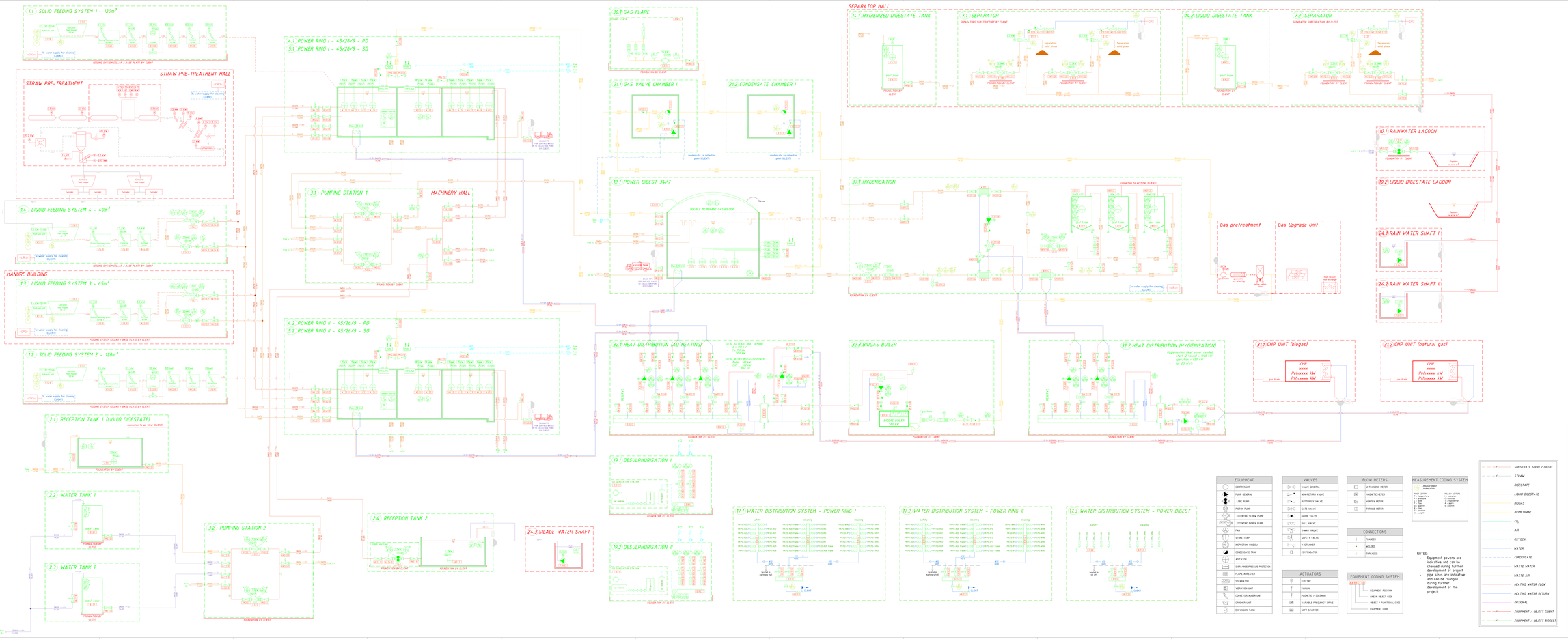
1.1 SOLID FEEDING SYSTEM 1 - 120m³
STRAW PRE-TREATMENT HALL
STRAW PRE-TREATMENT
1.4 LIQUID FEEDING SYSTEM 4 - 40m³
MANURE BUILDING
1.3 LIQUID FEEDING SYSTEM 3 - 65m³
1.2 SOLID FEEDING SYSTEM 2 - 120m³
2.1 RECEPTION TANK 1 (LIQUID DIGESTATE)
2.2 WATER TANK 1
2.3 WATER TANK 2
4.1 POWER RING I - 45/26/9 - PD
5.1 POWER RING I - 45/26/9 - SD
3.1 PUMPING STATION 1
MACHINERY HALL
4.2 POWER RING II - 45/26/9 - PD
5.2 POWER RING II - 45/26/9 - SD
3.2 PUMPING STATION 2
2.4 RECEPTION TANK 2
24.3 SILAGE WATER SHAFT
30.1 GAS FLARE
21.1 GAS VALVE CHAMBER I
21.2 CONDENSATE CHAMBER I
12.1 POWER DIGEST 34/7
DOUBLE MEMBRANE GASHOLDER
19.1 DESULPHURISATION I
19.2 DESULPHURISATION II
SEPARATOR HALL
14.1 HYGENIZED DIGESTATE TANK
7.1 SEPARATOR
14.2 LIQUID DIGESTATE TANK
7.2 SEPARATOR
37.1 HYGENISATION
10.1 RAINWATER LAGOON
10.2 LIQUID DIGESTATE LAGOON
24.1 RAIN WATER SHAFT I
24.2 RAIN WATER SHAFT II
Gas prefreatment
Gas Upgrade Unit
32.1 HEAT DISTRIBUTION (AD HEATING)
32.3 BIOGAS BOILER
32.2 HEAT DISTRIBUTION (HYGENISATION)
31.1 CHP UNIT (biogas)
31.2 CHP UNIT (natural gas)
17.1 WATER DISTRIBUTION SYSTEM - POWER RING I
17.2 WATER DISTRIBUTION SYSTEM - POWER RING II
17.3 WATER DISTRIBUTION SYSTEM - POWER DIGEST
EQUIPMENT
VALVES
FLOW METERS
MEASUREMENT CODING SYSTEM
CONNECTIONS
ACTUATORS
EQUIPMENT CODING SYSTEM
NOTES:
Equipment powers are indicative and can be changed during further development of project
Flow meters are indicative and can be changed during further development of the project
SUBSTRATE SOLID / LIQUID
STRAW
DIGESTATE
LIQUID DIGESTATE
BIOGAS
BIOMETHANE
CO2
AIR
OXYGEN
WATER
CONDENSATE
WASTE WATER
WASTE AIR
HEATING WATER FLOW
HEATING WATER RETURN
OPTIONAL
EQUIPMENT / OBJECT CLIENT
EQUIPMENT / OBJECT BIOGEST
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Project name: NEW ANAEROBIC DIGESTION PLANT IN HORSE CLOSE
Drawing title: PIPING AND INSTRUMENTATION DIAGRAM
Drawn by: Ivan Verma
Checked by: Ivan Verma
Approved by: Ivan Verma
Date: 01.04.2023
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