CONSTRUCTION EQUIPMENT CHART

DETAIL A

PIPE WRAP NTS

Maximum Gross Vehicle Weight (lbs) 1.500

12,000

20,000

12.000

NOTE_.3

Others

Material Location	Description	Mat	erial C	lassification	Compaction/Density Requirement (NOTE 3)	Equipment Make (NOTE 1)	Maximum 0
					Plate Compact or Static Roll up to 8-inch loose lifts to densify	Plate Compactor	
					fill. Use at least two full passes of the equipment to level the	Roller - Static Mode	
					layer. Continue until 24 inches of total fill thickness has been	Low Ground Pressure Tracked Vehicles (NOTE 2)	
					placed above the tank. For AASHTO M145 soils, a minimum	Roller - Vibratory Mode	
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			of 95% of the Standard Proctor Maximum Dry Density is	Dump Trucks and Pans	
					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 -	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 sy unloaded near the excavation. Material shall not be stockpiled near the	
				1	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	or	AASHTO M43	fill. Use at least two full passes of the equipment to level the	Stainless Steel Bands	
BEDDING FILL	Crushed Aggregate Blends	A-1, A-2-4, A-3	01	3, 357, 4, 467, 5, 56, 57	layer. For AASHTO M145 soils, a minimum of 95% of the	by Others	
Fill Immediately below the tank (NOTE 4)					Standard Proctor Maximum Dry Density is recommended.		

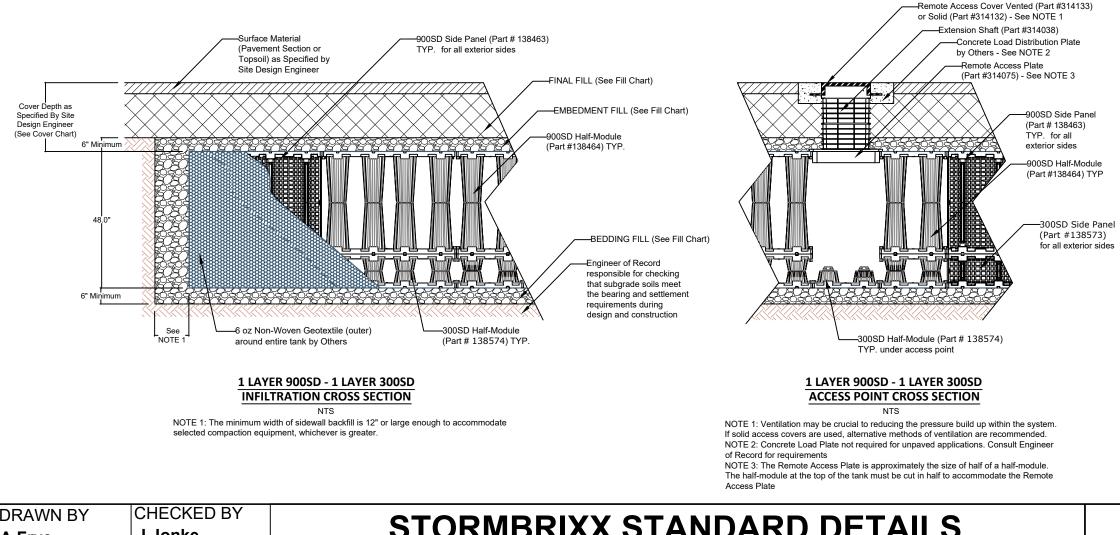
FILL CHART

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



DRAWN BY A Frye	CHECKED BY J Jonke
DATE	REV.
10/01/2024	2

STORMBRIXX STANDARD DETAILS 900SD/300SD SYSTEM - 1 LAYER - INFILTRATION

Fill Depth over Tank (in)			
6			
18			
14			
24			

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

> -Cut Geotextile and wrap around inlet/outlet pipe

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

COVER	CHART
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Live Loading Condition	Cover Thickness (inches)		
Live Loading Condition	Minimum	Maximum	
Non-Trafficked Areas	12	78	
(i.e. 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-20	24	78	
vehicle			
Francisco AACUTO LIC 20 Traffia	20	70	

Frequent AASHTO HS-20 Traffic 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			
Module Type	Minimum	Maximum		
900SD	4 inches	24 inches (Note 2)		
300SD	4 inches	6 inches		
NOTE 1: Cut inlet / outlet pipe hole prior to side panel installation.				

NOTE 2: Pipe holes should be aligned with the vertical centerline of the side panel. For pipes larger than 18 inches, center the pipe hole along the seam of two side panels.

NOTE 3: Contact ACO for guidance for inlet / outlet pipes larger than 24-inch diameter

