D-1301
Inner Vessel Buffer Tank
VOLUME: 0.3 m³
DESIGN: full vacuum & +4 bar
DESIGN PRESSURE: 10 mbar
DESIGN TEMPERATURE: 15°C
MATERIAL: AISI 316L

PUMPS P1301(P1), P1501(P2)
FLOW RATE: 0–3.5 m³/h
HEAD: 45 m.c.l.
MATERIAL: PTFE (IN CONTACT)
OPERATING: Nitrogen, 3 bar, 15°C, 0–32 rpm
MAX PRESSURE: 4 bar

D-201
Buffer Expansion Tank
VOLUME: 1.4 m³
DESIGN: full vacuum & +4 bar
DESIGN PRESSURE: 10 mbar
DESIGN TEMPERATURE: 15°C
MATERIAL: AISI 316L

D-1302, D-1402, D-1502
Head Tanks
VOLUME: 0.068 m³
DESIGN: full vacuum
DESIGN PRESSURE: 10 mbar
DESIGN TEMPERATURE: 15°C
MATERIAL: AISI 316L

IV, IB
Thin Nylon Vessels
VOLUME:
OPERATING: 0.5 mbar, 15°C
DESIGN PRESSURE: MAX 1 mbar

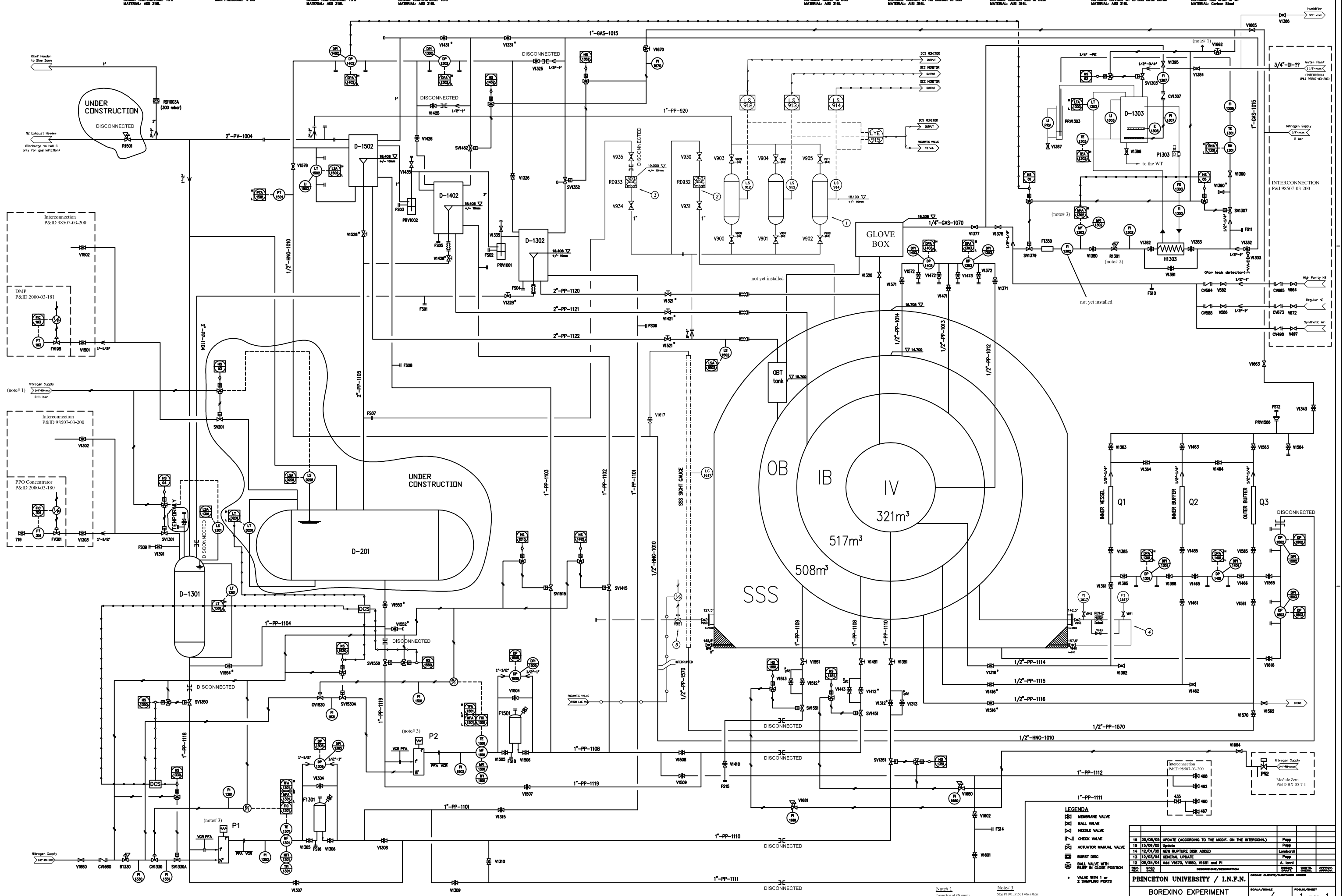
SSS
Stainless Steel Sphere
VOLUME: 1346 m³ (includes IV+IB+OB)
OPERATING: 10 mbar, 15°C
DESIGN: atmospheric vessel

Q1, Q2, Q3
Sight gauges
OPERATING: monitoring the efficiency of the DP-cells

Safety System 1)
Level Switches
TYPE: Floating level Switches
DESIGN: full vacuum
LOGIC: 2 over 3
ACTIONS: Alarm to DCS
MATERIAL: AISI 316L

Safety System 2)
Underpressure Rupture Disk
TYPE: Rembe
DESIGN: 200 mbar/full vacuum
LOGIC: unidirectional
ACTIONS: connect WT N2 blanket to SSS
MATERIAL: AISI 316L

Safety System 3)
Overpressure Rupture Disk
TYPE: Rembe
DESIGN: 300 mbar/full vacuum
LOGIC: unidirectional
ACTIONS: connect SSS to D201
MATERIAL: AISI 316L

Safety System 4)
Lift-Off Rupture Disk
TYPE: Rembe
DESIGN: 600 mbar/full vacuum
LOGIC: unidirectional
ACTIONS: connect WT to SSS outer buffer
MATERIAL: AISI 316L

Safety System 5)
Lift-Off Discharge Valve (temporary blinded)
TYPE: Pneumatic activated
DESIGN: 10 bar
LOGIC: controlled by system 1)
ACTIONS: fast drain of WT
MATERIAL: Carbon Steel