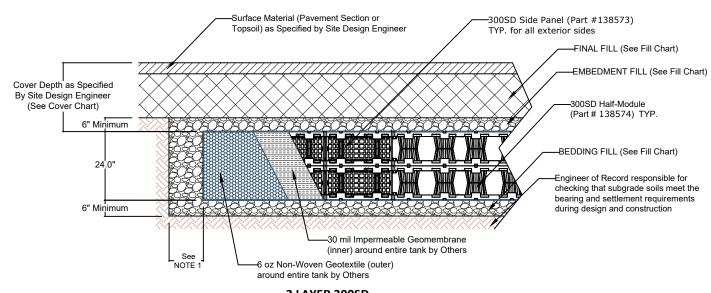
COVER CHART

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 density of 120 lbs per cubic foot, and a seasonal groundwater elevation at least 2 feet below the invert of the tank.

SIDE PANEL PIPE DIAMETER CHART

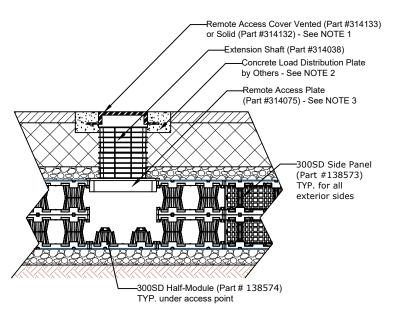
Inlet/Outlet Pipe Diameter				
Minimum	Maximum			
4 inches	6 inches			

NOTE 1: Cut inlet / outlet pipe hole prior to NOTE 2: Contact ACO for guidance for inlet / outlet pipes larger than 6-inch



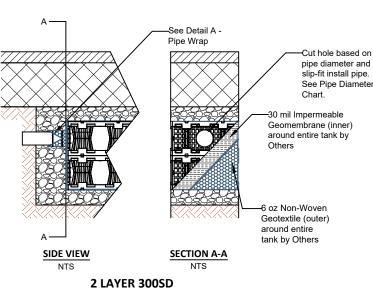
2 LAYER 300SD DETENTION CROSS SECTION

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



2 LAYER 300SD ACCESS POINT CROSS SECTION

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



NOTE 1: Ventilation may be crucial to reducing the pressure build

CHECKED BY DRAWN BY J Jonke A Frye DATE REV. 0 10/01/2024

STORMBRIXX STANDARD DETAILS **300SD SYSTEM - 2 LAYER - DETENTION**



PIPE INSTALLATION

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