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# Pipeline Operations Training Facility

## Industry Forum

30th August 2006

UKOPA/06/0074

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# Agenda

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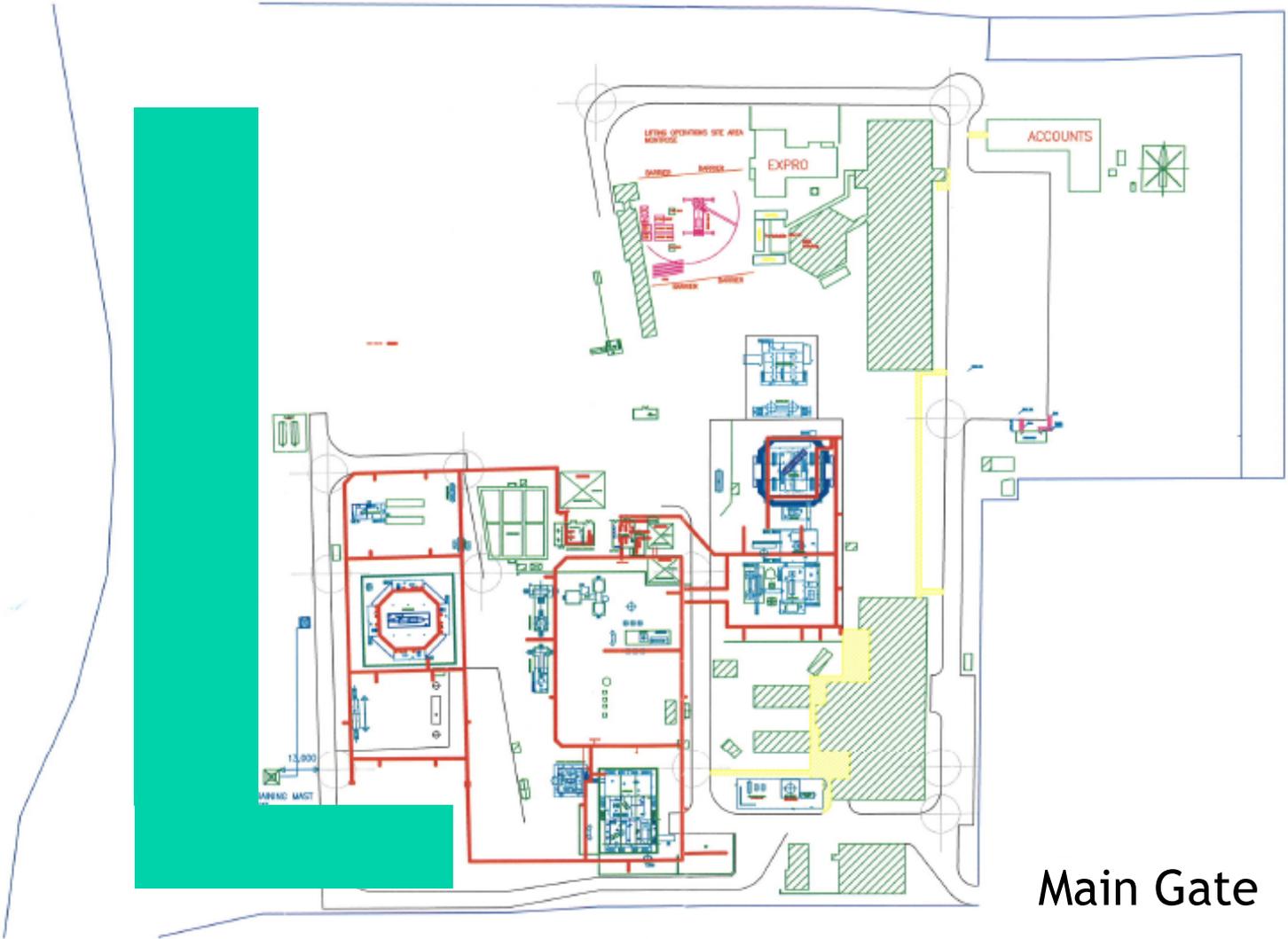
- Facility description
  - Programme schedule
  - Target market
  - Courses
  - Questions
-

