

JAPAN INTERNATIONAL COOPERATION AGENCY  
MINISTRY OF ENVIRONMENT  
THE REPUBLIC OF LITHUANIA

**STUDY ON THE SEWERAGE SYSTEM IMPROVEMENT  
OF  
BIRZAI AND SKUODAS TOWN  
IN THE REPUBLIC OF LITHUANIA**

**FINAL REPORT  
VOLUME IV  
(PRELIMINARY DESIGN DRAWINGS)**

**BIRZAI TOWN**

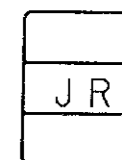
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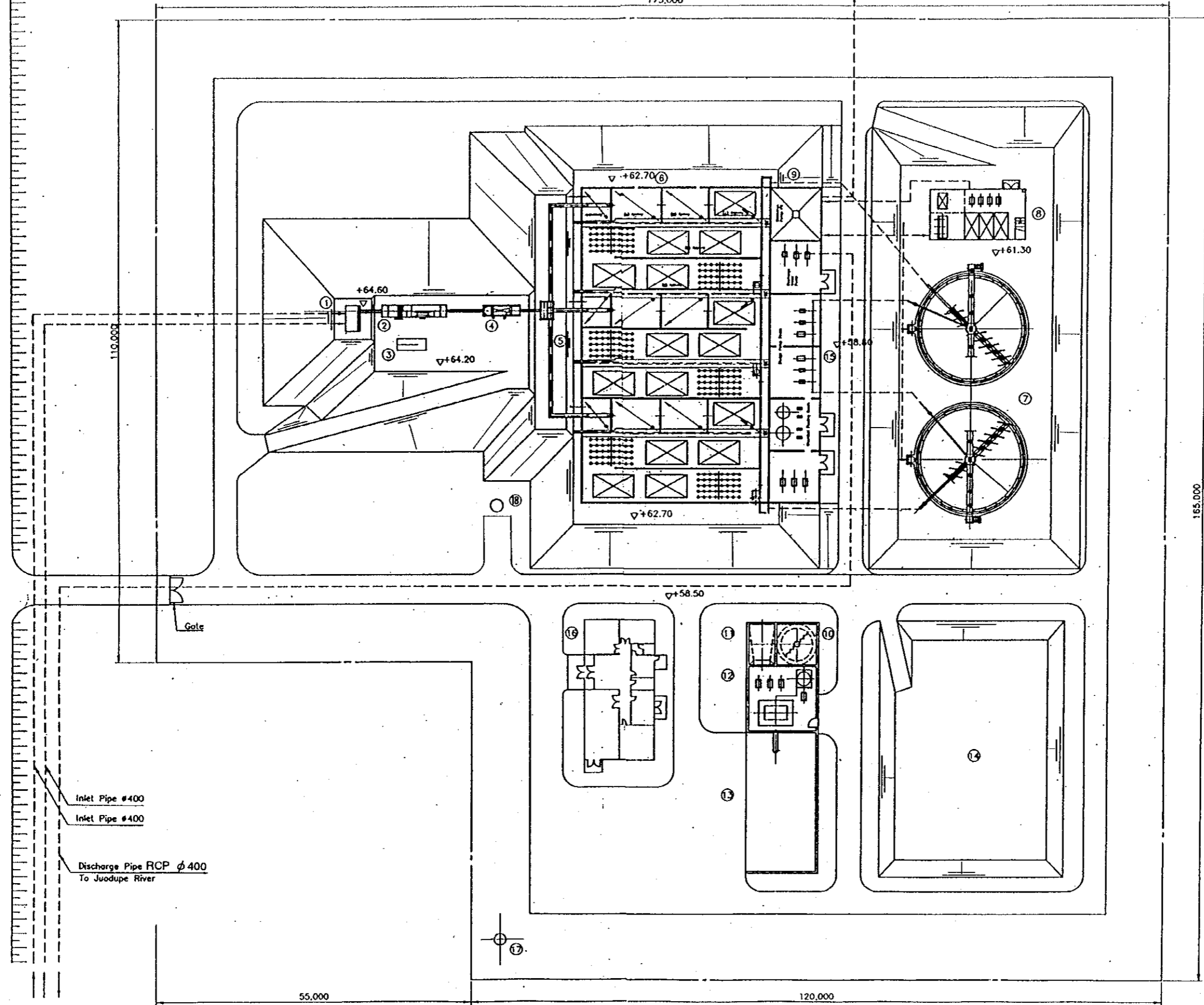
**FEBRUARY 1999**

**NIPPON JOGESUIDO SEKKEI CO., LTD.**



Emergency Discharge To Baronas River

175,000

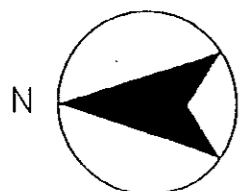


Item Of Facility

1. Receiving Well
2. Grit Chamber
3. Sand Bed
4. Parshall Flume
5. Splitter Box
6. Reaction Tank
7. Final Sedimentation Tank
8. Biological Membrane Filter
9. Discharge Pump Pit
10. Sludge Thickener
11. Sludge Storage Tank
12. Sludge Treatment Building
13. Sludge Stock Yard
14. Sludge Lagoon
15. Equipment Room
16. Administration Building
17. Deep Well
18. Septage Receiving Tank

Inlet Pipe #400  
 Inlet Pipe #400  
 Discharge Pipe RCP  $\phi$  400  
 To Juodupe River

