

# Derrick TBSS-450P Separation System



**Application** Gravel, sand, & silt separation utilizing ultra-fine mesh screening

**System Capacity** up to 2000 gpm / 450 cum/hr

**Base Tank** 40' skid mounted, 3 compartment tank, crimped wall construction

Floor grating, walkways, handrails, stairway with handrail

Overhead lighting & control panel

Shakers & Mud Cleaners are removed for transport

**Scalping** **Qty (2) Derrick Belt Primers**  
Bolted on to the FLC-2000 3 Panel High G Units

Capacity: up to 2000 gpm / 450 cum/hr  
Screen Size: 5 -20 Mesh / 0.50 - 0.250mm  
Screen Type: Mesh Belt

**Primary Screening** **Qty (2) Derrick FLC-2000 3-Panel High "G" Shakers**

Capacity: up to 2000 gpm / 450 cum/hr  
Screen Size: 35 - 60 Mesh / 0.50 - 0.250mm  
Screen Type: Patented Derrick Urethane or Patented Derrick Pyramid  
Unit Screening Area: 24.9 sq. ft. Pyramid Screens / 35.7 Pyramid Plus Screens (ea. shaker)  
Total Screening Area: 49.8 sq. ft. Pyramid Screens / 71.4 Pyramid Plus Screens  
G-Force: 7.0 Continuous

**Desanding/Desilting** **Qty (2) Derrick FLC-2000 4-Panel High "G" Mud Cleaners**  
**(3) - 10" cones & (20) - 4" cones per mud cleaner**

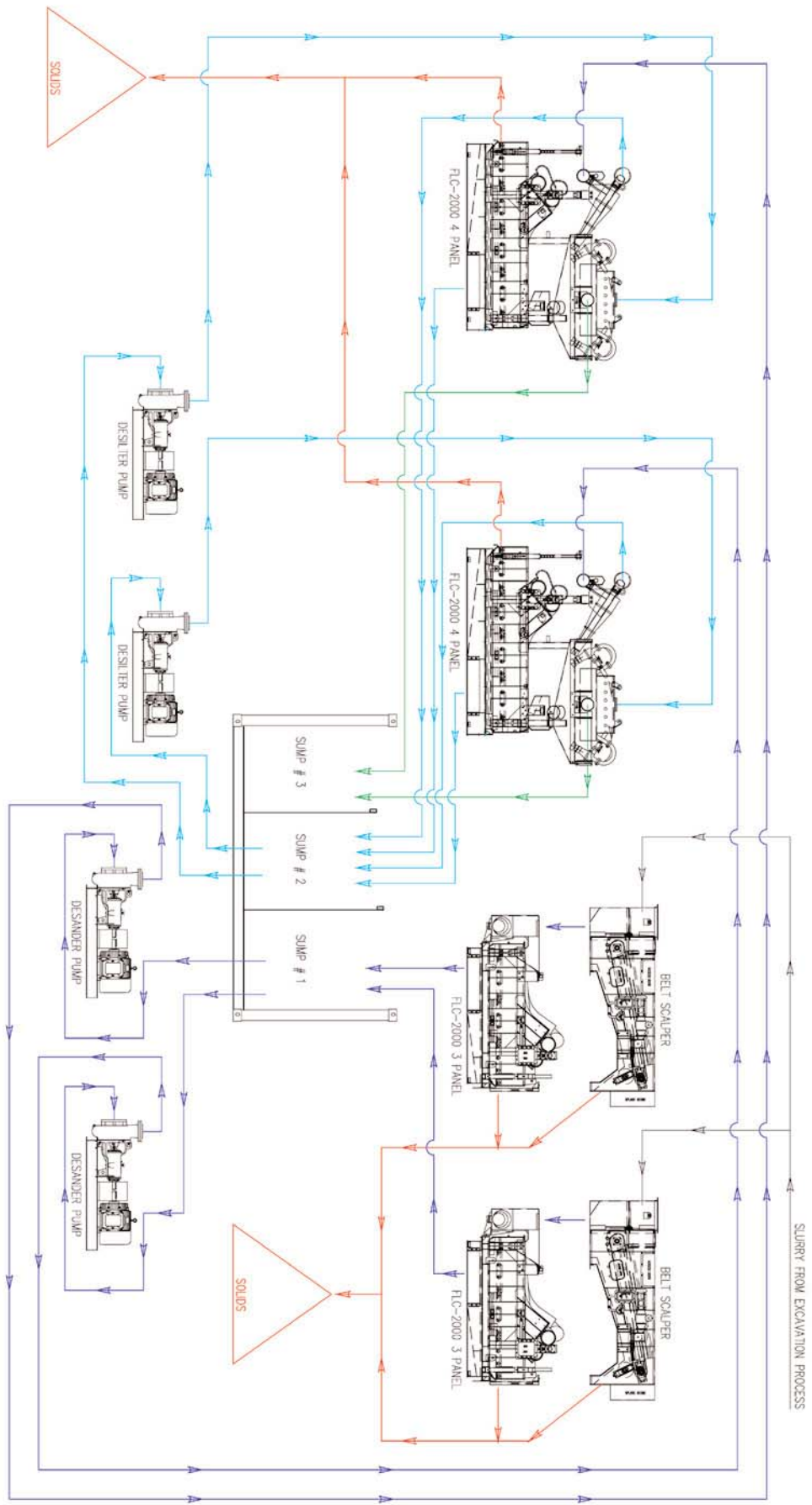
Desanding Capacity: 3000 gpm / 680 cum/hr  
Desanding Cone Cut Point d50 60 - 80 micron / .06 - .08 mm  
Desilting Capacity: 3000 gpm / 680 cum/hr  
Desilting Cone Cut Point d50 15 - 40 micron / .15 - .40 mm  
Screen Size: 140 - 210 mesh / 0.0041 - 0.0029 in / 0.106 - 0.075 mm  
Screen Type: Patented Derrick Pyramid or Pyramid Plus  
Unit Screening Area: 33.2 sq. ft. Pyramid Screens / 47.6 Pyramid Plus Screens (ea. mud cleaner)  
Total Screening Area: 66.4 sq. ft. Pyramid Screens / 93.2 Pyramid Plus Screens  
G-Force: 7.4 Continuous  
Centrifugal Feed Pumps: Qty (4) 8 x 6 x 13 with 75 hp electric motors

**Clean Fluid Transfer Pump** Not included. Separate transfer pump required to return clean fluid to TBM slurry tank

**Electrical Requirement** Not Included. 300 kW 460/480 volt, 3 phase, 60 Hz

## **Weights & Dimensions**

Overall Dimensions	8'-6" (W) x 40' (L) x 18' (H)	Tank Weight	58,000 lbs.
Primary Shaker Weight	7,000 lbs. (2 required)	Mud Cleaner Weight	10,000 lbs. (2 required)



NO.	REV.	DESCRIPTION	DATE
1	0	ISSUED FOR CONSTRUCTION	07/19/00
2	1	REVISED TO ADD DESANDER PUMPS	07/19/00
3	2	REVISED TO ADD DESILTER PUMPS	07/19/00
4	3	REVISED TO ADD SUMP #3	07/19/00
5	4	REVISED TO ADD BELT SCALPERS	07/19/00
6	5	REVISED TO ADD FLC-2000 3 PANEL	07/19/00
7	6	REVISED TO ADD FLC-2000 4 PANEL	07/19/00
8	7	REVISED TO ADD SOLIDS CONTAINER	07/19/00