FILL CHART			CONSTRUCTION EQUIPMENT CHART			
Material Location	Description	Material Classification	Compaction/Density Requirement (NOTE 3)	Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs)	
			Plate Compact or Static Roll up to 8-inch loose lifts to densify	Plate Compactor	1,500	6
			fill. Use at least two full passes of the equipment to level the	Roller - Static Mode Low Ground Pressure Tracked Vehicles (NOTE 2)	12,000	18
			layer. Continue until 24 inches of total fill thickness has been placed above the tank. For AASHTO M145 soils, a minimum	Roller - Vibratory Mode	12,000	24
FINAL FILL	Suitable Fill Materials as noted in the		of 95% of the Standard Proctor Maximum Dry Density is	Dump Trucks and Pans	NOTE 3	
Fill starting from the top of the	Project Geotechnical Report and noted on	See Project Geotechnical Report and Site	recommended.	NOTE 1: Vehicles shall make straight runs only across to	ank footprint.	
embedment fill layer. (NOTE 1 and 2)) the Site Design Engineer's Plans	Design Engineer's Plans		NOTE 2: Maximum track pressure 7 psi for tracked vehic	cles.	en
			After 24 inches of fill is placed, place fill in accordance with	NOTE 3: Dump trucks and pans shall not traverse or par unloaded near the excavation. Material shall not be stor		
			the engineer of record's relative compaction requirement or			
			to 95% of the Standard Proctor Maximum Dry Density - whichever is greater.		Cut Geotextile/	
EMBEDMENT FILL						d inlet/outlet pipe oven Geotextile
Fill Immediately Surrounding the sides	s and		Plate Compact or Static Roll up to 8-inch loose lifts to densify		(outer) arou	nd entire tank
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	by Others	
BEDDING FILL	Crushed Aggregate Blends	A-1, A-2-4, A-3 3, 357, 4, 467, 5, 56, 5	7 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.	by Others	30 mil Impermeable Ge (inner) around entire ta	
(NOTE 4) NOTE 1: This layer can include pavement :	subhase			DETAIL A	(initial) alound churc ta	
NOTE 2: If open-graded aggregates are us	sed for embedment fill, fines migration from the final to er		er of 6 oz non-woven geotextile fabric at the final and embedment fill interface		D	
	ble for more information for construction equipment limita ad if the soils meet the material classification listed. Fill n		undwater conditions, and tank invert elevation.	NTS	-	
					ess Cover Vented (Part #314133) t #314043) - See NOTE 1	
	Surface Material (Pavement Se		er Top Plate Cover		on Shaft (Part #314038)	
	or Topsoil) as Specified by Site Design Engineer	(Part # 3	14094) TYP.		e Load Distribution Plate	
			ayer Side Panel (Part # 314095)		rs - See NOTE 2	
			all exterior sides		note Access Plate (Part	
	enti	re tank by Others	——FINAL FILL (See Fill Chart)	**************************************	14075) - See NOTE 3	
Cover Depth as		<u> </u>	—EMBEDMENT FILL (See Fill Chart)			
Specified By Site						
Design Engineer (See Cover Chart)	××××××××××××	\times	$\langle \times \rangle$		(Part # 314094) TYP.	Α
			k de		7	·/////////////////////////////////////
			HD Half-Module (Part #314061) TYP.			
						$\langle \times \times \times \times \rangle$
					— HD Half-Layer Side Panel $\qquad \sum$	\land
			A market		(Part # 314095)	
					TYP. for all exterior sides	
61.5"						
					HD Side Panel (Part # 314062) TYP. for all exterior sides	× b\$\$\$
			-BEDDING FILL (See Fill Chart)			
) b b b b b b b b b b b b b b b b b b b
			Engineer of Record			<u> </u>
			responsible for checking that subgrade soils meet			
6" Minimum			the bearing and settlement			
	<u>I C C C C C C C C C C</u>		requirements during			BE HI
		HD Side Panel (Part # 314062)		HD Half-Module (Part #314061)		
	See	TYP. for all exterior sides		TYP. under access point		
						bedebed
		(inner) around entire tank by Others				- INN AN
	2.5 LAYER HD			2.5 LAYER HD		
	DETENTION CROSS SEC	CTION		ACCESS POINT CROSS SECTION		SIDE VIEW
	NTS			NTS		SIDE VIEW NTS
	NOTE 1: The minimum width of sidewall backfill is selected compaction equipment, whichever is grea		NOTE 1: Ventilation may be used, alternative methods of	crucial to reducing the pressure build up within the sys ventilation are recommended.	tem. If solid access covers are	
			NOTE 2: Concrete Load Plat	e not required for unpaved applications. Consult Engir		P 11
				s Plate is approximately the size of half of a half-modu If to accommodate the Remote Access Plate	le. The half-module at the top	<u>PI</u>
	HECKED BY					
)RAWN BY CH						
		STORME	SRIXX STANDAR			
	Jonke	STORME	BRIXX STANDAF	RD DE LAILS	WEST	
A Frye J	Jonke					ALES OFFICE BEECHCRAFT ST.
Frye J			STANDAF STEM - 2.5 LAYER - DI		825 W CASA 0	

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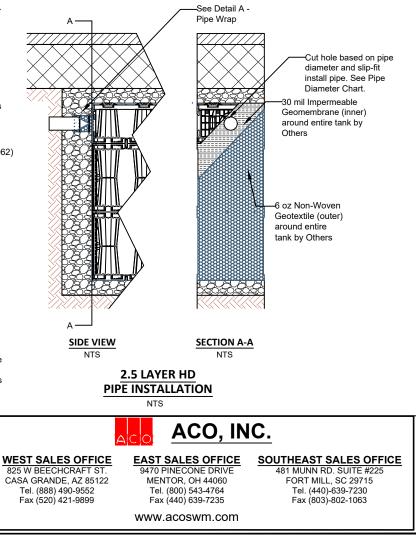
Live Loading Condition	Cover Thickness (inches)		
Live Loading Condition	Minimum	Maximum	
Non-Trafficked Areas (i.e.	12	118	
Landscaping)	12	118	
Passenger Vehicles Parking Lot			
(i.e. Gross Vehicle Weight	18	118	
<10,000 lbs)			
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-20	20	118	
vehicle			
Frequent AASHTO HS-20 Traffic	22	118	
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-25	24	118	
vehicle			

Frequent AASHTO HS-25 Traffic 26 118 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

Layer Height	Inlet/Outlet Pipe Diameter			
Layer neight	Minimum	Maximum		
0.5	4 inches	10 inches		
1 4 inches		15 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 15-inch diameter



COVER CHART