## CONSTRUCTION EQUIPMENT CHART

**DETAIL A** 

PIPE WRAP

NTS

Maximum Gross Vehicle Weight (lbs) 1.500

12,000

20,000

12.000

NOTE 3

by Others

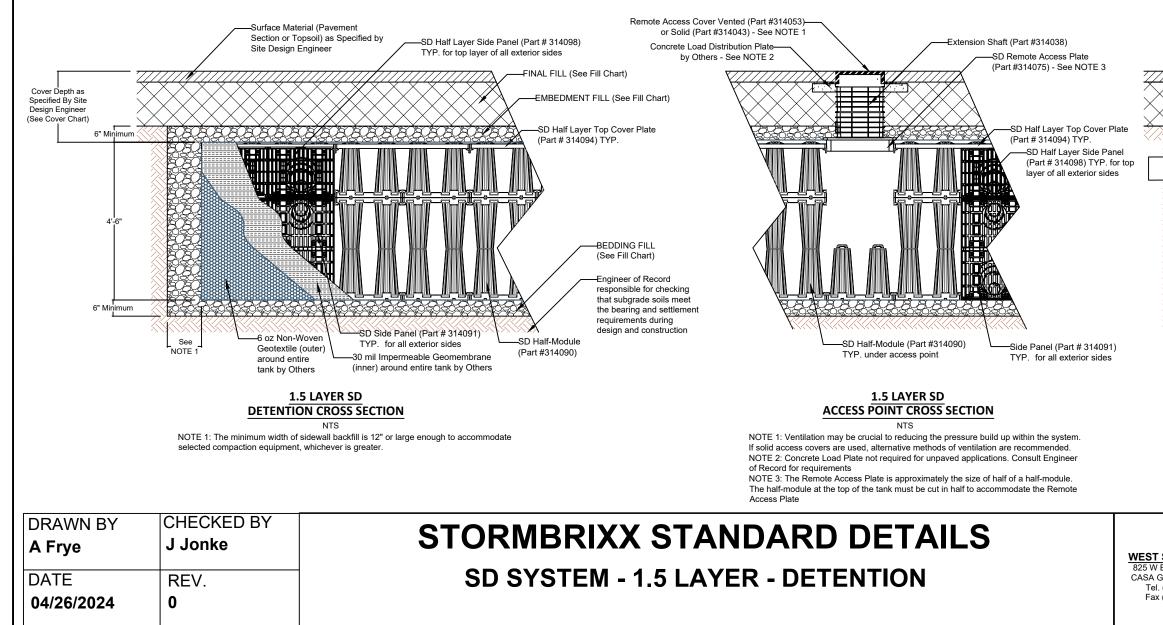
Material Location	Description	Mat	erial Cl	assification	Compaction/Density Requirement (NOTE 3)	Equipment Make (NOTE 1)		Maximum (
FINAL FILL Fill starting from the top of the embedment fill layer. (NOTE 1 and 2)	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans				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 Vehi	cles (NOTE 2)	
					placed above the tank. For AASHTO M145 soils, a minimum	Roller - Vibratory Mode		
					of 95% of the Standard Proctor Maximum Dry Density is	Dump Trucks and Pans		
		See Project Geotechnical Report and Site Design Engineer's Plans			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 - whichever is greater.	NOTE 1: Vehicles shall make straight ru NOTE 2: Maximum track pressure 7 psi NOTE 3: Dump trucks and pans shall nu unloaded near the excavation. Material	i for tracked vehic ot traverse or par	cles. k over the syste kpiled near the
EMBEDMENT FILL Fill Immediately Surrounding the sides and top of tank (NOTE 4) BEDDING FILL Fill Immediately below the tank (NOTE 4)	Sand-Gravel Mixtures or Open-Graded Crushed Aggregate Blends	AASHTO M145 A-1, A-2-4, A-3	or	AASHTO M43 3, 357, 4, 467, 5, 56, 57	Plate Compact or Static Roll up to 8-inch loose lifts to densify fill. Use at least two full passes of the equipment to level the layer. For AASHTO M145 soils, a minimum of 95% of the Standard Proctor Maximum Dry Density is recommended.	Stainless Steel Bands by Others		Ē

**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



6
18
14
24

IOTE 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/ 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

## **COVER CHART**

Live Loading Condition	Cover Thickness (Inches)			
Live Loading Condition	Minimum	Maximum		
Non-Trafficked Areas (i.e.	12	78		
Landscaping)	12			
Passenger Vehicles Parking Lot				
(i.e. Gross Vehicle Weight	18	78		
<10,000 lbs)				
Passenger Vehicle Parking Lot	24			
with one weekly AASHTO HS-		78		
20 vehicle				
Heavy AASHTO HS-20 Traffic	32	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

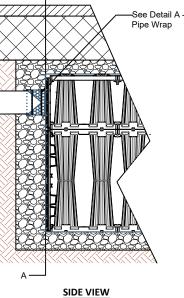
NOTE 2: Calculations assume backfill with a minimum 32-degree angle of internal friction and a maximum bulk density of 120 lbs per cubic foot, and a seasonal groundwater elevation at least 2 feet below the invert of the tank.

## SIDE PANEL PIPE **DIAMETER CHART**

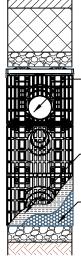
Inlet/Outlet Pipe Diameter					
Minimum	Maximum				
4 inches	18 inches				

NOTE 1: Cut inlet / outlet pipe hole prior to side panel installation

NOTE 2: Contact ACO for guidance for inlet / outlet pipes larger than 18-inch diameter



NTS



Cut template hole based on pipe diameter and slip-fit install pipe. See Pipe Diameter Chart.

> -30 mil Impermeable Geomembrane (inner) around entir tank by Others

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

SECTION A-A NTS

1.5 LAYER SD PIPE INSTALLATION NTS





WEST SALES OFFICE 825 W BEECHCRAFT ST CASA GRANDE, AZ 85122 Tel. (888) 490-9552 Fax (520) 421-9899

EAST SALES OFFICE 9470 PINECONE DRIVE MENTOR, OH 44060 Tel. (800) 543-4764 Fax (440) 639-7235

www.acoswm.com

SOUTHEAST SALES OFFICE 481 MUNN RD. SUITE #225 FORT MILL, SC 29715 Tel. (440)-639-7230 Fax (803)-802-1063