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

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

Surface Material (Pavement Section -Half-Layer Top Plate Cover or Topsoil) as Specified by Site (Part # 314094) TYP. Design Engineer -600HD Half-Layer Side Panel (Part # 314095) 6 oz Non-Woven TYP. for all exterior sides Geotextile (outer) around entire tank by Others -FINAL FILL (See Fill Chart) -EMBEDMENT FILL (See Fill Chart) Cover Depth as Specified By Site Design Engineer (See Cover Chart) 6" Minimum -600HD Half-Module (Part #314061) BEDDING FILL (See Fill Chart) Engineer of Record responsible for checking that subgrade soils meet the bearing and settlement requirements during design and construction 600HD Side Panel (Part # 314062)` TYP. for all exterior sides -30 mil Impermeable Geomembrane (inner) around entire tank by Others

2.5 LAYER 600HD **DETENTION CROSS SECTION**

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

CONSTRUCTION EQUIPMENT CHART

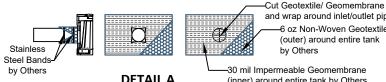
| Considerate and Males (NIOTE 1) | Bandana Caran Makida 18/aiakt (lba) | Minimum Fill Depth over Tank (in) | |
|---|--------------------------------------|-----------------------------------|--|
| Equipment Make (NOTE 1) | iviaximum Gross venicie weight (ibs) | | |
| Plate Compactor | 1,500 | 6 | |
| 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 Page | NOT | E S | |

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 and wrap around inlet/outlet pipe -6 oz Non-Woven Geotextile (outer) around entire tank by Others

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

DIAMETER CHART -Remote Access Cover Vented (Part #314133) Inlet/Outlet Pipe Diameter or Solid (Part #314132) - See NOTE 1 Layer Height Minimum Maximum Extension Shaft (Part #314038) 10 inches 4 inches 15 inches

NOTE 2: Contact ACO for guidance for inlet / outlet pipes larger than 15-inch diameter

COVER CHART

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

SIDE PANEL PIPE

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

Passenger Vehicle Parking Lot with one weekly AASHTO HS-25

vehicle Frequent AASHTO HS-25 Traffic

Frequent AASHTO HS-20 Traffic

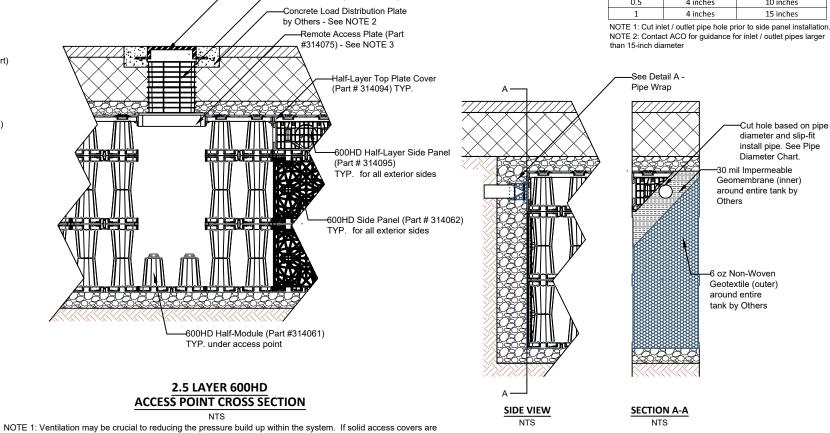
Cover Thickness (inches)

118

118

118

118



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

2.5 LAYER 600HD

PIPE INSTALLATION

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

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

| DRAWN BY A Frye | CHECKED BY J Jonke |
|-----------------|---------------------|
| DATE | REV. |
| 12/23/2024 | 1 |

STORMBRIXX STANDARD DETAILS **600HD SYSTEM - 2.5 LAYER - DETENTION**