CONSTRUCTION EQUIPMENT CHART

Material Location							CONSTRUCTION EQUIPMENT CHART		
	Description	Mate	erial Clas	sification	Compaction/Density Requirement	nt (NOTE 3)	Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs) Minimum Fill Depth over Tank (in
					Plate Compact or Static Roll loose lifts t	o densify fill.	Plate Compactor	1,500	6
					Use at least two full passes of the equip	oment to level	Compact Track Loader (NOTE 2)	7,500	6
					the layer. Continue until 24 inches of to	otal fill thickness	Rubber-Tired Skid Steer (NOTE 3)	7,500	14
					has been placed above the tank. For AA		Low Ground Pressure Tracked Vehicles (NOTE Roller - Static Mode	,	14
	Suitable Fill Materials as noted in the				a minimum of 95% of the Standard Proc	· · · · · · · · · · · · · · · · · · ·		12,000	18
		See Project Ge	eotechni	cal Report and Site			Roller - Vibratory Mode	12,000	24
•	Project Geotechnical Report and noted	Desig	gn Engine	eer's Plans	Density is recommended.		Dump Trucks and Pans NOTE 1: Vehicles shall make straight runs only ac		ITE 5
mbedment fill layer. (NOTE 1 and 2)	on the Site Design Engineer's Plans	-	-				NOTE 2: Maximum ground pressure = 5 psi	oss tarik lootprint.	
					After 24 inches of fill is placed, place fil	in accordance	NOTE 3: Maximum axle load = 5,250 lbs		
					with the engineer of record's relative co	ompaction	NOTE 4: Maximum ground pressure = 7 psi NOTE 5: Contact ACO for more information regard	ing dump truck and pap traffic during const	rution
					requirement or to 95% of the Standard	Proctor Maximum	NOTE 6: Backfill material may be temporarily unlos		
					Dry Density - whichever is greater.		longer than 24 hours.		-30 mil Impermeable Geomembr
MBEDMENT FILL									(inner) around entire tank by Oth
ill Immediately Surrounding the sides					Plate Compact or Static Roll loose lifts t	·			. , .
	Sand-Gravel Mixtures or Open-Graded	AASHTO M145		AASHTO M43	Use at least two full passes of the equip	oment to level			-Cut Geotextile/ Geomembrane
	Crushed Aggregate Blends	A-1, A-2-4, A-3	or	, 357, 4, 467, 5, 56, 57	, the layer. For AASHTO M145 soils, a mii	nimum of 95% of			and wrap around inlet/outlet pip
	Crushed Aggregate Biends	A-1, A-2-4, A-5	5,	, 557, 4, 407, 5, 50, 57	the Standard Proctor Maximum Dry Den	isity is			-6 oz Non-Woven Geotextile (ou
ill Immediately below the tank					recommended.				around entire tank by Others
NOTE 4)									around entire tank by Others
OTE 1: This layer can include pavement subbase		1				1	Stainless	<u>anaki, 100008808888</u>	
	mbedment fill, fines migration from the final to em ore information for construction equipment limitati		ay be redu	iced by installing a layer	of 6 oz non-woven geotextile fabric at the final and	embedment fill interface			
	soils meet the material classification listed. Fill ma		ected base	ed on classification, grour	ndwater conditions, and tank invert elevation.			TAIL A	
· · · ·							PIP	E WRAP	
								NTS	
								Access Cover Vented (Part #314133)	
								Part #314132) - See NOTE 1	
							Exte	nsion Shaft (Part #314038)	
								· · · · · ·	
	Surface Material (P				Half-Layer Top Plate Cover			Concrete Load Distribution Plate by Others - See NOTE 2	
	Topsoil) as Specifie	ed by Site Design	Engineer		(Part # 314094) TYP.			by Guleis - Gee NOTE 2	Α
					EINAL EILL (See Fill Chart)			600HD Remote Access Unit	
					FINAL FILL (See Fill Chart)			(Part #27034) - See NOTE 3	
	\	///////////////////////////////////////	<u> </u>]]	<u> </u>		$\sqrt{1/77}$			