# Facilities

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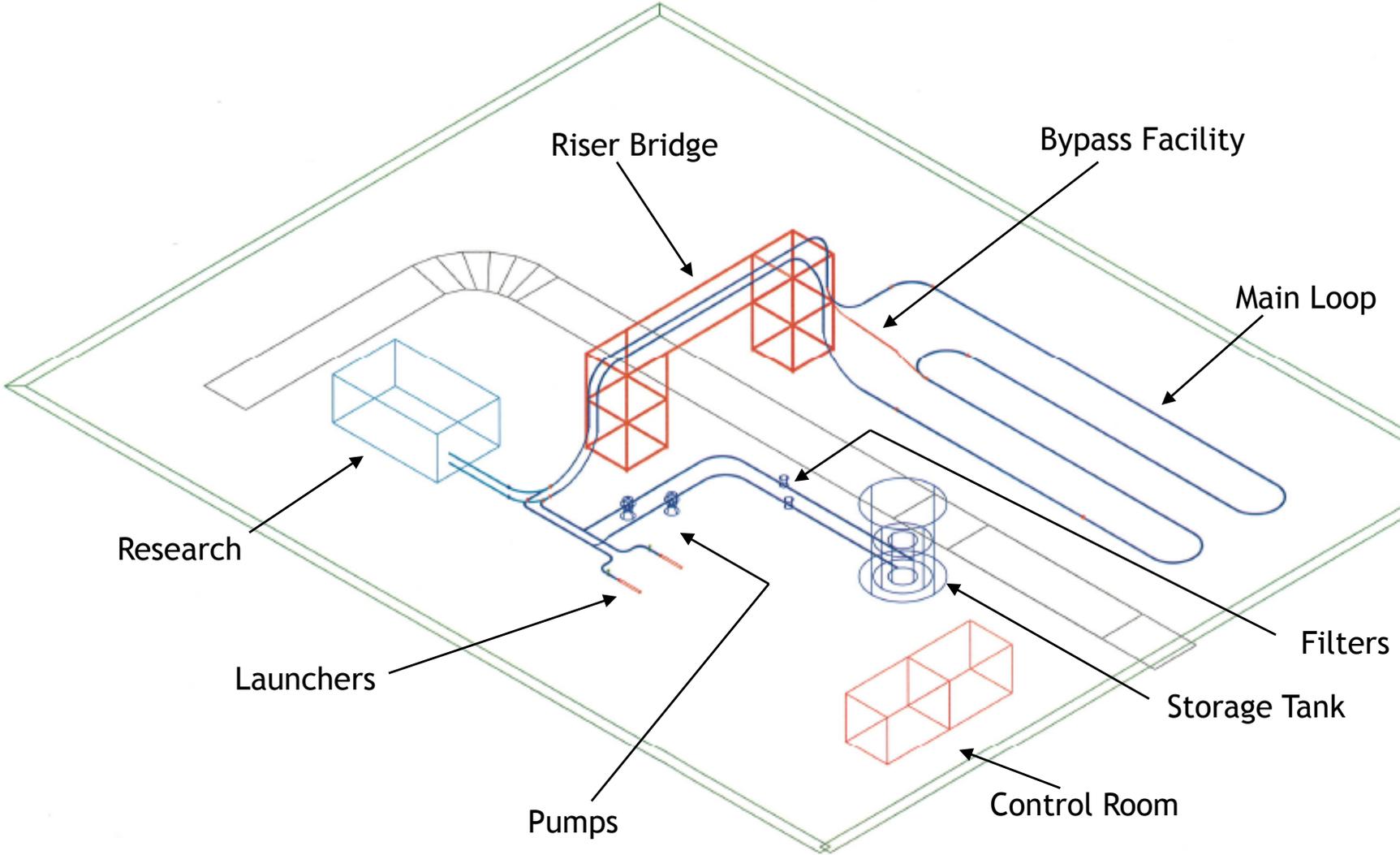
- Located at Petrofac Training, Montrose
  - 10” diameter - CL 150# - CS pipe - 1000m long
  - 2 no GD launchers / receivers
  - Salem SCADA system
  - Dedicated control room facility
  - Secured site operation (PTW/RA/MS)
  - Hands-on practical operational training focus
  - Research capability
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# Facilities