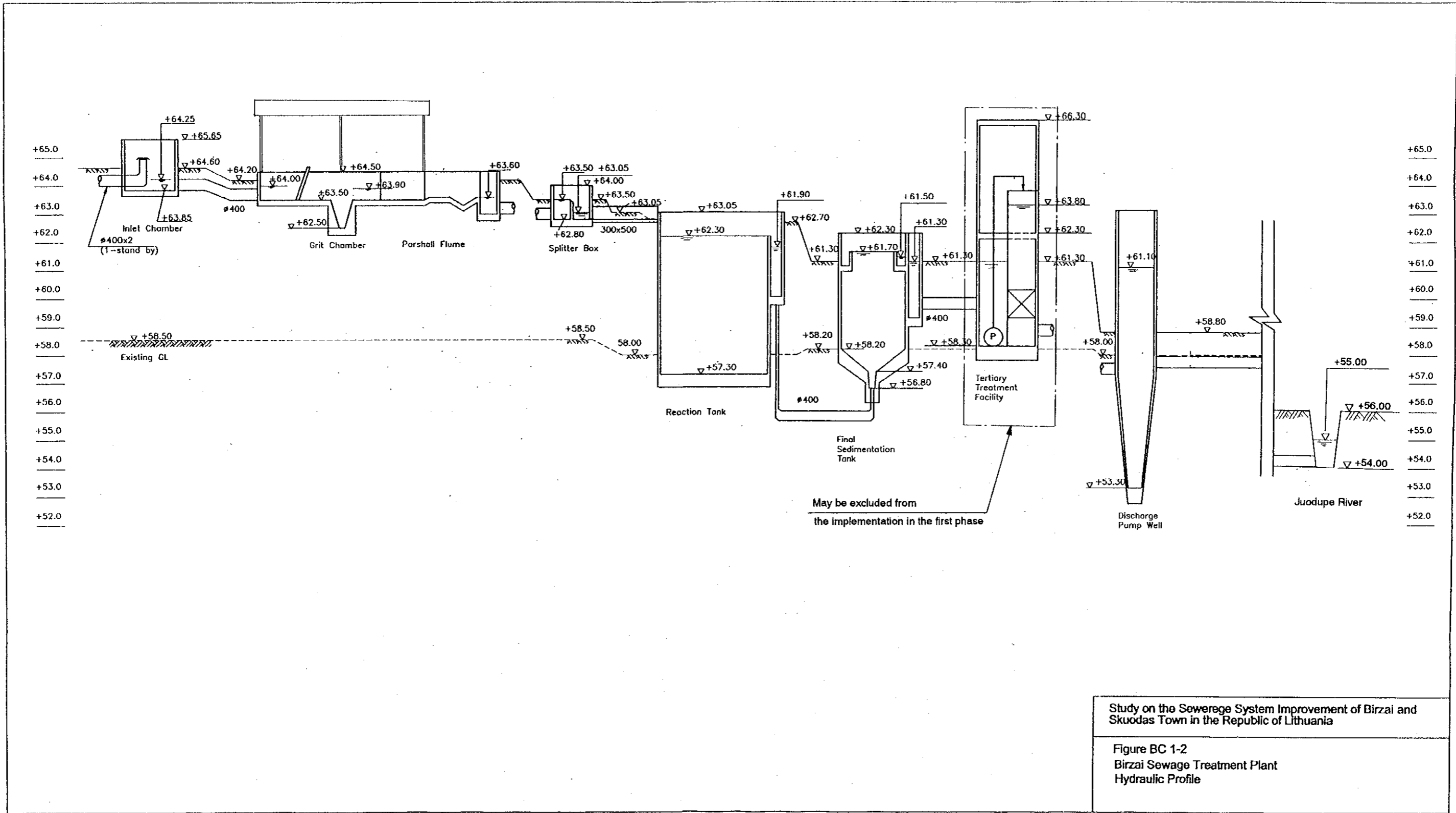
Gate



General Plan S=1/500

Study on the Sewerage System Improvement of Biržai and Skuodas Town in the Republic of Lithuania

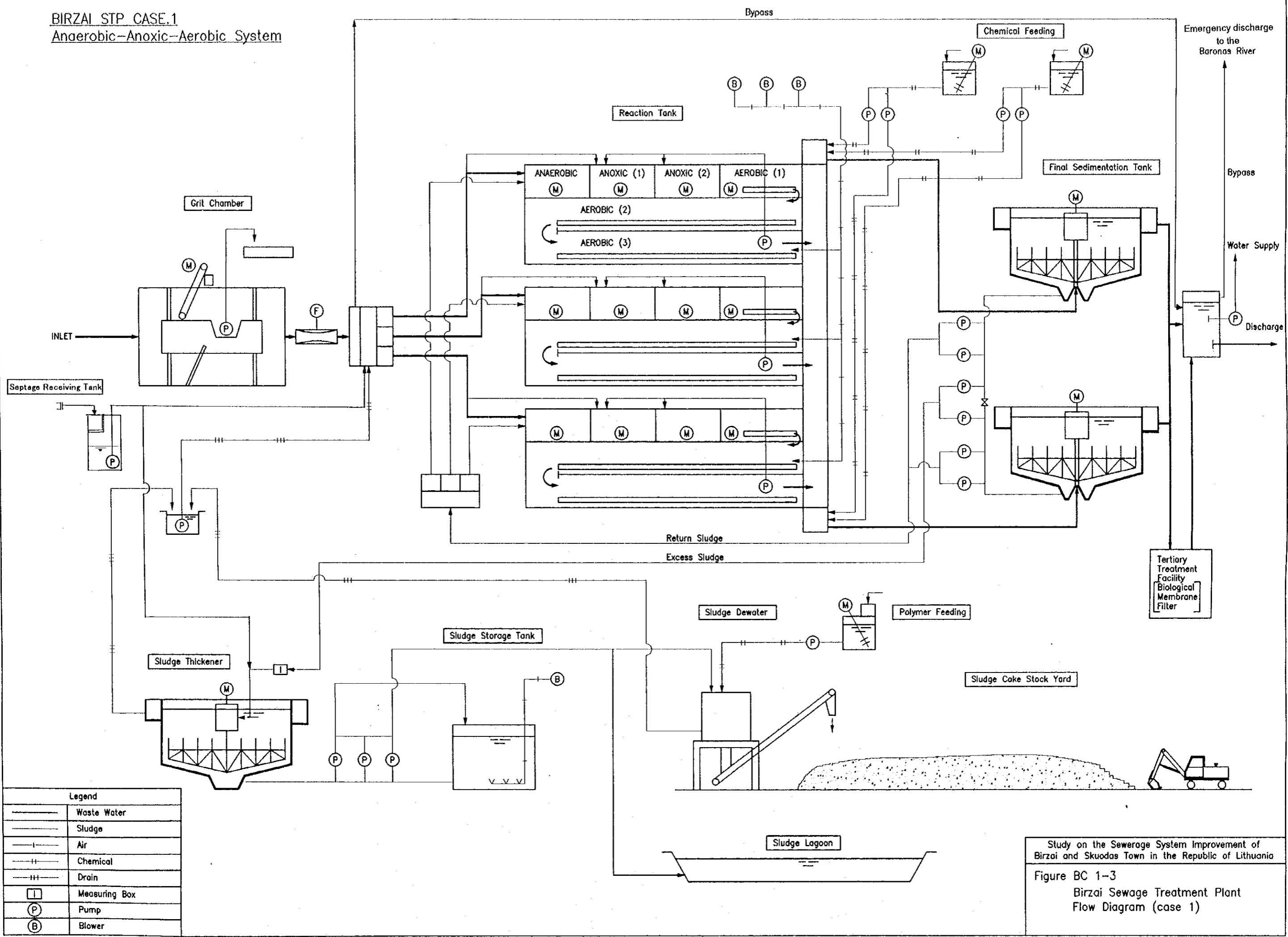
Figure BC 1-1  
Biržai Sewage Treatment Plant  
General Plan



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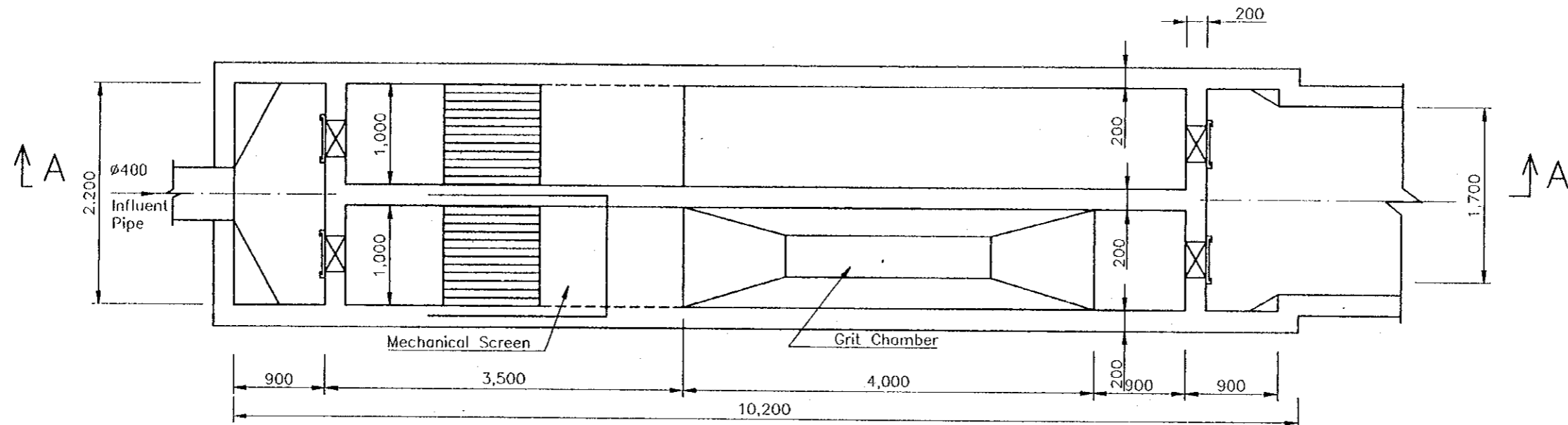
Figure BC 1-2  
 Birzai Sewage Treatment Plant  
 Hydraulic Profile

