#### **FILL CHART**

Material Location	Description	Material Classification		lassification	Compaction/Density Requirement (NOTE 3)
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	See Project Geotechnical Report and Site Design Engineer's Plans		nnical Report and Site ineer's Plans	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, 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	AASHTO M43 3, 357, 4, 467, 5, 56, 57	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	NOT	E 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 longer than 24 hours.

Remote Access Cover Vented (Part #314133)

-Concrete Load Distribution Plate

(Part #314075) - See NOTE 3

Half-Layer Top Plate

Cover (Part # 314094)

300HD Side Panel

(Part #138461)

TYP, for all

exterior sides

or Solid (Part #314132) - See NOTE 1

-Extension Shaft (Part #314038)

by Others - See NOTE 2

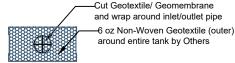
-Remote Access Plate





**DETAIL A** 

PIPE WRAP NTS



#### **COVER CHART**

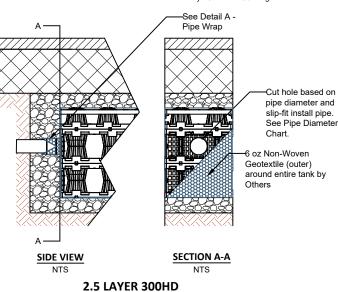
Live Loading Condition	Cover Thickness (inches)	
Live Loading Condition	Minimum	Maximum
Non-Trafficked Areas (i.e.	12	134
Landscaping)		
Passenger Vehicles Parking Lot		
(i.e. Gross Vehicle Weight	18	134
<10,000 lbs)		
Passenger Vehicle Parking Lot		
with one weekly AASHTO HS-20	20	134
vehicle		
Frequent AASHTO HS-20 Traffic	22	134
Passenger Vehicle Parking Lot		
with one weekly AASHTO HS-25	24	134
vehicle		
Frequent AASHTO HS-25 Traffic	26	134

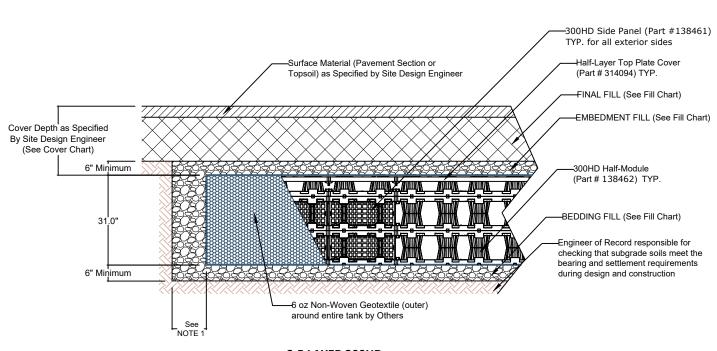
NOTE 1: Minimum Cover Thickness in non-trafficked areas is based on landscape surface with a 40 degree load distribution. In trafficked areas, Minimum Cover Thicknesses are based on an asphalt-surfaced pavement with a 30 degree load distribution. NOTE 2: Calculations assume backfill with a minimum 32-degree angle of internal friction and a maximum density of 120 lbs per cubic foot, and a seasonal groundwater elevation at least 2 feet

#### SIDE PANEL PIPE DIAMETER CHART

Inlet/Outlet Pipe Diameter		
Minimum	Maximum	
4 inches	6 inches	

NOTE 1: Cut inlet / outlet pipe hole prior to side NOTE 2: Contact ACO for guidance for inlet / outlet pipes larger than 6-inch diameter. NOTE 3: 0.5-layer 300 module does not have side panels and allows for a 4-inch diameter pipe only. Pipe may be set between top plate cover and bottom of module body. Contact ACO for guidance.





### 2.5 LAYER 300HD INFILTRATION CROSS SECTION

NOTE 1: The minimum width of sidewall backfill is 12" or large enough to accommodate selected compaction equipment, whichever is greater

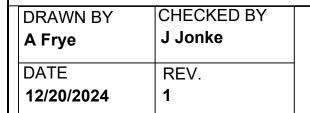
2.5 LAYER 300HD **ACCESS POINT CROSS SECTION** 

TYP. under access point

-300HD Half-Module (Part # 138462)

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

be cut in half to accommodate the Remote Access Plate



# STORMBRIXX STANDARD DETAILS **300HD SYSTEM - 2.5 LAYER - INFILTRATION**



## ACO, INC.

**WEST SALES OFFICE** 

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

PIPE INSTALLATION

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

Fax (440) 639-7235 www.acoswm.com