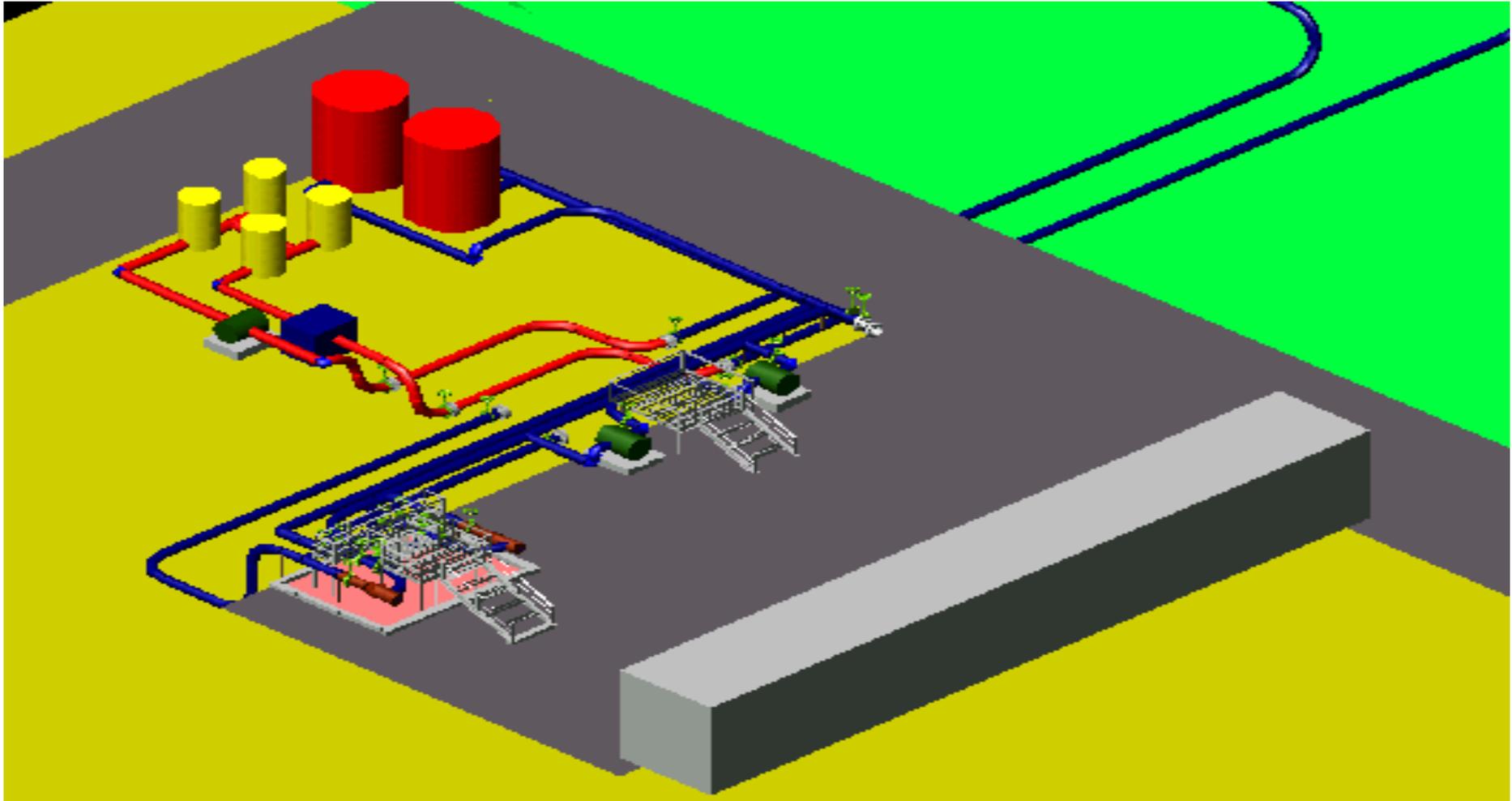
# Facilities

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