BIRZAI STP CASE.1  
Anaerobic-Anoxic-Aerobic System

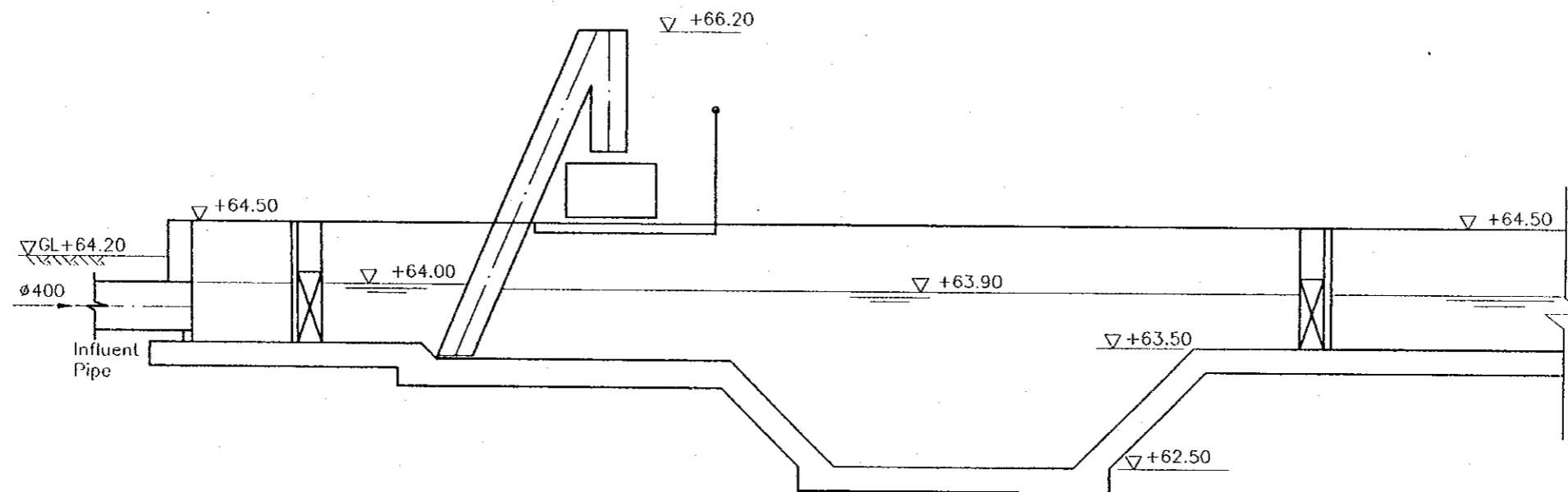


| Legend |               |
|--------|---------------|
| —      | Waste Water   |
| —      | Sludge        |
| —      | Air           |
| —      | Chemical      |
| —      | Drain         |
| □      | Measuring Box |
| ⊙      | Pump          |
| ⊙      | Blower        |

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Figure BC 1-3  
Birzai Sewage Treatment Plant  
Flow Diagram (case 1)



Plan S=1/50

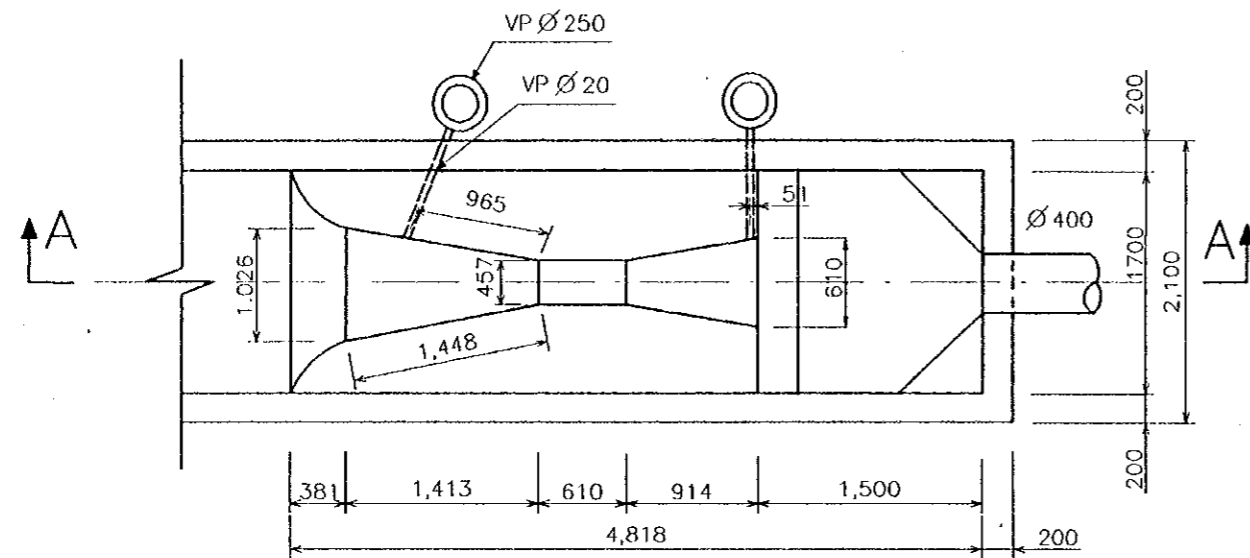


Section A-A S=1/50

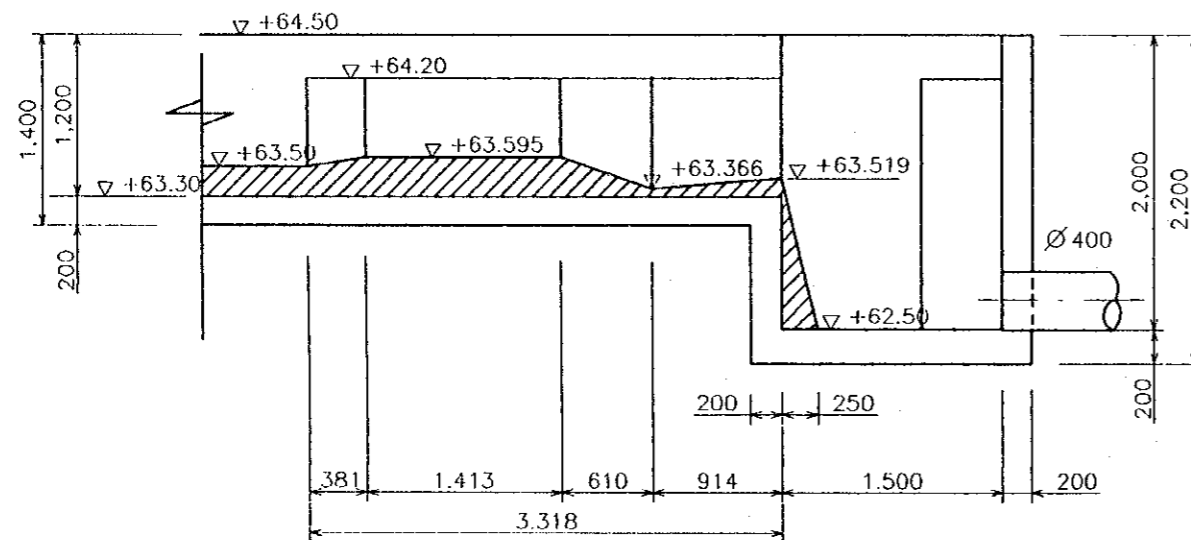
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Skudadas Town in the Republic of Lithuania