Depth as Specified	$\land\land\land\land\land\land\land\land\land\land\land\land\land$	\times \times \times $>$			EMBEDMENT FILL	$\sqrt{-}$			
te Design Engineer		\times \times \vee \vee	$\sim \sim$	$\sim \sim $	(See Fill Chart)			Half-Layer Top Plate	
		\times	\rightarrow		(See Fill Chart)			Cover (Part # 314094	
ee Cover Chart) $\times \times \times$			\searrow					Cover (Part # 314094 TYP.	′ ××××
					(See Fill Chart) 300SD Half-Module			Cover (Part # 314094 TYP. 300SD Half-Moo	/ Jule
ee Cover Chart)					(See Fill Chart) 			Cover (Part # 314094 TYP. 300SD Half-Moo (Part # 138574	/ Jule
					(See Fill Chart) 			Cover (Part # 314094 TYP. 300SD Half-Moo	/ Jule
6" Minimum 6.8"					(See Fill Chart) 			Cover (Part # 314094 TYP. 300SD Half-Moo (Part # 138574	/ Jule
6.8"					(See Fill Chart) 	24"		Cover (Part # 314094 TYP. 300SD Half-Moo (Part # 138574	/ Jule
6.8"					(See Fill Chart) 	24"		Cover (Part # 314094 TYP. 300SD Half-Moo (Part # 138574	/ Jule
6" Minimum 6.8"					(See Fill Chart) 	24"		Cover (Part # 314094 TYP. 300SD Half-Moo (Part # 138574	/ Jule
6" Minimum 6.8"					(See Fill Chart) 			Cover (Part # 314094 TYP. 300SD Half-Moo (Part # 138574	/ Jule
6" Minimum 6.8" 6" Minimum See					(See Fill Chart) 	24" 6" Miņimum		Cover (Part # 314094 TYP. 300SD Half-Moo (Part # 138574	/ Jule
6" Minimum 6.8" 6" Minimum			Fill Chart		(See Fill Chart) 	24" 6" Miņimum		Cover (Part # 314094 TYP. 300SD Half-Moo (Part # 138574 TYP.	jule
6" Minimum 6.8" 6" Minimum	e J	DDING FILL (See	Fill Chart		(See Fill Chart) 	24" 6" Miņimum		Cover (Part # 314094 TYP. 300SD Half-Mod (Part # 138574 TYP. cosss Holes	/ Jule
6" Minimum 6.8" 6" Minimum	e J E 1 30 mil Impe (inner) arou	DDING FILL (See ermeable Geomer and entire tank by	Fill Chart		(See Fill Chart) 		SeeSee NO	Cover (Part # 314094 TYP. 300SD Half-Mod (Part # 138574 TYP. cosss Holes	/ Jule
6" Minimum 6.8" 6" Minimum See	e E 1 6 oz Non-Woven Geotextil	DDING FILL (See ermeable Geomer ind entire tank by e (outer)	Fill Chart		(See Fill Chart) 			Cover (Part # 314094 TYP. 300SD Half-Mod (Part # 138574 TYP. cosss Holes	/ Jule
6" Minimum 6.8" 6" Minimum See	e J E 1 30 mil Impe (inner) arou	DDING FILL (See ermeable Geomer ind entire tank by e (outer)	Fill Chart		(See Fill Chart) 		See	Cover (Part # 314094 TYP. 300SD Half-Mod (Part # 138574 TYP. cosss Holes	jule
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6" Minimum 6.8" 6" Minimum See	E 1 BEE 30 mil Impe (inner) arou 6 oz Non-Woven Geotextil around entire tank by Othe 0.5 LAYER 300 DETENTION CROSS	DDING FILL (See ermeable Geomer ind entire tank by e (outer) rs	Fill Chart		(See Fill Chart) 		See NOTE 4 NOTE 4 <u>0.5 LAYER 300SD</u> ACCESS UNIT CROSS SECTION	Cover (Part # 314094 TYP. 300SD Half-Mod (Part # 138574 TYP. covers Holes TE 5	jule
6" Minimum 6.8" 6" Minimum 6" Sec NOTE	E 1 BEL 30 mil Impe (inner) arou 6 oz Non-Woven Geotextil around entire tank by Other 0.5 LAYER 300 DETENTION CROSS NTS	DDING FILL (See ermeable Geomer ind entire tank by e (outer) rs DSD SECTION	Fill Chart nbrane Others	t)	(See Fill Chart) 		NOTE 4 <u>O.5 LAYER 300SD</u> <u>ACCESS UNIT CROSS SECTION</u> NTS	Cover (Part # 314094 TYP. 300SD Half-Mod (Part # 138574 TYP. coess Holes TE 5	y dule