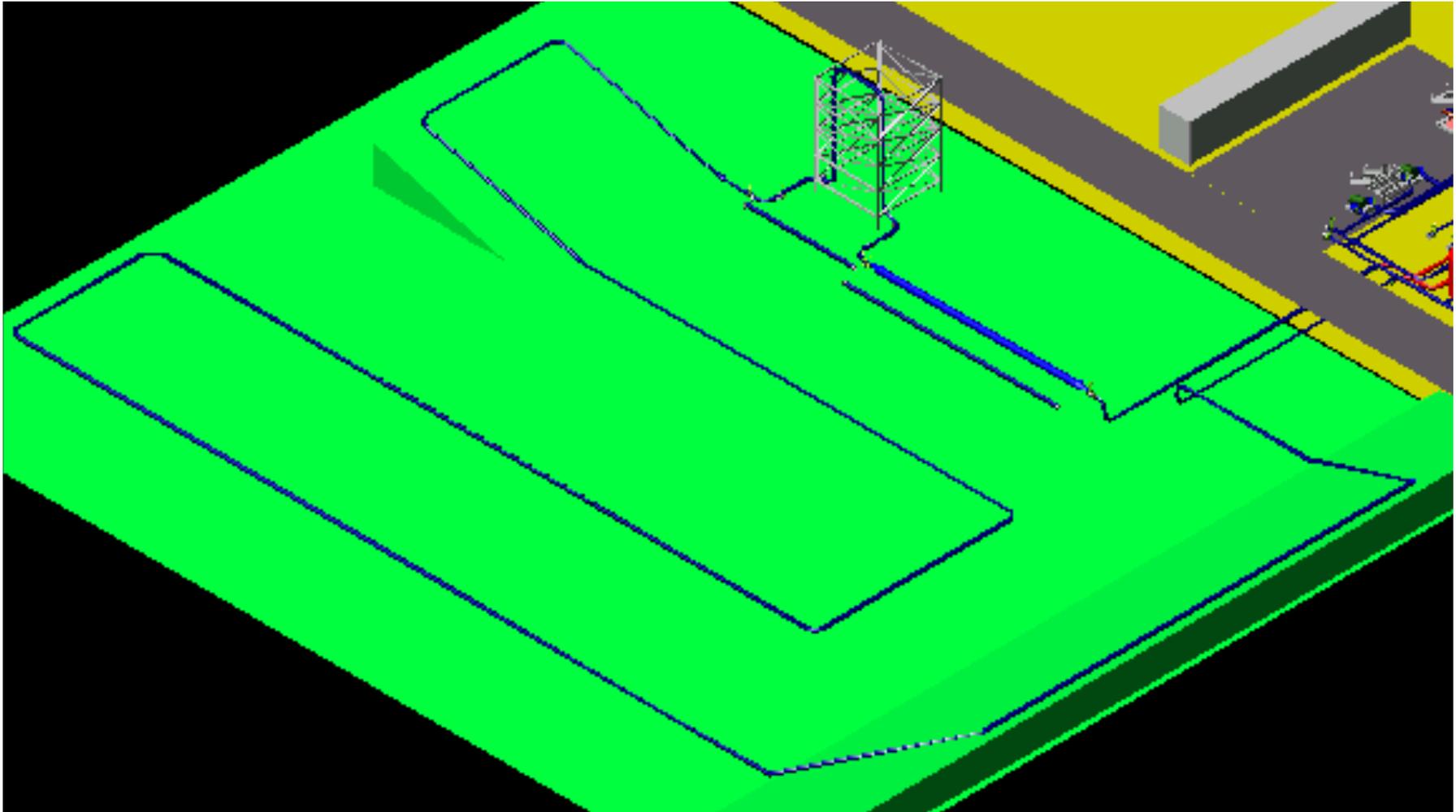
# Facilities