Figure BC 1-4  
Biržai Sewage Treatment Plant  
Grit Chamber

### Parshall Flume

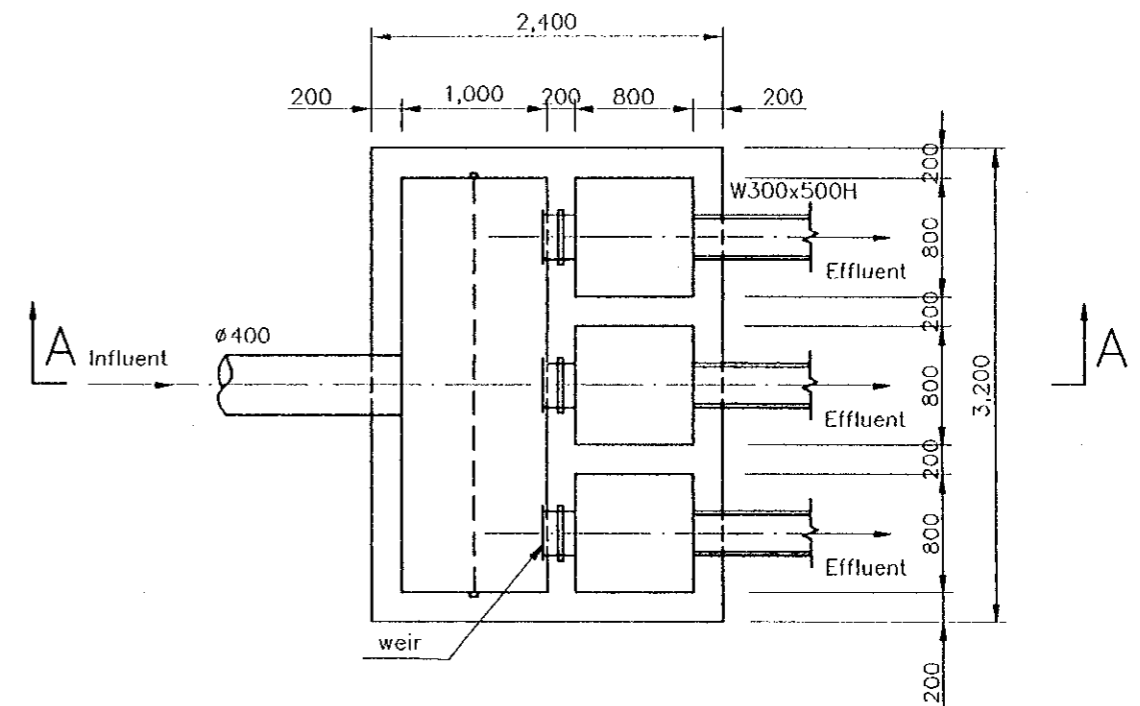


Plan S=1/50

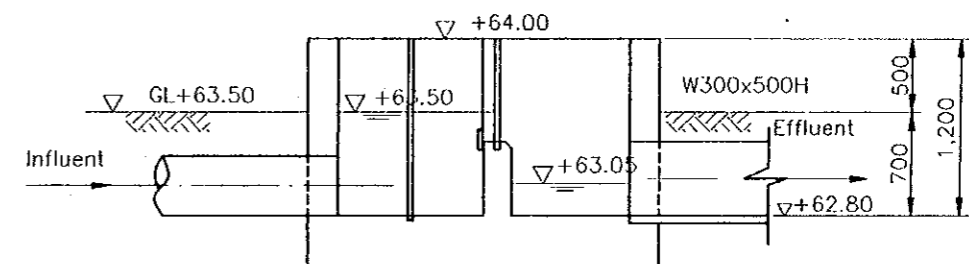


Section A-A S=1/50

### Splitter Box



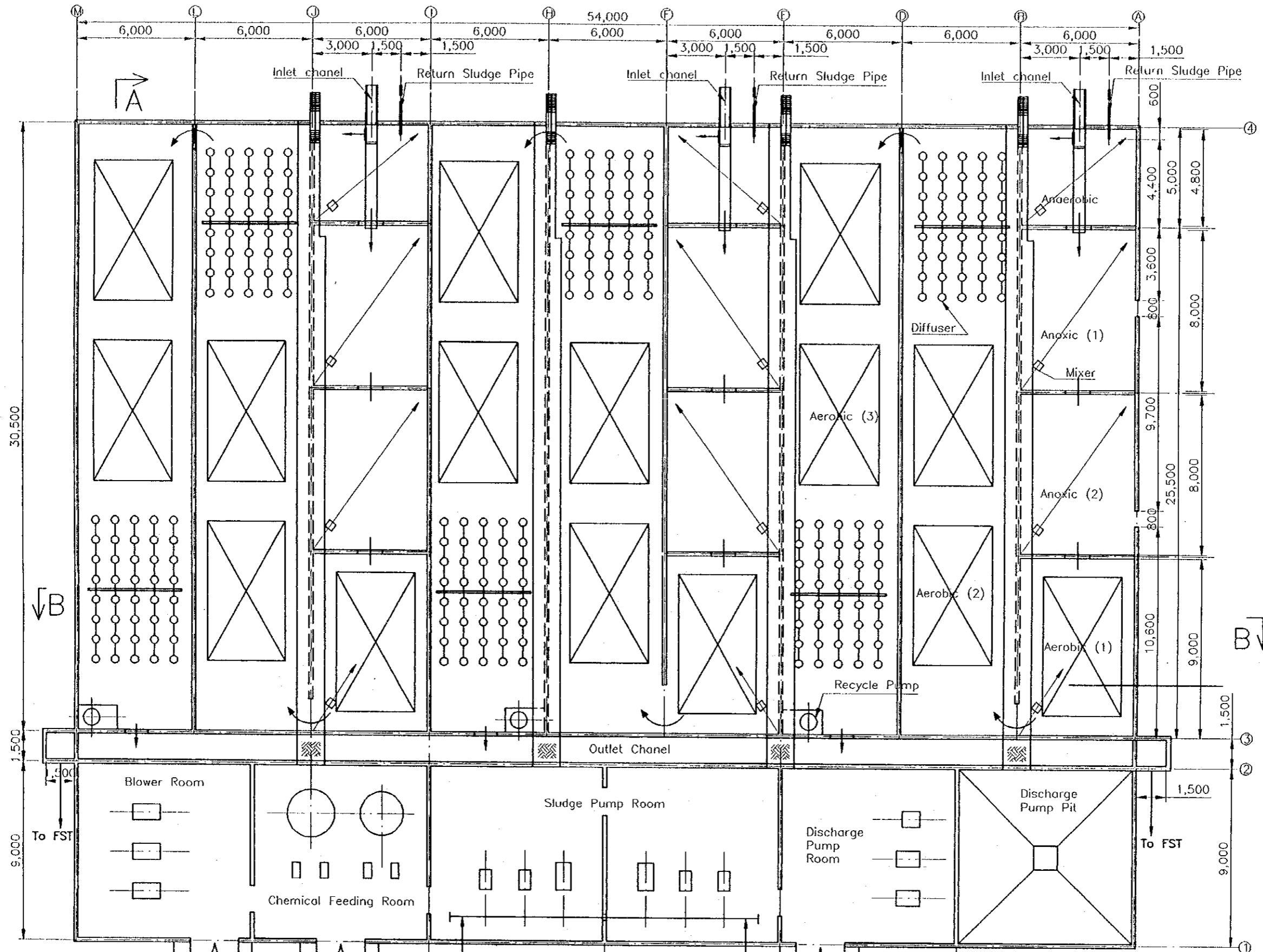
Plan S=1/50



Section A-A S=1/50

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Figure BC 1-5  
Biržai Sewage Treatment Plant  
Parshall Flume and Splitter Box

