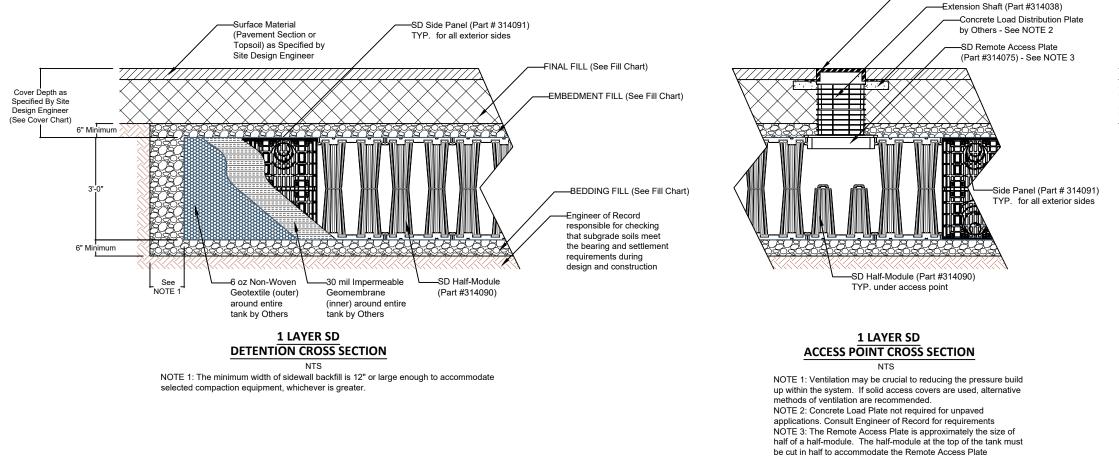
Material Location	Description	Material Classification		Classification	Compaction/Density Requirement (NOTE 3)	Equipment Make (NOTE 1)	Maximum Gross Veh	hicle Weight (lbs)
	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans				Plate Compact or Static Roll up to 8-inch loose lifts to densify	Plate Compactor	1,50	00
					fill. Use at least two full passes of the equipment to level the	Roller - Static Mode	12,0	000
					layer. Continue until 24 inches of total fill thickness has been	Low Ground Pressure Tracked Vehicles (NOTE 2) 20,0	000
					placed above the tank. For AASHTO M145 soils, a minimum of 95% of the Standard Proctor Maximum Dry Density is	Roller - Vibratory Mode	12,0	000
FINAL FILL						Dump Trucks and Pans		NOTE.3
Fill starting from the top of the embedment fill layer. (NOTE 1 and 2)		See Project Geotechnical Report and Site Design Engineer's Plans			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.			on for longer than 24 h —Cut Geotextile/ (
EMBEDMENT FILL								and wrap around
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		AASHTO M43	fill. Use at least two full passes of the equipment to level the	Stainless 🚺		
BEDDING FILL	Crushed Aggregate Blends	A-1, A-2-4, A-3	or	3, 357, 4, 467, 5, 56, 57	layer. For AASHTO M145 soils, a minimum of 95% of the	Steel Bands-		
Fill Immediately below the tank (NOTE 4)					Standard Proctor Maximum Dry Density is recommended.	by Others		—30 mil Imperme Geomembrane
NOTE 1: This layer can include pavement subbas								entire tank by O
NOTE 3: See Construction Equipment Table for m	embedment fill, fines migration from the final to en nore information for construction equipment limitat soils meet the material classification listed. Fill m	ons.			r of 6 oz non-woven geotextile fabric at the final and embedment fill interface undwater conditions, and tank invert elevation.	DE	ETAIL A E WRAP	—6 oz Non-Wove (outer) around e by Others

FILL CHART



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

STORMBRIXX STANDARD DETAILS SD SYSTEM - 1 LAYER - DETENTION

Fill Depth over Tank (in)
6
18
14
24

CONSTRUCTION EQUIPMENT CHART

during construction. Backfill material may be temporarily cavation for longer than 24 hours.

> -Cut Geotextile/ Geomembrane and wrap around inlet/outlet pipe

-30 mil Impermeable Geomembrane (inner) around entire tank by Others

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

COVER CHART

Live Loading Condition	Cover Thickness (Inches)		
Live Loading Condition	Minimum	Maximum	
Non-Trafficked Areas (i.e.	12	78	
Landscaping)	12	78	
Passenger Vehicles Parking Lot			
(i.e. Gross Vehicle Weight	18	78	
<10,000 lbs)			
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-	24	78	
20 vehicle			
Heavy AASHTO HS-20 Traffic	32	78	
NOTE 1: Minimum Cover Thick	ness in non-ti	afficked	

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 the invert of the tank.

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