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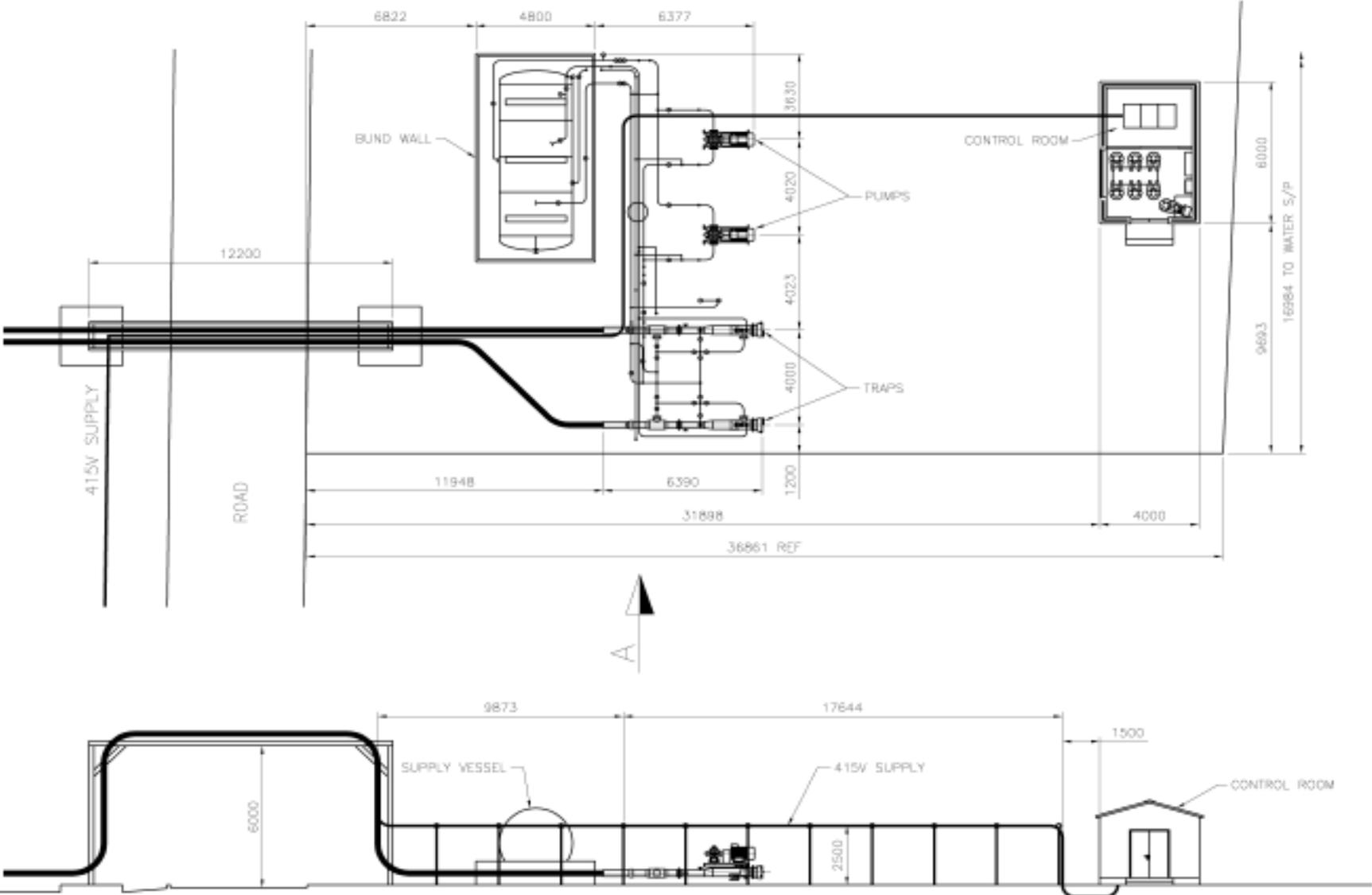
# Facilities