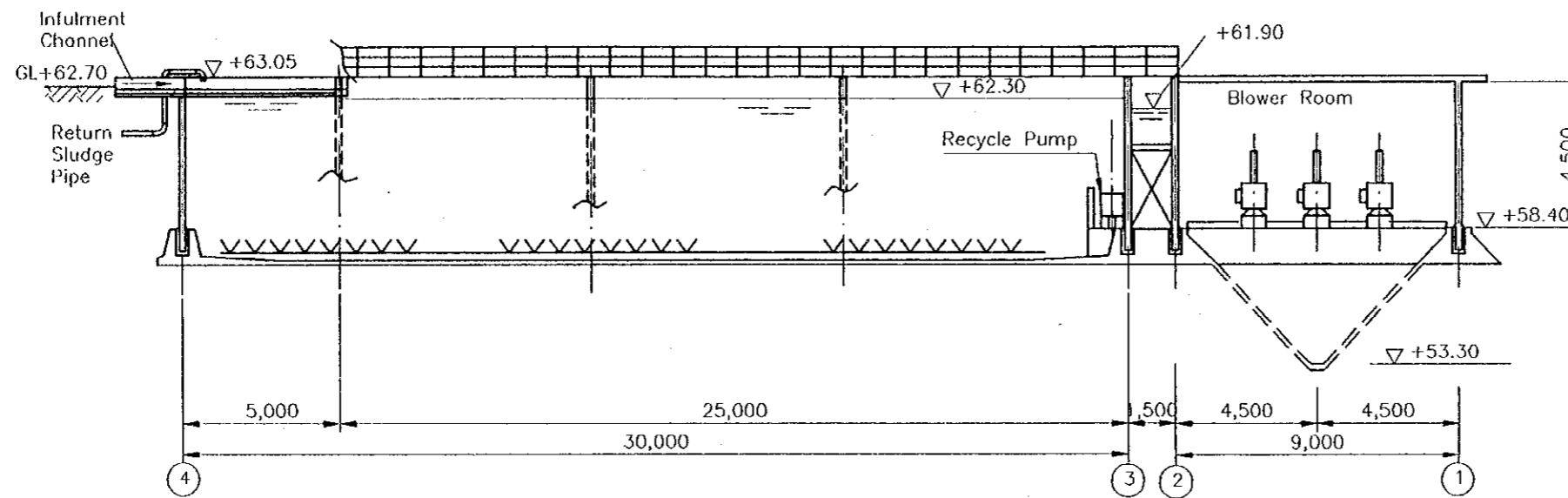


Plan S=1/200

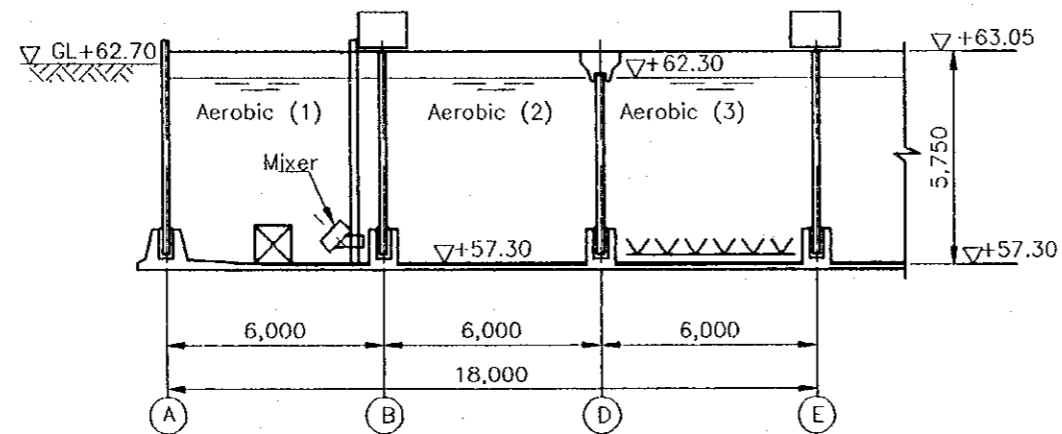
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Figure BC 1-6  
 Biržai Sewage Treatment Plant  
 Reaction Tank and Equipment Room (Plan)





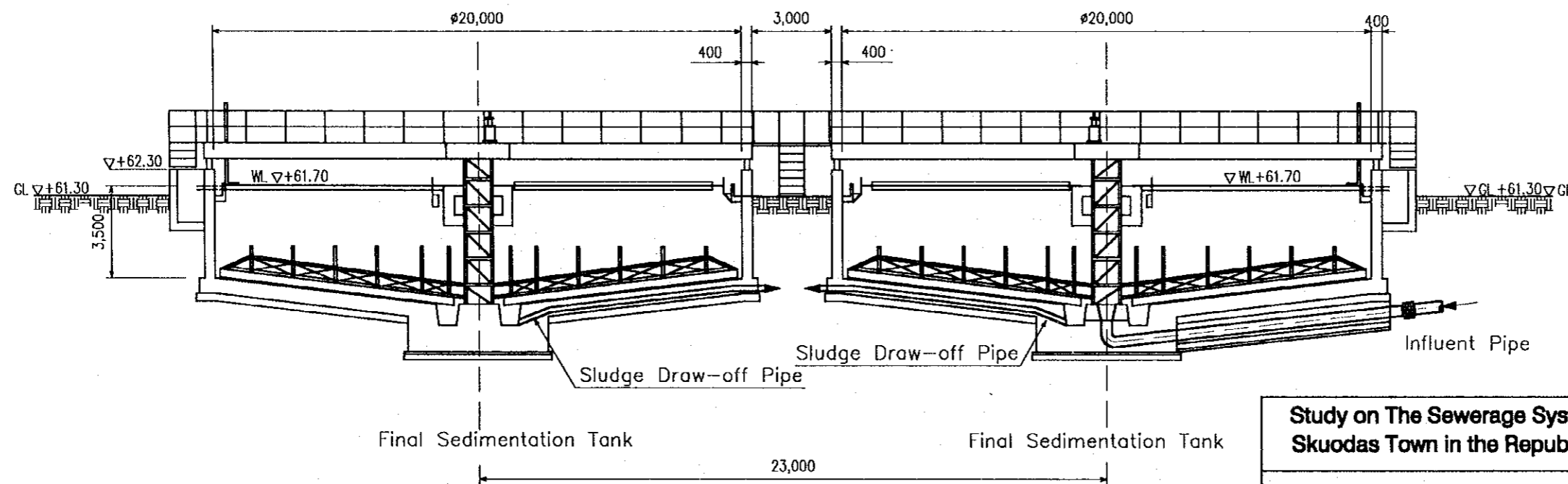
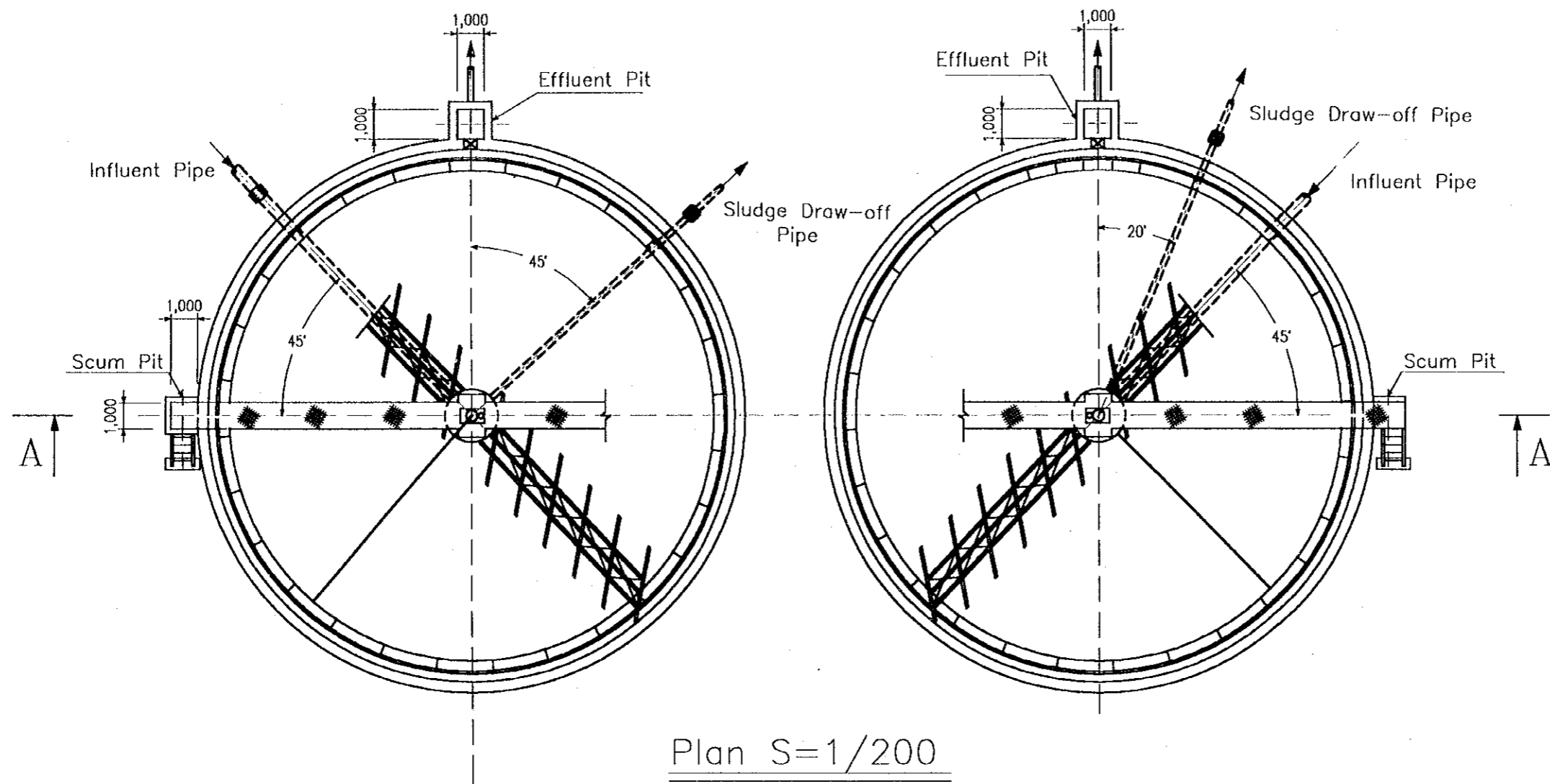
Section A-A S=1/200



