
ANNEX A: STATEMENT OF WORK (SOW): REQUEST FOR PROPOSAL: RFP/HCR/KAD/SUP/2021/01

FOR THE CONSTRUCTION OF WATER DISTRIBUTION NETWORK IN EL LERI, SOUTH KORDOFAN, SUDAN.

1. Background

Generally, El Leri locality facing water shortage as 86% of the population does not have access to clean water sources. water El Leri wets distribution network considered the main support for the locality water distribution network, which covers the largest part of population, influx of south Sudanese refugee and economic migrant of gold miners to the areas has putting further pressures over the exiting limited water sources and further exacerbated the situation. this high gaps in access to safe water coverage justify the need extension of water network distribution line from Dumbolo tans to the ground water basin of western El Leri to ease the improve the water coverage ease the population suffering and promote peaceful coexistence between refugee and the host community.

UNHCR in partnership with WES in planning to respond to the humanitarian needs of about 45,000 vulnerable (including host communities and returnees) in EL leri through rehabilitating and extension of water network distribution line from Dumbolo tans to the ground basin of western El Leri.

2. General Information

2.1 Objectives, Purpose & Expected Results

The water network extension project aims to benefit approximately 45,000 affected communities in Western El Leri locality to have access to appropriate quantity and quality of safe drinking water, cooking, and good personal hygiene by rehabilitation and extension of the water distribution network, construction of water storage facility and installation of power source.

2.2 Location and Description of the Assignment

- All the projects will be in Elleri locality.
- The works will comprise the following:
 - i. supply materials and Labor for construction of additional 50m² foundation for the existing outlet well.
 - ii. Supply and installation of new generators 30 KVA =26 prime mover 30 KVA, Perkins or equivalent 21.6 KW 3 phase, rated power factor 0.8.
 - iii. Construction of generator rooms 3m length* 3m width *3m Hight out of burnt brick and ordinary zenick sheets.
 - iv. Supply and installation of 2-inch submersible pump Q=10m³ and H=25m the cost including all necessary fittings associated to the submersible pump.
 - v. Provide necessary materials and Labor and laid distribution pipeline 4-inch HDP4 10 bars from pressure/sand filters to the ground water tant.
 - vi. Supply and installation of pressure sand filter with all necessary fittings and accessories (Q =25-50 M³/h).
 - vii. Rehabilitation of pipe networks, supply, and installation/connections of water pipes of various diameters, construction of manholes, etc
 - viii. Provide material and Labor for construction of reinforced concrete water storage tank 250 cubic meter capacity using of 16 mm reinforcement iron bar, gravel, cement, and sand, with mortar ration of 1:2:4
 - ix. Provide and installation of poster pump (Q30-50 cubic meter/h and H= 30-50h) for posting clean water

from filter unit to the ground water storage tank

2.3 Deliverables

- The contractor shall submit samples of the materials used in the project UNHCR for approval before using them in the work.
- UNHCR may reject any material that does not comply with the described specifications in the BOQs and item 3 of this TOR (Location and Description of the assignment), in which case the contractor without any extra cost should replace the failed materials. UNHCR or the delegated Supervision Committee can ask for any test to ensure the quality of the material used and work. Only approved materials and workmanship should be used.
- UNHCR shall make any variation in the form of quality or quantity of the works that may in its opinion be necessary and for that purpose or if for any other reason, it shall have the power to order the contractor to do and the contractor shall do any of the following:
 - A. Increase or decrease the quantity of any work included in the contract.
 - B. Omit any work included in the contract.
 - C. Change the character or quality, or kind of any work included in the contract.
 - D. Execute additional work of any kind necessary for the completion of the works. And no such variation shall in any way violate or invalidate the contract but the value (if any) of all such variations shall be considered in ascertaining the amount of the contract price. No such variation shall be made by the contractor without an order in writing by UNHCR who shall determine the amount (if any) to be added to or deducted from the sum named in the tender in respect of any extra or additional work done or work omitted by its order. All such work shall be valued as follows:
 - E. Where there are rates for comparable work in the bills of quantities such rates are to be used.
 - F. Where no such comparable rates are available from the bills of quantities UNHCR shall determine such rates as it considers fair and reasonable, due allowance shall be made for the market value of articles purchased, the intricacy and the location of the work involved and the current value of similar work in other contracts.
- Should the contractor fail to fulfil any of his obligations under the contract, UNHCR may in the absence of any other remedy provided under the terms of the contract and after giving the contractor seven days' notice in writing of its intention so to do cause such obligations to be carried out by other persons or contractors and deduct the costs incurred from the moneys due or payable to the contractor or UNHCR may recover them as a debt from the contractor and in such case UNHCR shall certify the reasonable costs incurred.
- There will be no variation in the contract price as a result of any variation in the costs of materials for permanent or temporary works or of consumable stores fuel or power or in the rates of wages or allowances payable to or in respect of Labour or as a result of any changes in the Labour employment conditions or as a result of the introduction or operation of any law statute or order.
- The Contractor shall be responsible for preparation and actualization of detailed Health & Safety and Accident Prevention Plans, Detailed Time Schedules and Cash Flow Estimates, site Protection and ensure people and traffic mobility.
- The Contractor shall transport and, on his expense, all demolished rubbles and exceeded building materials to locations minimum distance of 2-3 km or as specified by the municipality and shall be responsible for cleaning out the site and it is surrounding areas at the end of usage.

