FILL CHART

Material Location	Description	Material Classification		lassification	Compaction/Density Requirement (NOTE 3)
	Description				Plate Compact or Static Roll loose lifts to densify fill. Use at least two full passes of the equipment to level the layer. Continue until 24 inches of total fill thickness has been placed above the tank. For AASHTO M145 soils,
,	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans	See Project Geotechnical Report and Site Design Engineer's Plans		ineer's Plans	a minimum of 95% of the Standard Proctor Maximum Dry Density is 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.
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	Ι ΔΔ5ΗΤΟ ΜΔ3	Plate Compact or Static Roll 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.

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

CONSTRUCTION EQUIPMENT CHART

Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs)	Minimum Fill Depth over Tank (in)		
Plate Compactor	1,500	6		
Compact Track Loader (NOTE 2)	7,500	6		
Rubber-Tired Skid Steer (NOTE 3)	7,500	14		
Low Ground Pressure Tracked Vehicles (NOTE 4)	20,000	14		
Roller - Static Mode	12,000	18		
Roller - Vibratory Mode	12,000	24		
Dump Trucks and Pans	NOTE 5			

NOTE 1: Vehicles shall make straight runs only across tank footprint.

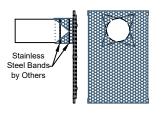
NOTE 2: Maximum ground pressure = 5 psi

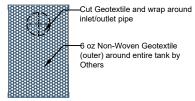
NOTE 3: Maximum axle load = 5,250 lbs

NOTE 4: Maximum ground pressure = 7 psi

NOTE 5: Contact ACO for more information regarding dump truck and pan traffic during construction.

NOTE 6: Backfill material may be temporarily unloaded near the excavation. Material shall not be stockpiled near the excavation for





DETAIL A - PIPE WRAP

Half-Layer Top Plate

exterior sides

Cover (Part # 314094)

900SD Half Layer Side Panel

(Part # 138567) TYP. for all

Remote Access Cover Vented (Part #314133)

or Solid (Part #314132) - See NOTE 1

-Extension Shaft (Part #314038)

by Others - See NOTE 2

-Remote Access Plate (Part #314075) - See NOTE 3

-Concrete Load Distribution Plate

-See Detail A Pipe Wrap Cut hole based on pipe

NOTE 2: Contact ACO for guidance for inlet / outlet pipes larger than 10-inch diameter

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

COVER CHART

NOTE 1: Minimum Cover Thickness in non-trafficked areas is

distribution. In trafficked areas, Minimum Cover Thicknesses are based on an asphalt-surfaced pavement with a 30 degree 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

SIDE PANEL PIPE

DIAMETER CHART

based on landscape surface with a 40 degree load

at least 2 feet below the invert of the tank

Layer Height

Live Loading Condition Non-Trafficked Areas

(i.e. Landscaping) Passenger Vehicles Parking Lot (i.e. Gross Vehicle Weight

<10,000 lbs) Passenger Vehicle Parking Lot with one weekly AASHTO HS-

20 vehicle

Heavy AASHTO HS-20 Traffic

Cover Thickness (inches)

78

78

78

12

26

Inlet/Outlet Pipe Diameter

diameter and slip-fit install

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

pipe. See Pipe Diameter Chart.

Maximum

Surface Material (Pavement Half-Layer Top Plate Cover Section or Topsoil) as Specified (Part # 314094) TYP. by Site Design Engineer 900SD Half Layer Side Panel (Part # 138567) TYP. for all exterior sides -FINAL FILL (See Fill Chart) Specified By Site -EMBEDMENT FILL (See Fill Chart) Design Engineer -900SD Half-Module (Part #138464) BEDDING FILL (See Fill Chart) Engineer of Record responsible for checking that subgrade soils meet the bearing and settlement requirements during 6 oz Non-Woven Geotextile (outer) design and construction around entire tank by Others

0.5 LAYER 900SD INFILTRATION CROSS SECTION

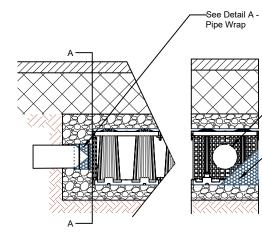
accommodate selected compaction equipment, whichever is greater.

NOTE 1: The minimum width of sidewall backfill is 12" or large enough to

0.5 LAYER 900SD

NOTE 1: Ventilation may be crucial to reducing the pressure build up within the system. If solid access covers are used, alternative methods of ventilation are recommended. NOTE 2: Concrete Load Plate not required for unpaved applications. Consult Engineer of Record for requirements

The half-module at the top of the tank must be cut in half to accommodate the Remote Access Plate



SIDE VIEW

0.5 LAYER 900SD PIPE INSTALLATION

ACCESS POINT CROSS SECTION

—900SD Half-Module (Part #138464)

TYP. under access point

NOTE 3: The Remote Access Plate is approximately the size of half of a half-module.

DRAWN BY A Frye	CHECKED BY J Jonke
DATE 12/23/2024	REV.

STORMBRIXX STANDARD DETAILS **INFILTRATION SYSTEM - 900SD 0.5 LAYER**



ACO, INC.

SECTION A-A

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