Section B-B S=1/200

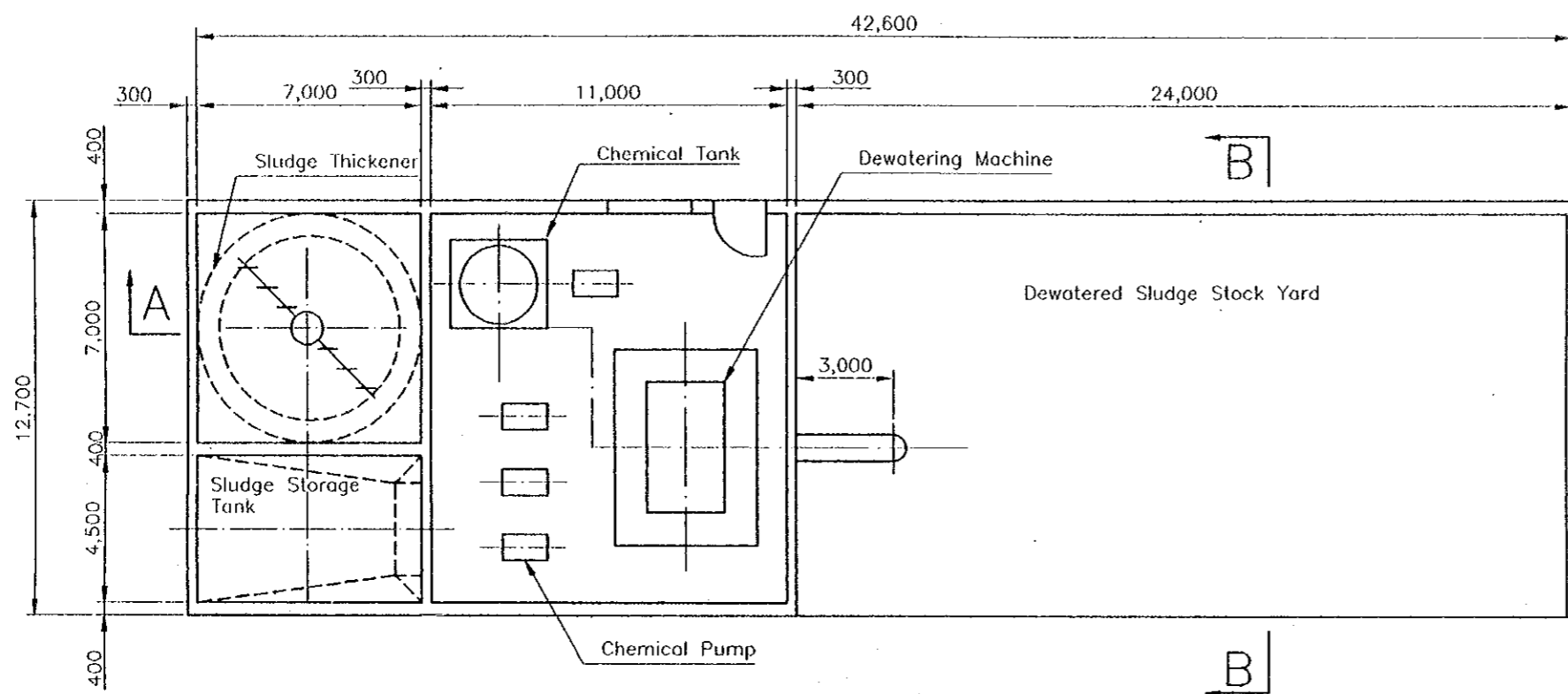
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Figure BC 1-7  
 Biržai Sewage Treatment Plant  
 Reaction Tank and Equipment Room (Section)

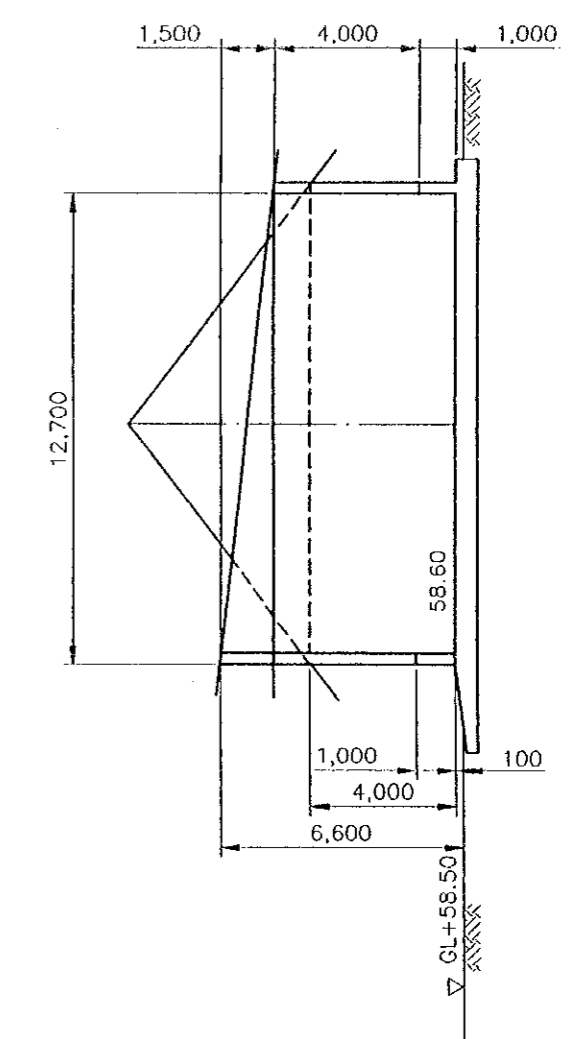


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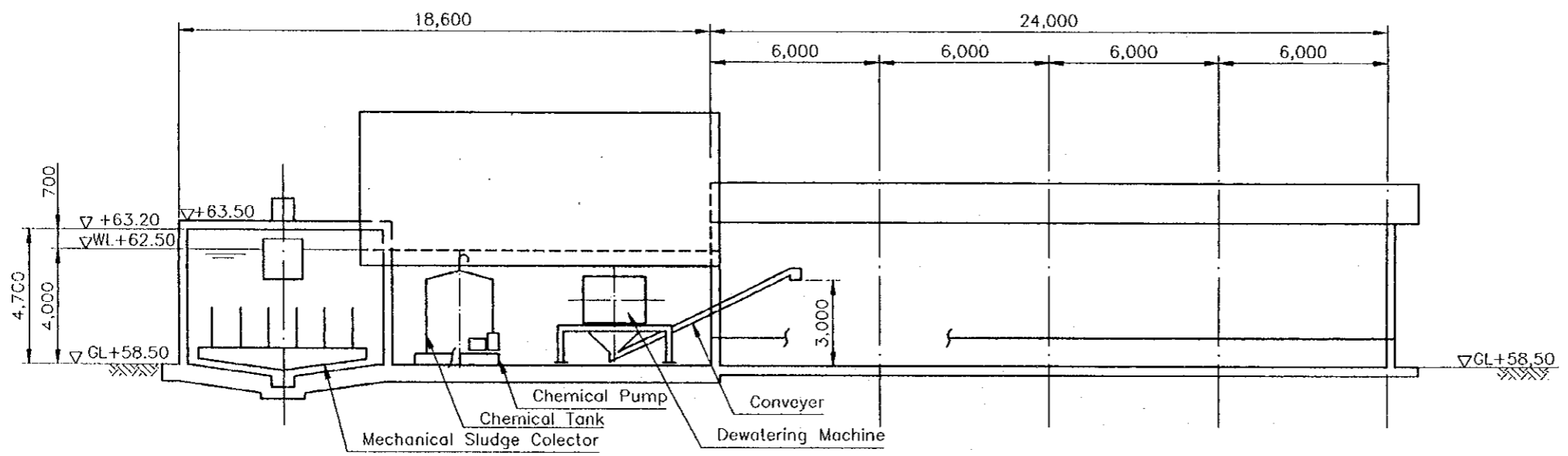
Figure No. BC1-8  
 Biržai Sewage Treatment Plant  
 Final Sedimentation Tank (Plan, Section)