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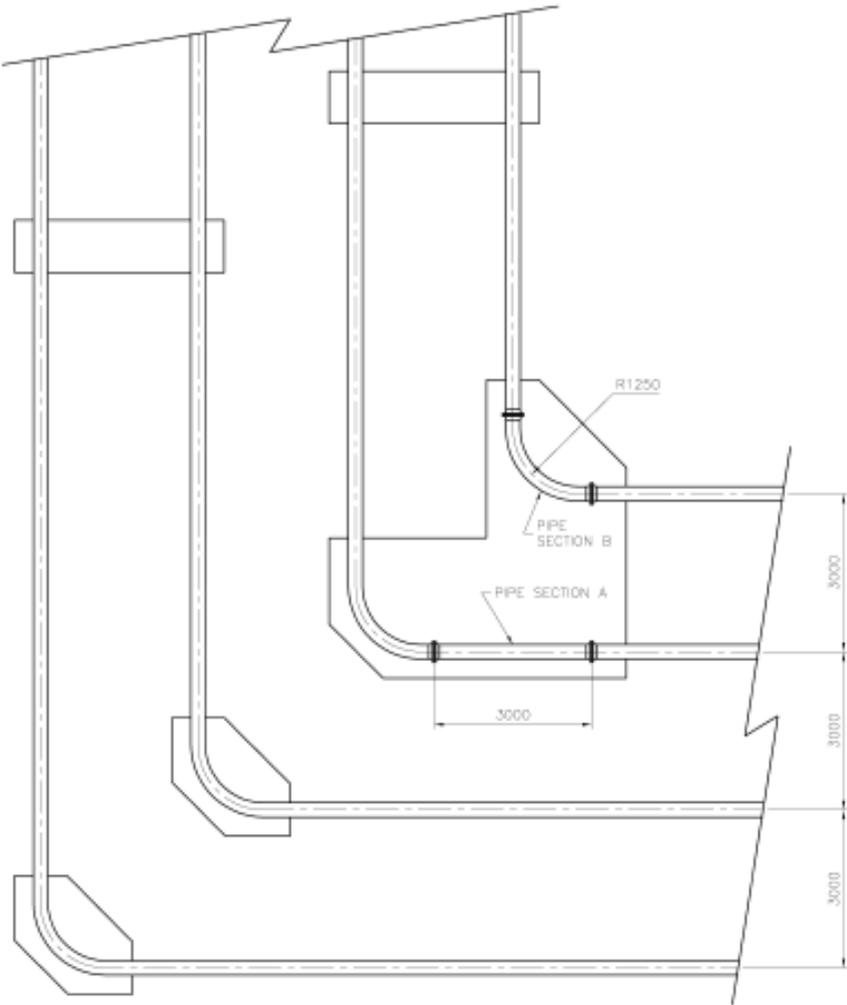




