CONSTRUCTION EQUIPMENT CHART

Maximum Gross Vehicle Weight (lbs)

1.500

12,000

20,000

12.000

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DETAIL A PIPE WRAP

NTS

NOTE 3

Others

Material Location	Description	Mat	terial C	lassification	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)	
					placed above the tank. For AASHTO M145 soils, a minimum	Roller - Vibratory Mode		
FINAL FILL	Suitable Fill Materials as noted in the				of 95% of the Standard Proctor Maximum Dry Density is	Dump Trucks and Pans		
Fill starting from the top of the embedment fill layer. (NOTE 1 and 2)	Project Geotechnical Report and noted on the Site Design Engineer's Plans			nnical Report and Site ineer's Plans	recommended.	NOTE 1: Vehicles shall make straight runs on NOTE 2: Maximum track pressure 7 psi for		
					After 24 inches of fill is placed, place fill in accordance with	NOTE 3: Dump trucks and pans shall not tra unloaded near the excavation. Material sha		
					the engineer of record's relative compaction requirement or		all not be stock	cpiled field the
					to 95% of the Standard Proctor Maximum Dry Density -			
					whichever is greater.		7	
EMBEDMENT FILL							Ý X	
Fill Immediately Surrounding the sides and					Plate Compact or Static Roll up to 8-inch loose lifts to densify		\geq	
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					Standard Proctor Maximum Dry Density is recommended.			
(NOTE 4)								

FILL CHART

NOTE 1: This layer can include pavement subbase

DATE

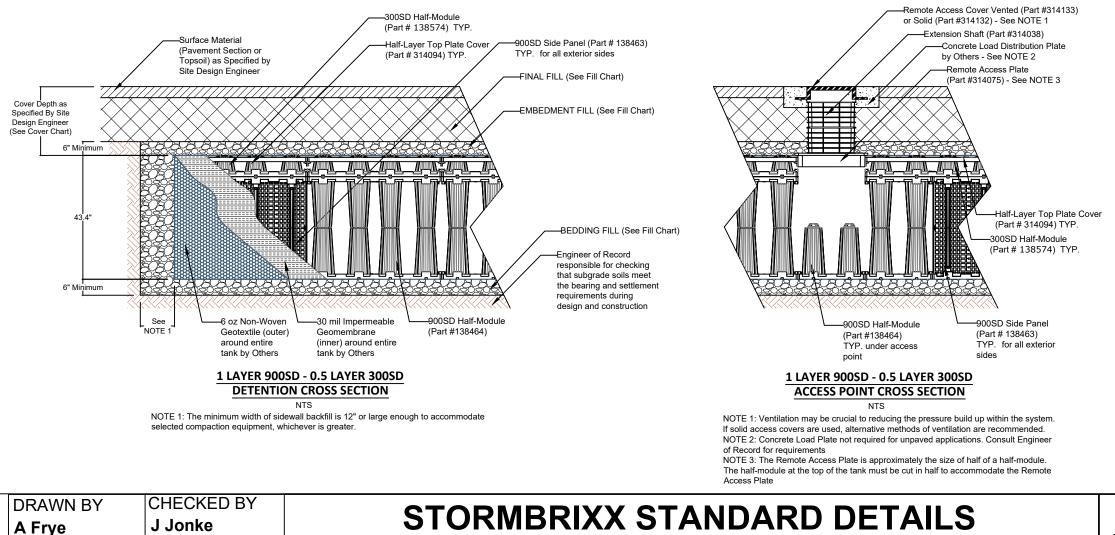
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NOTE 2: If open-graded aggregates are used for embedment fill, fines migration from the final to embedment fill layer may be reduced by installing a layer of 6 oz non-woven geotextile fabric at the final and embedment fill interface. NOTE 3: See Construction 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



SYSTEM - 900SD 1 LAYER - 300SD 0.5 LAYER - DETENTION

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 inloaded 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 by

COVER CHART

Live Loading Condition	Cover Thickness (inches)		
Live Loading Condition	Minimum	Maximum	
Non-Trafficked Areas	12	78	
(i.e. Landscaping)	12	/8	
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			
Frequent AASHTO HS-20 Traffic	26	78	

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	4 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: 0.5-layer 300SD module does not have side panels. Pipe may be set between top plate cover and bottom of module body. Contact ACO for guidance.

NOTE 4: Contact ACO for guidance for inlet / outlet pipes larger than 24-inch diameter