3. Contractor Requisites

3.1 Experience

The contractor shall have done a similar number of works or projects. The similarity should be within the size and the nature of the requested works in this SOW. The pervious contractor's client can be UN agency, NOGs, governmental organization, or large-scale private sector companies, and they should be able to provide a reference for the contractor.

3.2 Minimum Staff

The contractor shall appoint a qualified project supervisor with at least five years of professional experience to work full time in supervising the implementation of work during the whole contract and warranty periods, and both the contractor and his engineer should work closely with the Supervision Committee members nominated by Nineveh Water Directorate and UNHCR to appoint engineers to supervise the implementation of the works.

The contractor shall appoint qualified construction/water supply Engineer with at least five years of professional experience in installation and operation of filtration unit, construction of water storage tank, poster pump and the generator and to be daily monitoring of all the ongoing activities.

3.3 Financial capability

The contractor shall provide balance sheets, income statements, and bank statements for the previous (03) three years, demonstrating financial stability and capability to implement the project.

3.4 Minimum equipment

The bidder shall own or have access to all necessary number equipment needed to undertake the works. The availability of the required equipment should be checked before launching the operations.

3.5 Administrative

- The bidder shall attend a meeting organized by UNHCR to explain any question raised by the bidder in relation to the project. UNHCR shall notify the bidder of the dates in pre bidding meeting.
- Interviews if necessary, indicating for which experts/position (in general, the evaluation of experts is conducted based on their CVs).
- Whenever possible, bidder should be requested to provide an all-inclusive cost in the financial proposal.
- Bidder should be reminded to factor in all cost implications for the required service / assignment
- When travel is expected as part of the assignment, it shall be clearly specified (e.g. location, duration, number of journeys ...etc.) in the SOW.
- Bidder shall be required to include the estimate cost of travel in the financial proposal. It is essential to clarify in the SOW that travel cost shall be calculated based on economy class travel, regardless of the length of travel and ii) costs for accommodation, meals and incidentals shall not exceed applicable daily subsistence allowance (DSA) rates, as promulgated by the International Civil

4. Bill of Quantity (BOQ)

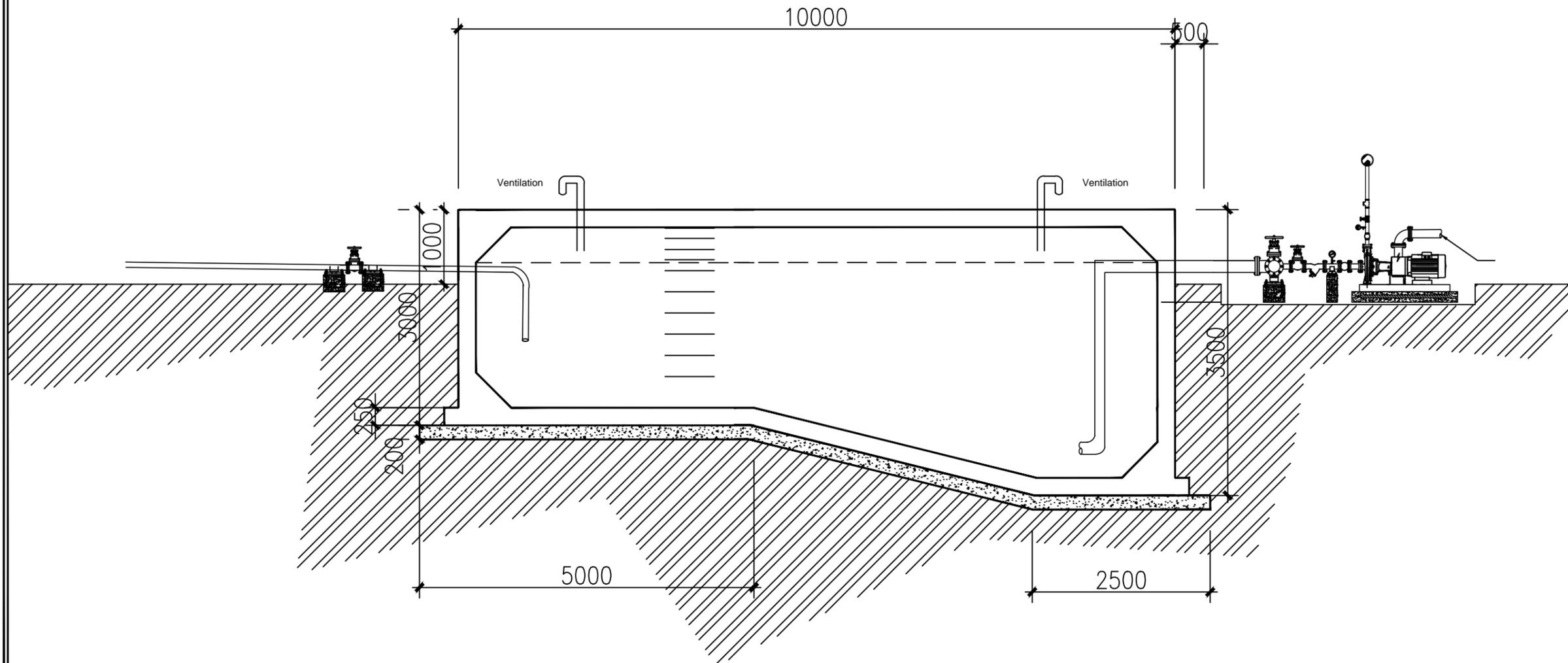
item	Description	Unit	Quantity
1	Provision of material and Labour for construction of additional 50-meter square foundation for existing outlet well	M2	50