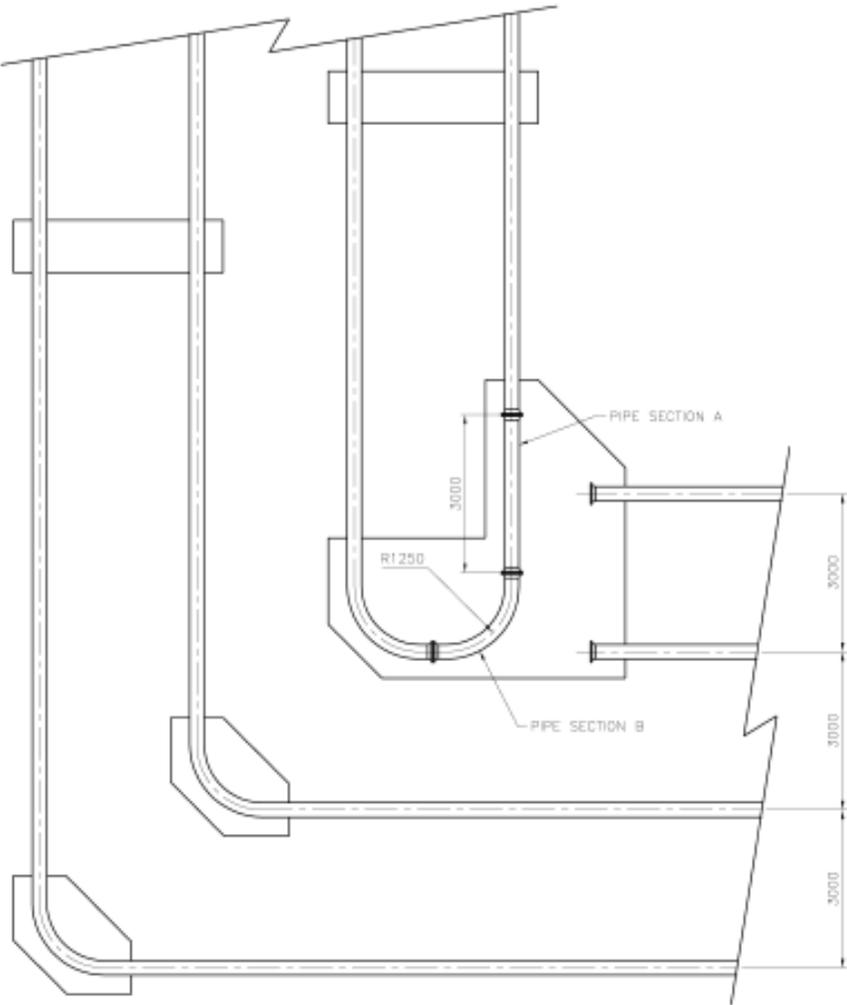
# Facilities



# Facilities



LOOP BYPASS NORMAL OPERATION  
(1km LOOP)



LOOP BYPASS INSTALLED  
(0.5km LOOP)

# Facilities



# Facilities



# Facilities

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- Control Room
    - purpose built
    - houses SCADA system & electrical switchgear
  - Fluid Storage
    - 2 x 45m<sup>3</sup> capacity
  - Filters
    - normal operation 50 micron particulate
    - 5 - 10micron capability
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# Facilities

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- Launchers / Receivers
    - large handling area
  - Research
    - dedicated area within facility
    - client owned equipment
  - Pumps
    - 93 to 450m<sup>3</sup>/hr flowrates
    - discharge pressure 7.5 barg
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# Facilities

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- By-pass facility
    - allows pipeline flow path to be altered
    - where full 1Km loop not required
  - Main Loop
    - 1000m overall length
    - additional break flanges installed
  - Instrumentation
    - temperature / pressure / flow
    - manual & actuated valves
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# Programme Schedule

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- **Construction & Commissioning**
    - commence 07/06      completion 10/06      (15 weeks)
  - **Course Development**
    - 12 new courses initially
  - **Industry Forum**
    - operators and service providers
    - first meet 18<sup>th</sup> July
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# Programme Schedule

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- Formal Open Day
    - scheduled for November
    - local dignitaries / invited Clients
  
  - Operational
    - first course scheduled for October 06
    - 12 courses in Q4'06
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# Target Market

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- Petrochemical
    - pipeline operators (Shell / BP / Talisman)
    - service contractors (Weatherford / BJ / S7 / Technip)
  - Utilities / Civils
    - operators (Transco / E.On / EDF)
    - minerals / aggregates (Lafarge / DeBeers / RTZ)
  - Research
    - FE establishments (RGU / C-MIST / UMIST)
    - industry bodies (PIG / MIRO / PPSA / UKOOA)
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# Courses

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- Pipeline Operations 5 day
  - Pipeline Pigging Operations 3 day
  - Industrial Pigging Operations 3 day
  - Pipeline Pigging Awareness 1 day
  - Pipeline Pre-Commissioning 4 day
  - Pipeline Pre-Commissioning Awareness 2 day
  - SCADA Systems Awareness 1 & 2 day
  - Corrosion Engineering Awareness 2 day
  - Process System Isolations 2 day
  - Process & Instrument Diagrams 1& 1.5 day
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