Plan S=1/200



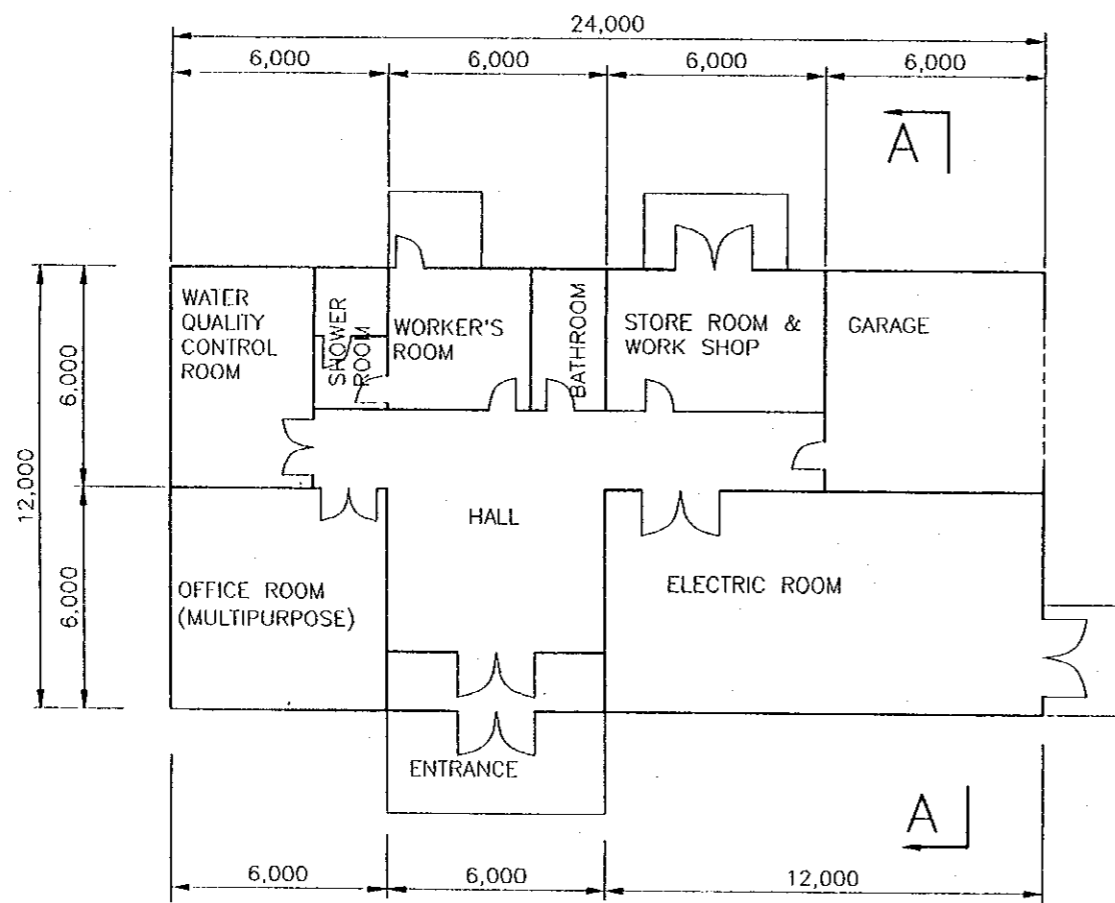
Section B-B S=1/200



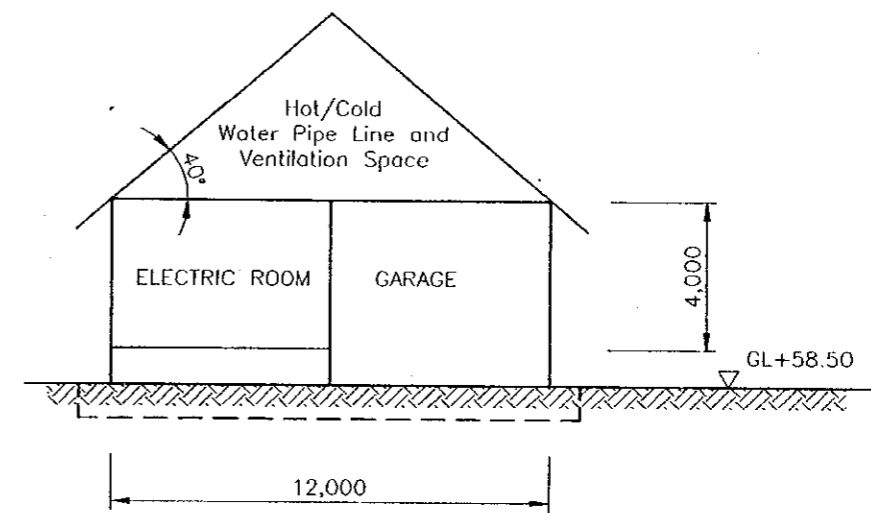
Section A-A S=1/200

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Figure BC 1-9  
 Biržai Sewage Treatment Plant  
 Sludge Thickener and Sludge Treatment Building



