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 | | | 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

Cover Depth as

Specified By Site

Design Engineer (See Cover Chart) 6" Minimum

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.

-900SD Side Panel (Part #138463)

FINAL FILL (See Fill Chart)

900SD Half-Module

BEDDING FILL

(See Fill Chart)

Engineer of Record responsible for checking that subgrade soils meet the bearing and settlement requirements during design and construction

(Part #138464)

-EMBEDMENT FILL (See Fill Chart)

TYP. for all exterior sides

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

-Surface Material (Pavement

by Site Design Engineer

Section or Topsoil) as Specified

-6 oz Non-Woven Geotextile (outer)

around entire tank by Others

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

3 LAYER 900SD

INFILTRATION CROSS SECTION

selected compaction equipment, whichever is greater.

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 | | | |

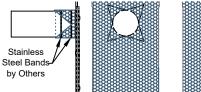
NOTE 1: Vehicles shall make straight runs only across tank footprint.

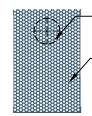
NOTE 2: Maximum ground pressure = 5 psi

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.

longer than 24 hours.





Cut Geotextile and wrap around inlet/outlet pipe

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

SIDE PANEL PIPE DIAMETER CHART

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

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

landscape surface with a 40 degree load distribution. In trafficked areas. Minimum Cover Thicknesses are based on an asphalt-surfaced

COVER CHART

Live Loading Condition Non-Trafficked Areas

(i.e. Landscaping) Passenger Vehicles Parking Lo

(i.e. Gross Vehicle Weight <10.000 lbs) Passenger Vehicle Parking Lot vith one weekly AASHTO HS-20

Frequent AASHTO HS-20 Traffic

pavement with a 30 degree load distribution.

Cover Thickness (inches)

32

32

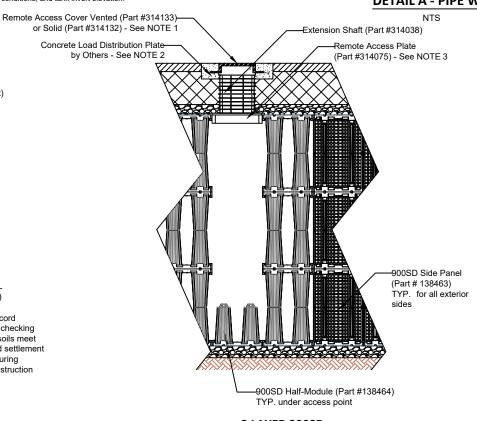
32

| Inle | Inlet/Outlet Pipe Diameter | | | | |
|---------|----------------------------|--------------------|--|--|--|
| Minimum | | Maximum | | | |
| 4 inche | es | 24 inches (Note 2) | | | |

NOTE 1: Cut inlet / outlet pipe hole prior to side panel installation.
NOTE 2: Pipe holes should be aligned with the vertical centerline of the side panel. For pipes larger than 18 inches, center the pipe hole along the seam of two side panels

NOTE 3: Contact ACO for guidance for inlet / outlet pipes larger than

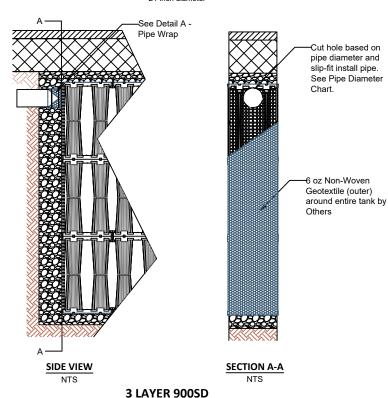
DETAIL A - PIPE WRAP



3 LAYER 900SD ACCESS POINT CROSS SECTION

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



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

STORMBRIXX STANDARD DETAILS 900SD SYSTEM - 3 LAYER - INFILTRATION



ACO, INC.

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