CONSTRUCTION EQUIPMENT CHART

Maximum Gross Vehicle Weight (lbs) 1.500

12,000

20,000

12.000

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Remote Access Cover Vented (Part #314053) or Solid (Part #314043) - See NOTE 1

DETAIL A

PIPE WRAP

NTS

NOTE 3

by Others

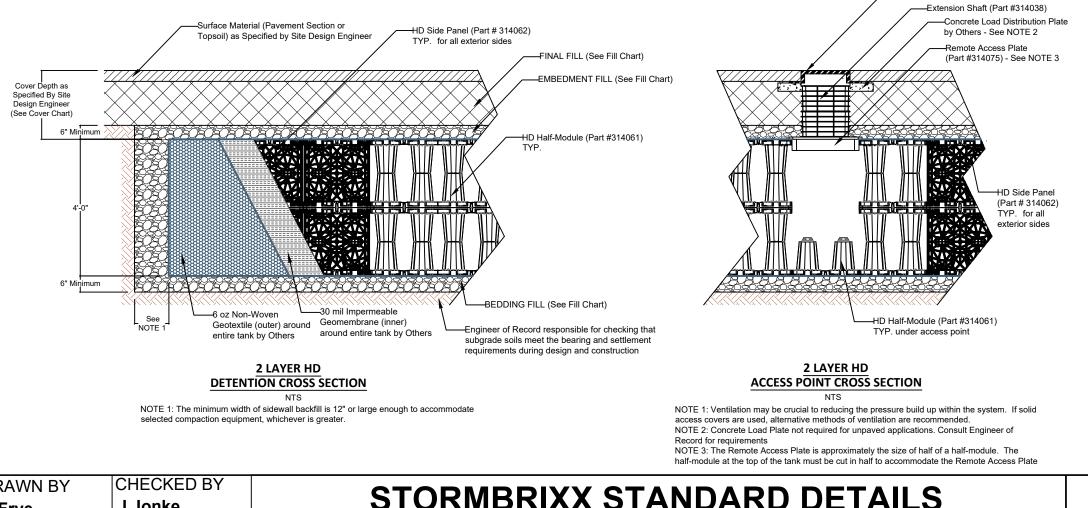
Material Location	Description	Material C	assification	Compaction/Density Requirement (NOTE 3)	Equipment Make (NOTE 1)	Maximum @
				Plate Compact or Static Roll up to 8-inch loose lifts to densify	Plate Compactor	
			fill. Use at least two full passes of the equipment to level the	Roller - Static Mode		
			layer. Continue until 24 inches of total fill thickness has been	Low Ground Pressure Tracked Vehicles (NOTE 2)		
		See Project Geotechnical Report and Site Design Engineer's Plans		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			of 95% of the Standard Proctor Maximum Dry Density is	Dump Trucks and Pans	
				recommended.	NOTE 1: Vehicles shall make straight runs only across tank foot NOTE 2: Maximum track pressure 7 psi for tracked vehicles.	
				After 24 inches of fill is placed, place fill in accordance with	NOTE 3: Dump trucks and pans shall not traverse or pa unloaded near the excavation. Material shall not be sto	
				the engineer of record's relative compaction requirement or	unicaded hear the excavation. Material shall not be sid	ickplied near the
				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	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 or	3, 357, 4, 467, 5, 56, 57	layer. For AASHTO M145 soils, a minimum of 95% of the	by Others	88
Fill Immediately below the tank				Standard Proctor Maximum Dry Density is recommended.		
(NOTE 4)						222

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.
04/26/2024	0
04/26/2024	0

STORMBRIXX STANDARD DETAILS HD SYSTEM - 2 LAYER - DETENTION

COVER	CHART
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Fill Depth over Tank (in)			
6			
18			
14			
24			

DTE 3: Dump trucks and pans shall not traverse or park over the system during construction. Backfill material may be temporarily loaded near the excavation. Material shall not be stockpiled near the excavation 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

Live Londing Condition	Cover Thickness		
Live Loading Condition	Minimum	Maximum	
Non-Trafficked Areas (i.e.	12	130	
Landscaping)			
Passenger Vehicles Parking Lot			
(i.e. Gross Vehicle Weight	18	130	
<10,000 lbs)			
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-	20	130	
20 vehicle			
Heavy AASHTO HS-20 Traffic	22	130	
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-	24	130	
25 vehicle			
Heavy AASHTO HS-25 Traffic	26	130	

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 the invert of the tank

SIDE PANEL PIPE DIAMETER CHART

Inlet/Outlet Pipe Diameter			
Maximum			
18 inches*			

NOTE 1: Maximum pipe diameter directly into side panel is 15 inches. Remote access unit required for pipes larger than 15 inche NOTE 2: Cut inlet / outlet pipe hole prior to side panel installation. *NOTE 3: Contact ACO for guidance for inlet / outlet pipes larger than 18-inch diameter