2	Supply and installation of 2-inch submersible pump Q=10m ³ and H=25m the cost including all recessing fittings	no	2
3	Supply and installation of pressure sand filter with all necessary fittings and accessories (Q =25-50 M ³ \h).	no	1
4	Supply and laid pipeline with 4inch HDPE 10 BAR from filter to the ground water tank the cost including (digging – coining with all fittings)	m	4470
5	Supply and installation of 30 KVA, Prime kW 24 generator equivalent to Perkins	no	1
6	Provide material and for construction Generator room 3m width*3m length *3m H out burn bricks and ordinary zinc sheets	Job	
7	Supply and installation of poster pump Q= 30-50m ³ \h, H= 30-50h to post water from filter to underground water tank (NO	2
8-1	Provide necessary material and Labour for construction of reinforced underground water storage tanks 250m ³ capacity out of 16mm reinforcement iron bar and concrete ratio of 1:2:4	M3	175
8-2	Provision of materials and Labour for construction of 180-meter square Plane concrete	M2	180

5. Site Drawings:

Below pages, are 5 sets of the site drawing. They are as follow:

1. Technical design of the pipeline 1
2. Technical design of the pipeline 2
3. Technical design of the pipeline 3
4. Technical design of the pipeline 4
5. Technical design of the pipeline 5

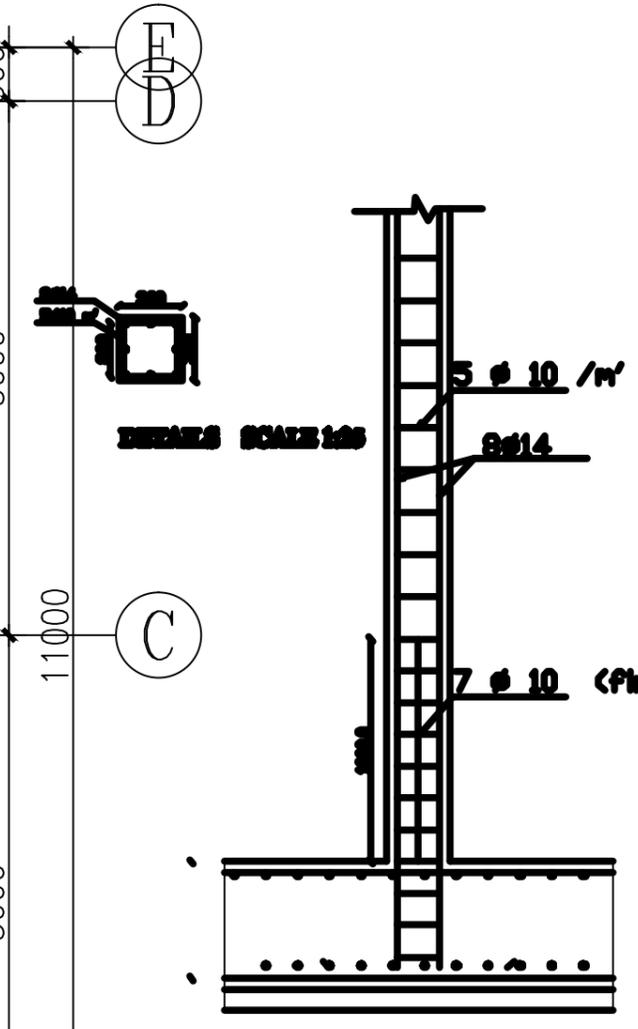
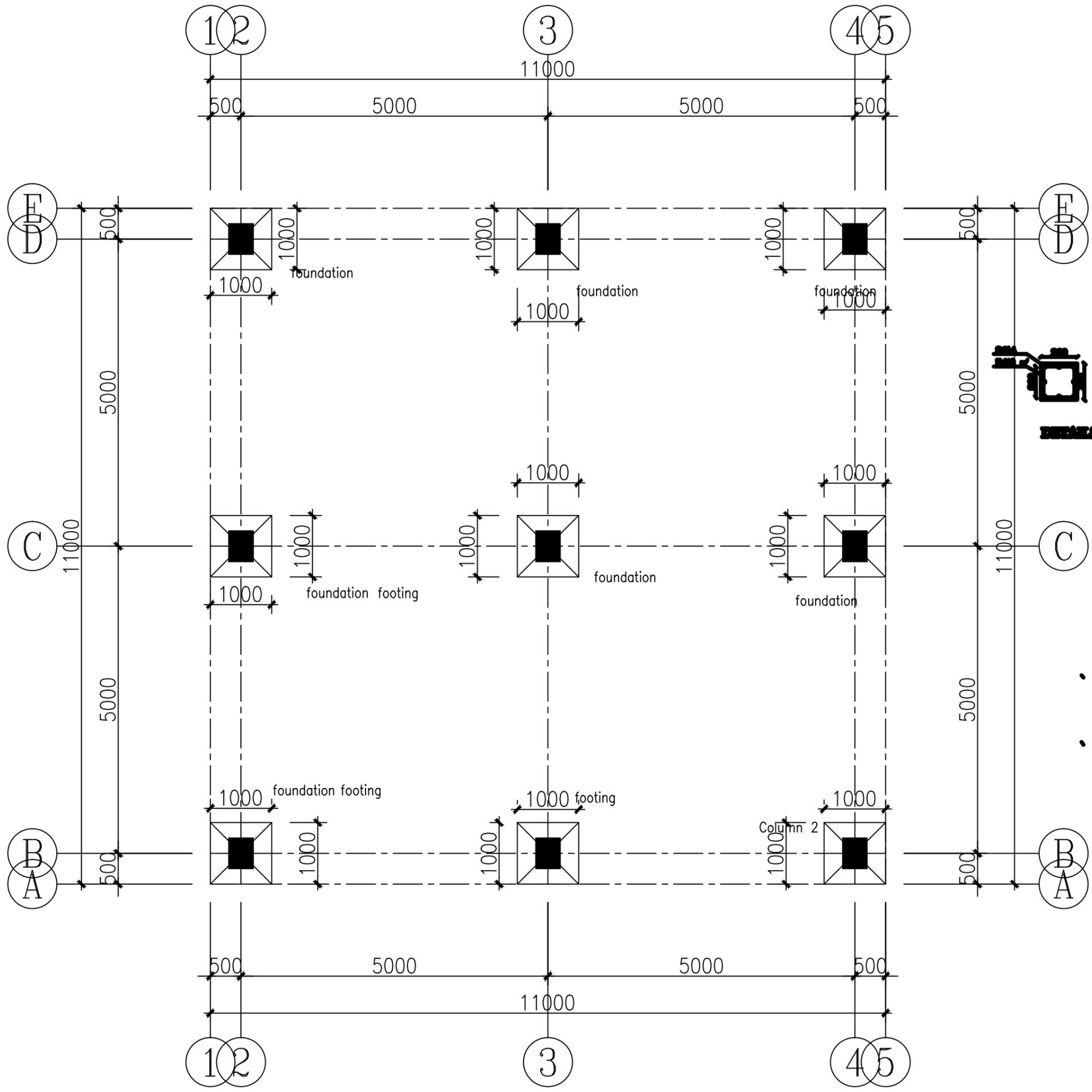