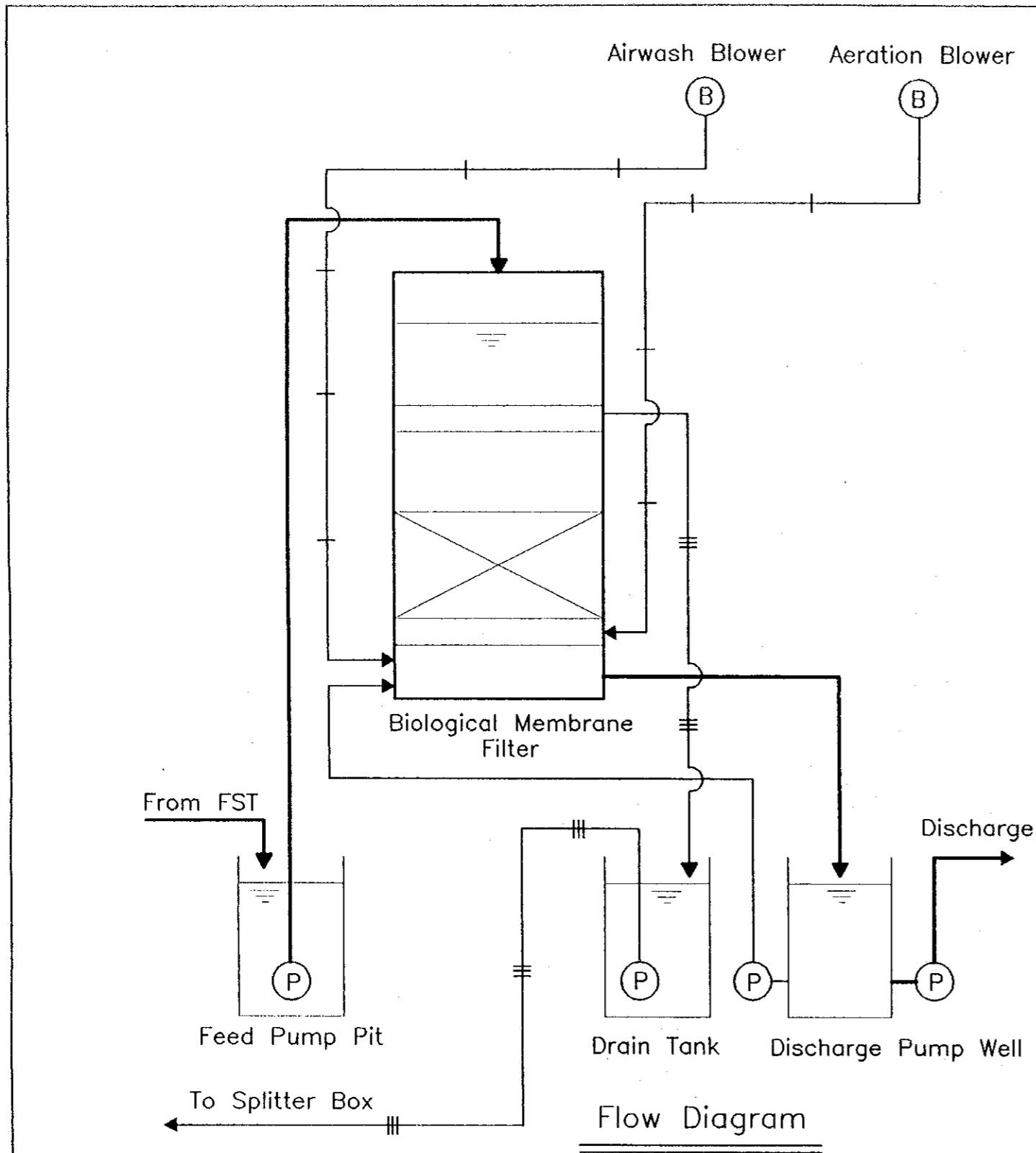
Plan S=1/200



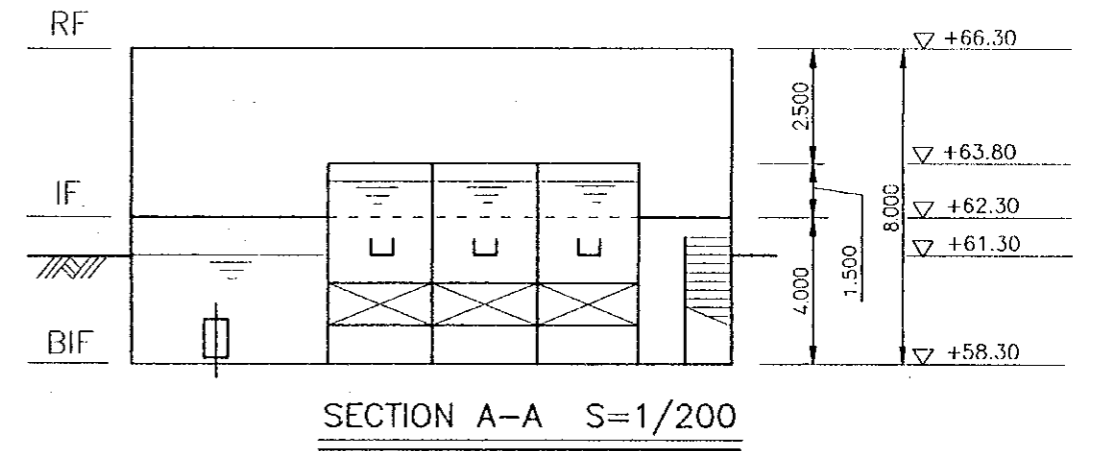
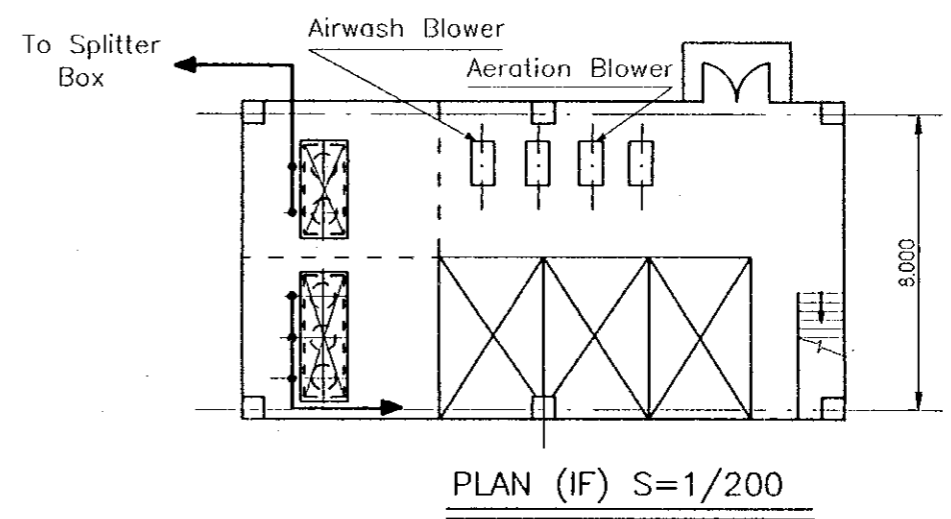
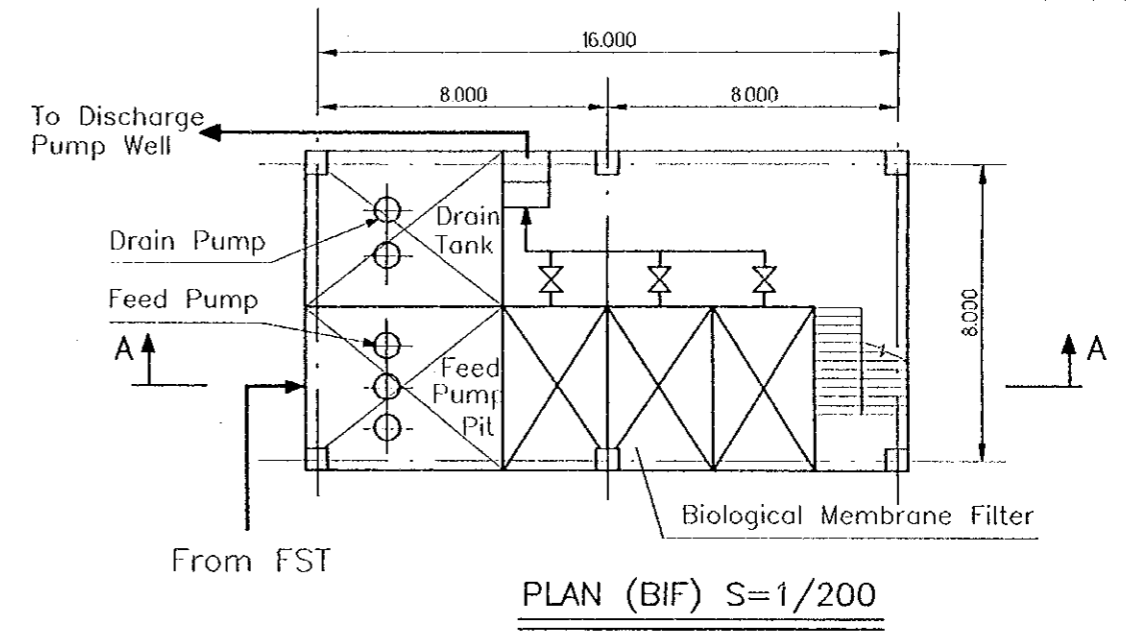
Section A-A S=1/200

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Skudodas Town in the Republic of Lithuania

Figure BC 1-10  
Biržai Sewage Treatment Plant  
Administration building



| Legend |             |
|--------|-------------|
|        | Waste Water |
|        | Sludge      |
|        | Air         |
|        | Chemical    |
|        | Drain       |
|        | Pump        |
|        | Blower      |



**Study on The Sewerage System Improvement of Biržai and Skuodas Town in The Republic of Lithuania**

**Figure BT1-1**  
**Biržai STP Tertiary Treatment Facility**  
**Biological Membrane Filter**