6" Minimum 6.8" 6" Minimum See NOTE	e 1 30 mil Impe (inner) arou 6 oz Non-Woven Geotextil around entire tank by Othe 0.5 LAYER 300 DETENTION CROSS NTS TE 1: The minimum width of sidewall backfi	DDING FILL (See ermeable Geomer ind entire tank by e (outer) rs DSD SECTION II is 12" or large er	Fill Chart nbrane Others	t)	(See Fill Chart) 	NOTE 1: Ventilatio	NOTE 4 <u>O.5 LAYER 300SD</u> <u>ACCESS UNIT CROSS SECTION</u> NTS n may be crucial to reducing the pressure build	Cover (Part # 314094 TYP. 300SD Half-Moc (Part # 138574 TYP. cocess Holes TE 5 DN up within the system.	y dule
6" Minimum 6.8" 6" Minimum See NOTE	E 1 Generation of the main of	DDING FILL (See ermeable Geomer ind entire tank by e (outer) rs DSD SECTION Il is 12" or large er greater.	Fill Chart nbrane Others	t)	(See Fill Chart) 	NOTE 1: Ventilation	NOTE 4 <u>O.5 LAYER 300SD</u> <u>ACCESS UNIT CROSS SECTION</u> NTS n may be crucial to reducing the pressure build ers are used, alternative methods of ventilation	Cover (Part # 314094 TYP. 300SD Half-Moc (Part # 138574 TYP. covers (Part # 138574) TYP. covers	y dule
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6.8" 6" Minimum Set NOTE	E 1 Generation of the main of	DDING FILL (See ermeable Geomer ind entire tank by e (outer) rs DSD SECTION Il is 12" or large er greater.	Fill Chart nbrane Others	t)	(See Fill Chart) 	NOTE 1: Ventilation If solid access cove NOTE 2: Concrete of Record for requi NOTE 3: To accom be cut in half. See NOTE 4: The mini accommodate sele NOTE 5: Contracto	Interior Ac- See NOTE 4 <u>O.5 LAYER 300SD</u> <u>ACCESS UNIT CROSS SECTION</u> NTS In may be crucial to reducing the pressure build are are used, alternative methods of ventilation Load Plate not required for unpaved application rements Imodate the 600HD Remote Access Unit, half-rr the project-specific layer orientation drawings f mum width of sidewall backfill is 12" or large en cted compaction equipment, whichever is great or to cut template holes on interior panels to allo	Cover (Part # 314094 TYP. 300SD Half-Moc (Part # 138574 TYP. Covers (Part # 138574) Covers (Part # 138574)	/ Jule
6" Minimum 6.8" 6" Minimum See NOTE	E 1 Generation of the main of	DDING FILL (See ermeable Geomer ind entire tank by e (outer) rs DSD SECTION Il is 12" or large er greater.	Fill Chart nbrane Others	t)	(See Fill Chart) 	NOTE 1: Ventilation If solid access cove NOTE 2: Concrete of Record for requi NOTE 3: To accom be cut in half. See NOTE 4: The mini accommodate sele NOTE 5: Contract tank access. Unles	Interior Ac- See NOTE 4 <u>OLS LAYER 300SD</u> <u>ACCESS UNIT CROSS SECTION</u> NTS In may be crucial to reducing the pressure build ers are used, alternative methods of ventilation Load Plate not required for unpaved application rements Imodate the 600HD Remote Access Unit, half-r the project-specific layer orientation drawings f mum width of sidewall backfill is 12" or large en cted compaction equipment, whichever is great	Cover (Part # 314094 TYP. 300SD Half-Moc (Part # 138574 TYP. Cover (Part #	y dule

FILL CHART

IECKED BY	DRAWN BY
Jonke	A Frye
EV.	DATE
	12/20/2024
EV.	

STORMBRIXX STANDARD DETAILS 300SD SYSTEM - 0.5 LAYER - DETENTION

COVER CHART

Live Loading Condition	Cover Thickness (inches)			
Live Loading Condition	Minimum	Maximum		
Non-Trafficked Areas (i.e.	12	78		
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.

PIPE DIAMETER CHART

Pipe Location	Pipe Diameter					
Pipe Location	Minimum	Maximum				
Module	4 inches					
Remote Access Unit	6 inches 15 inches (See N					
NOTE 1: Cut inlet / outlet pipe hole prior to Module						

NOTE 2: If the 600HD Remote Access Unit with Adapter Plate (Part #138140) is used, outlet pipes up to 18-inches in diameter may be installed.