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مشروع
 انشاء خزان
PIPE LINE PROJECT

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رقم المخطط:	مقياس الرسم:



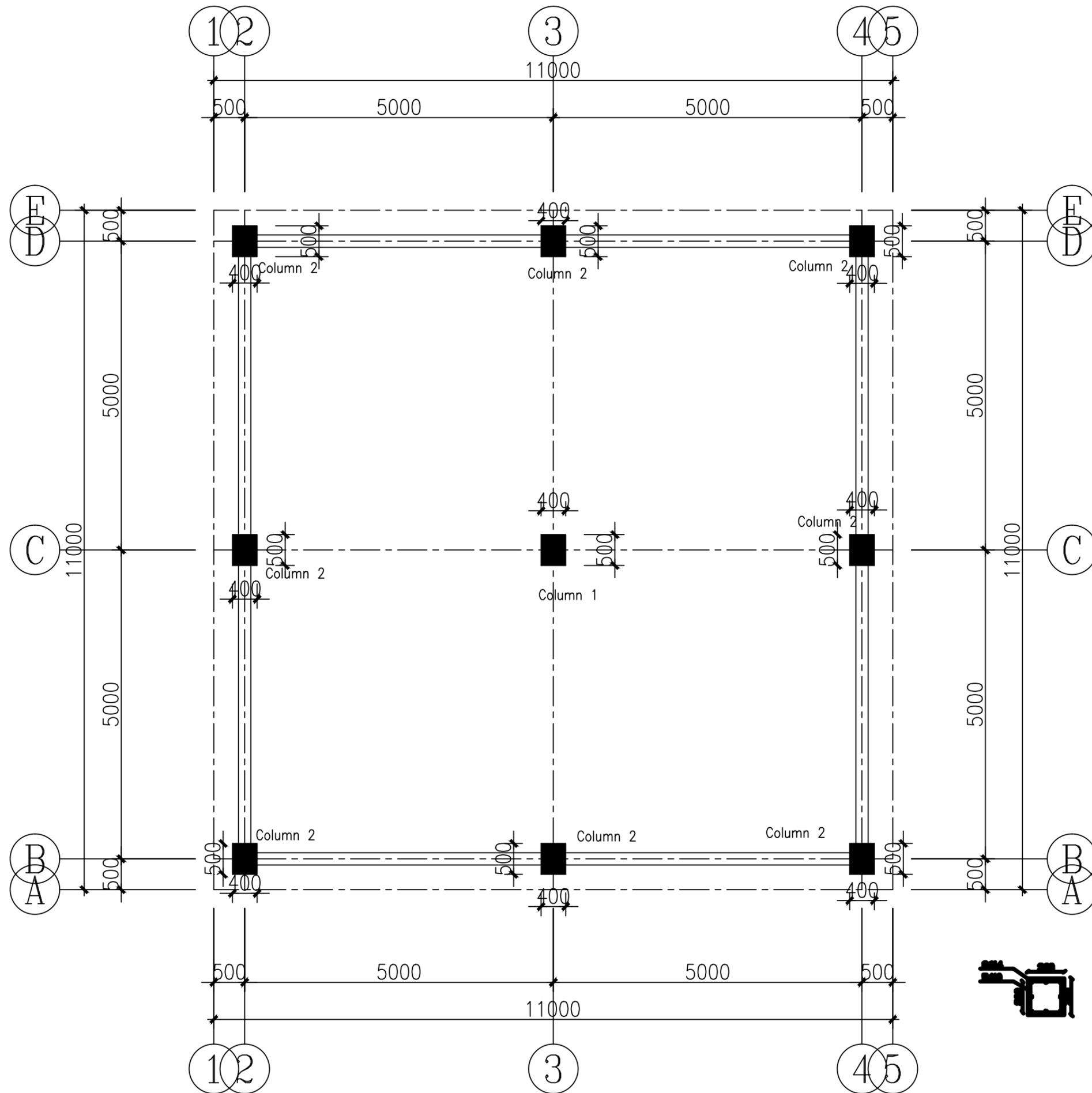
**(TYP) DETAIL FOR
COULOUN AND RAFT CONNECTION**

Rev. no.	Date	Description	Drw.	Checked



PIPE LINE PROJECT

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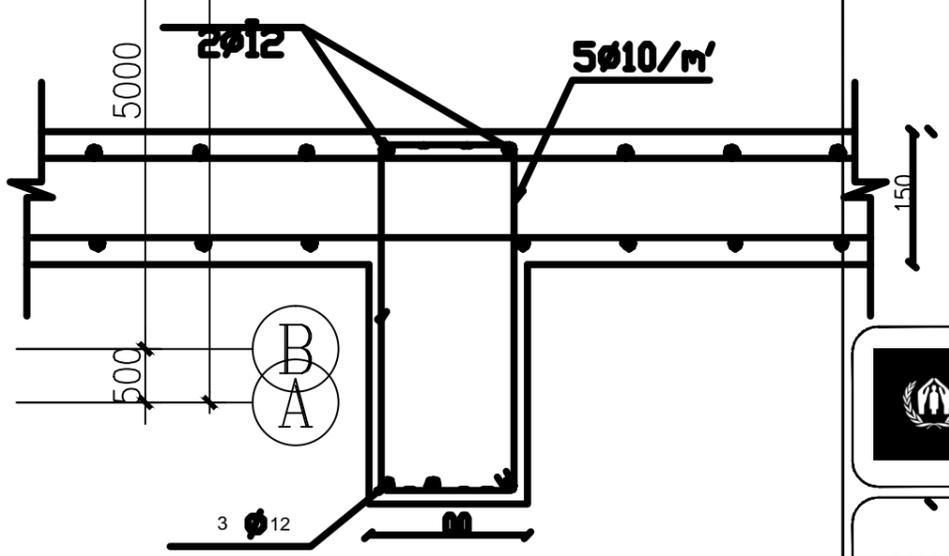
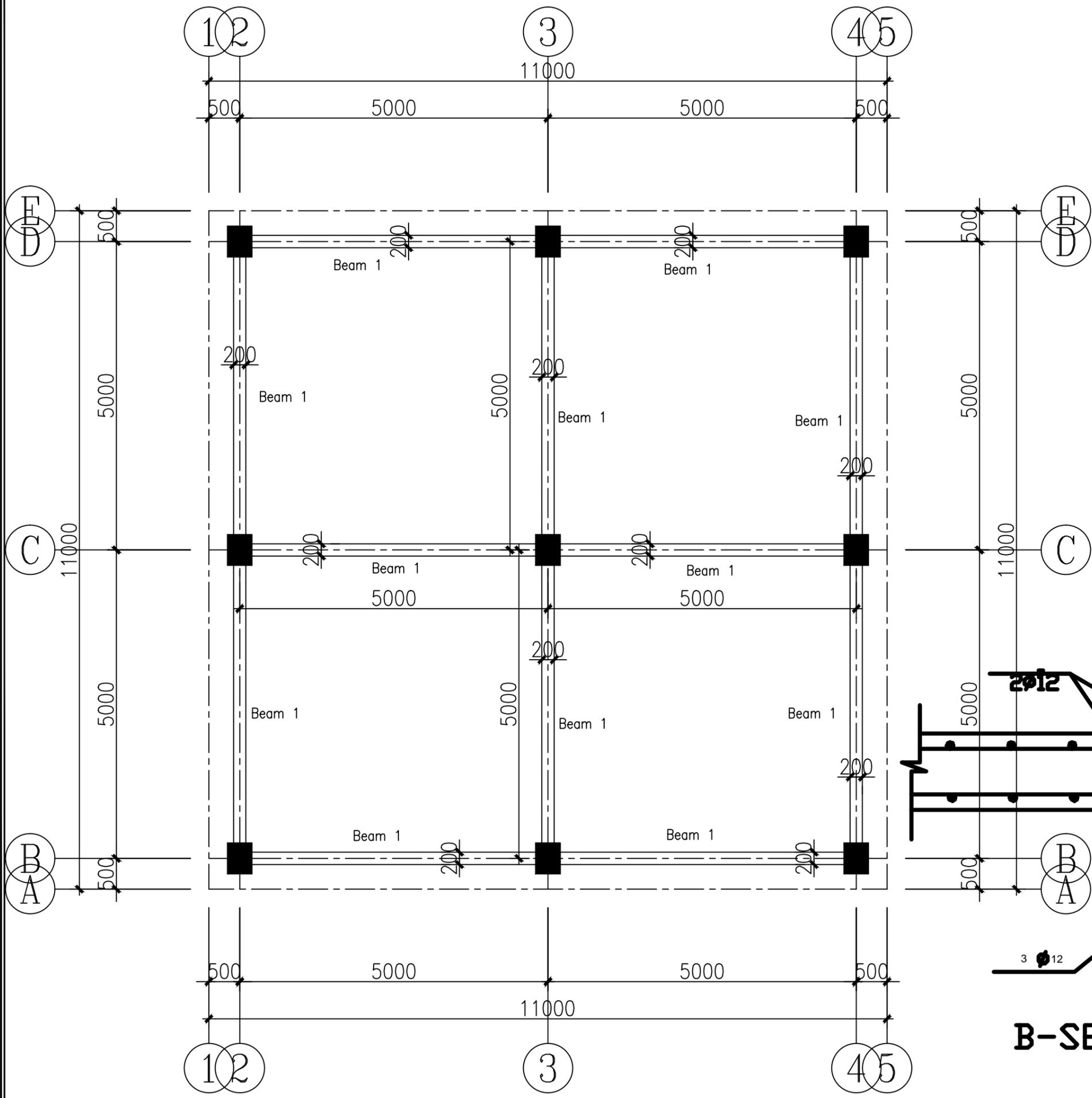


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PIPE LINE PROJECT

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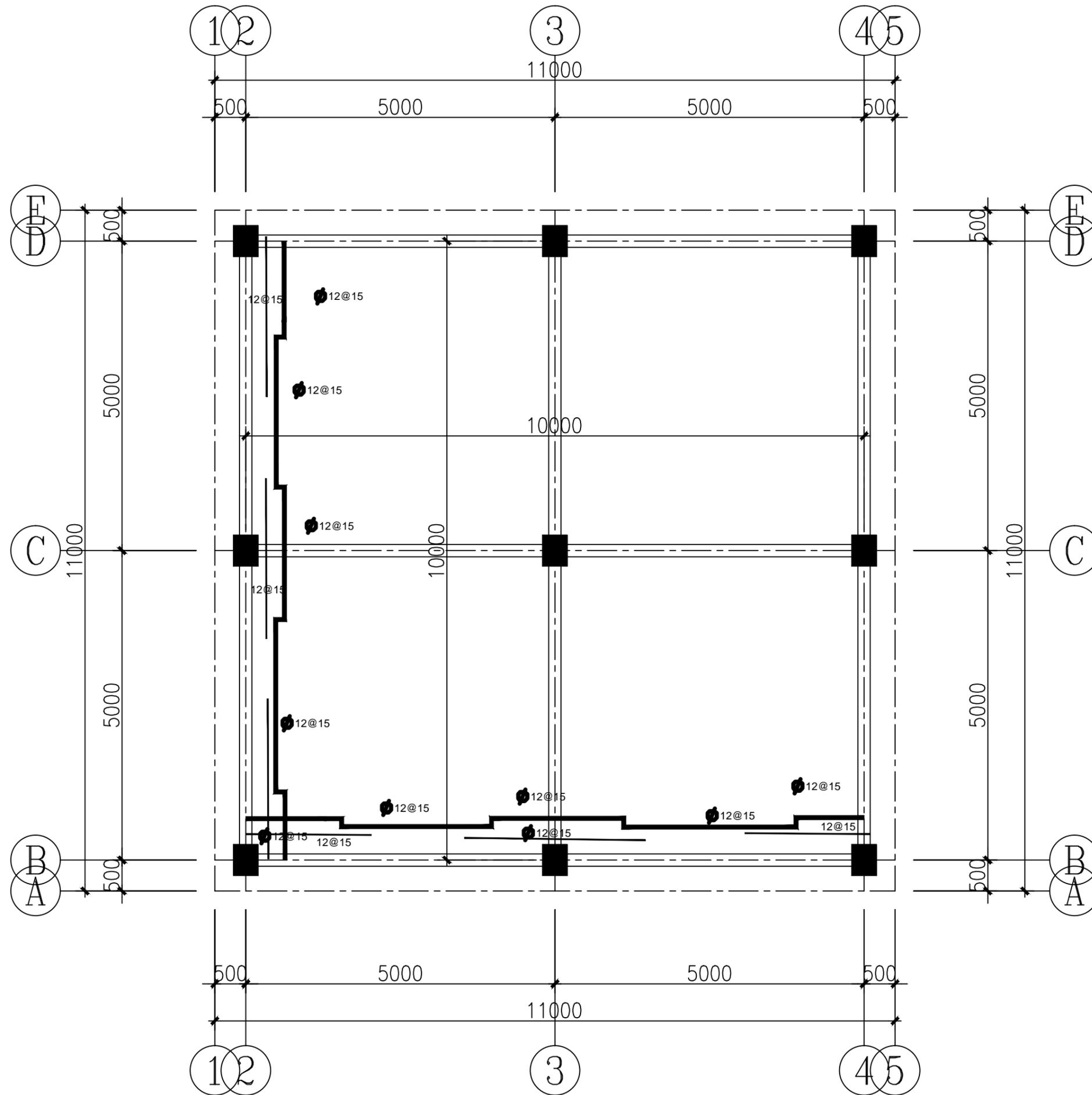
B-SECTION (TYP)

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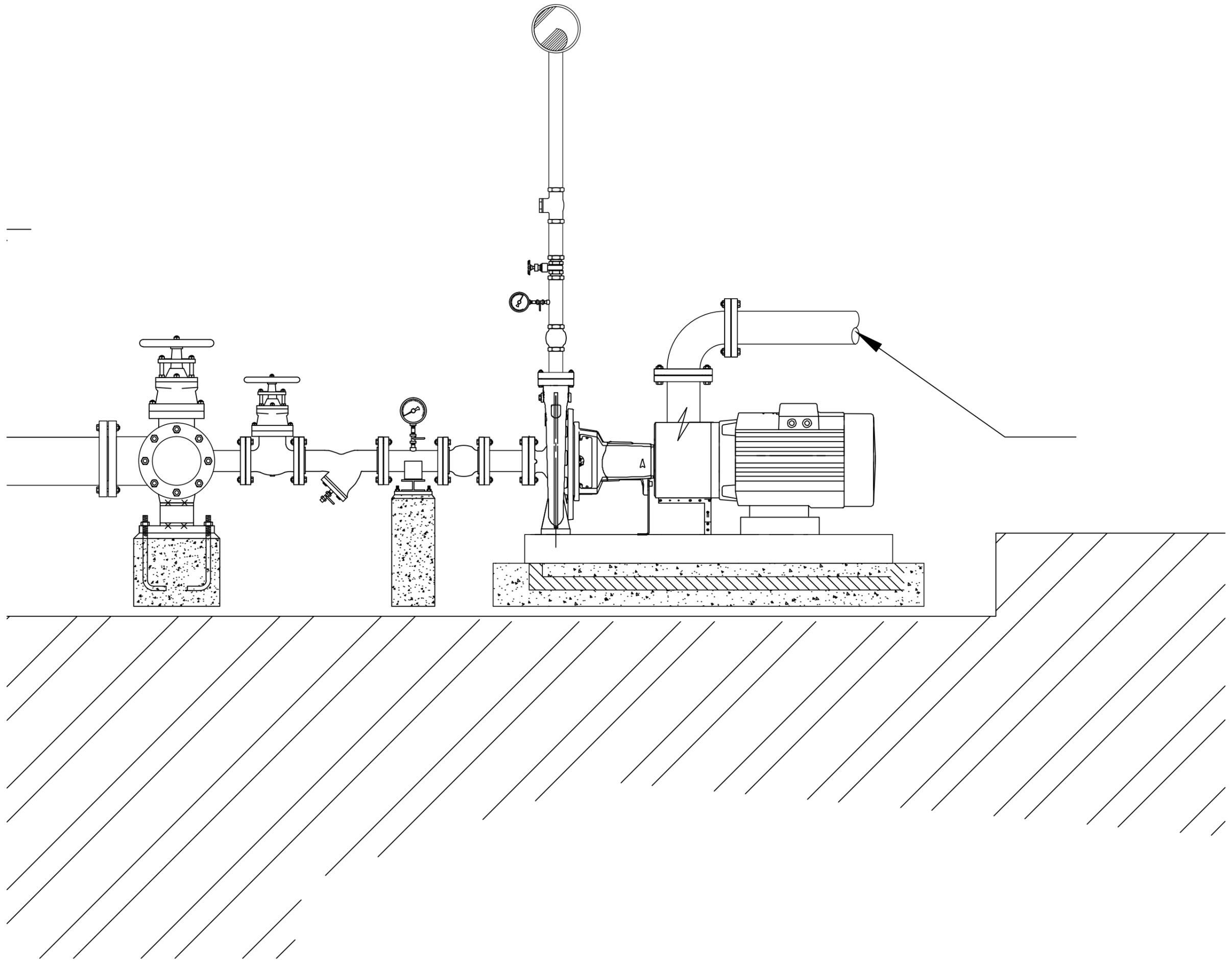


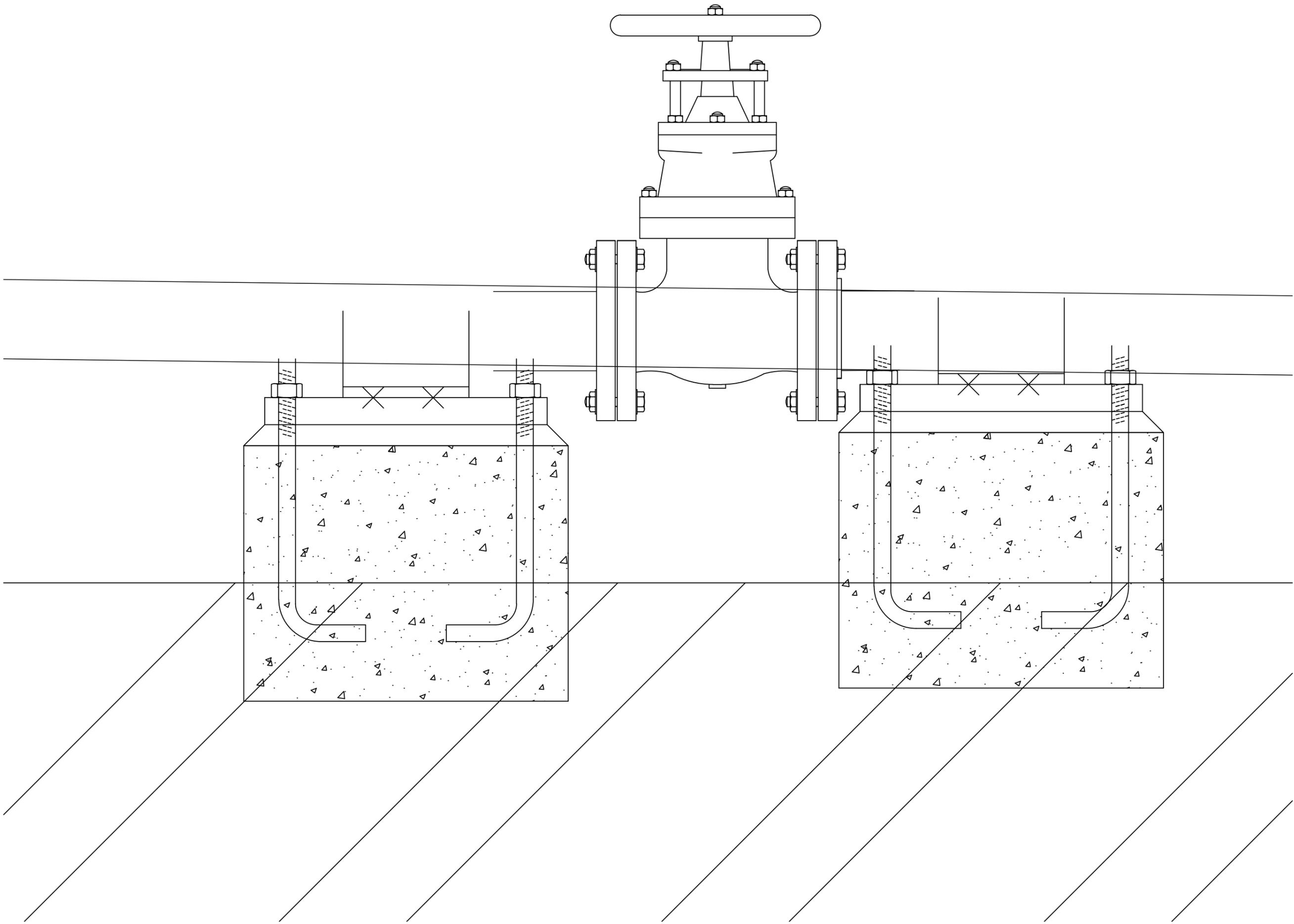
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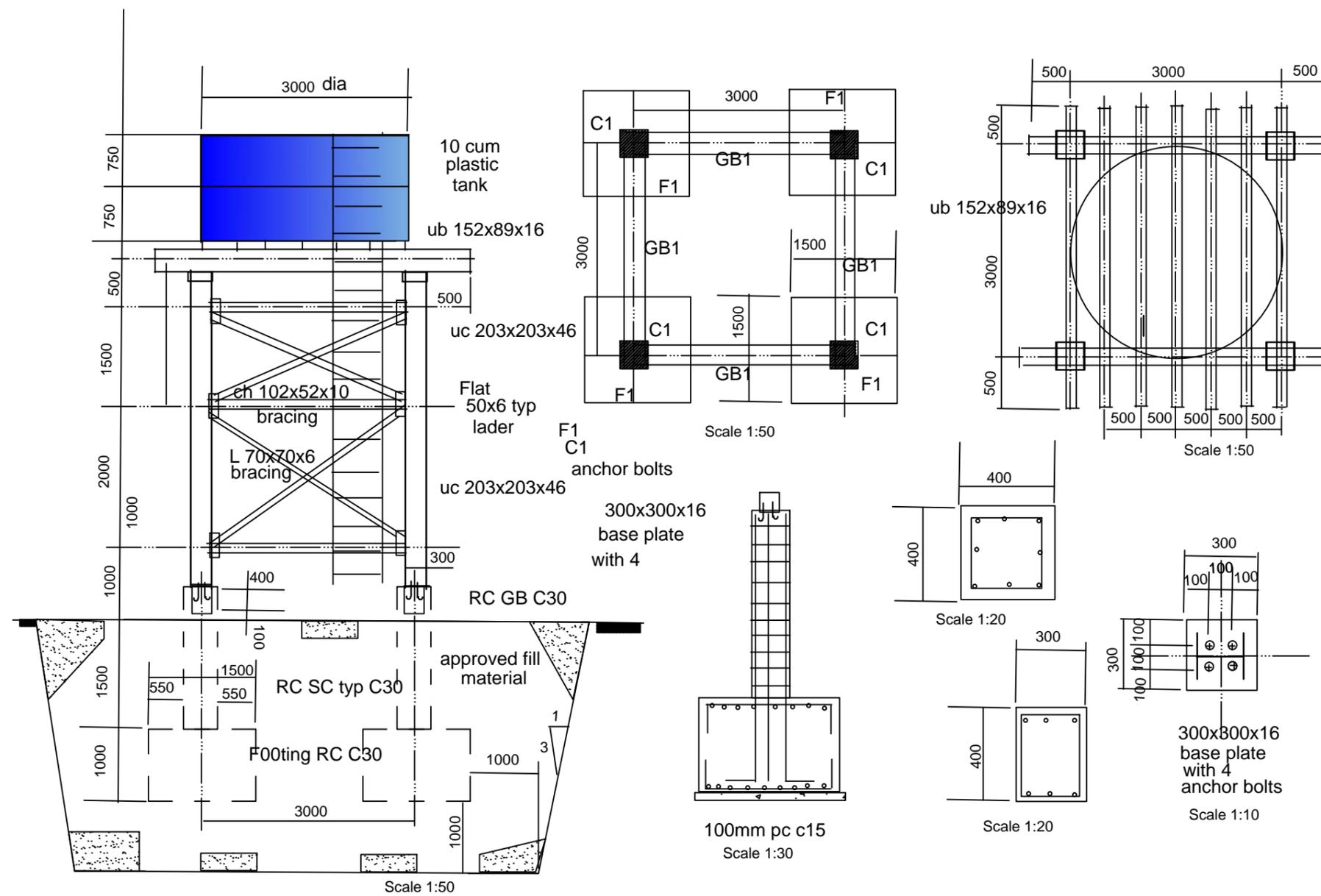


PIPE LINE PROJECT ١

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رقم المخطط:	مقياس الرسم:





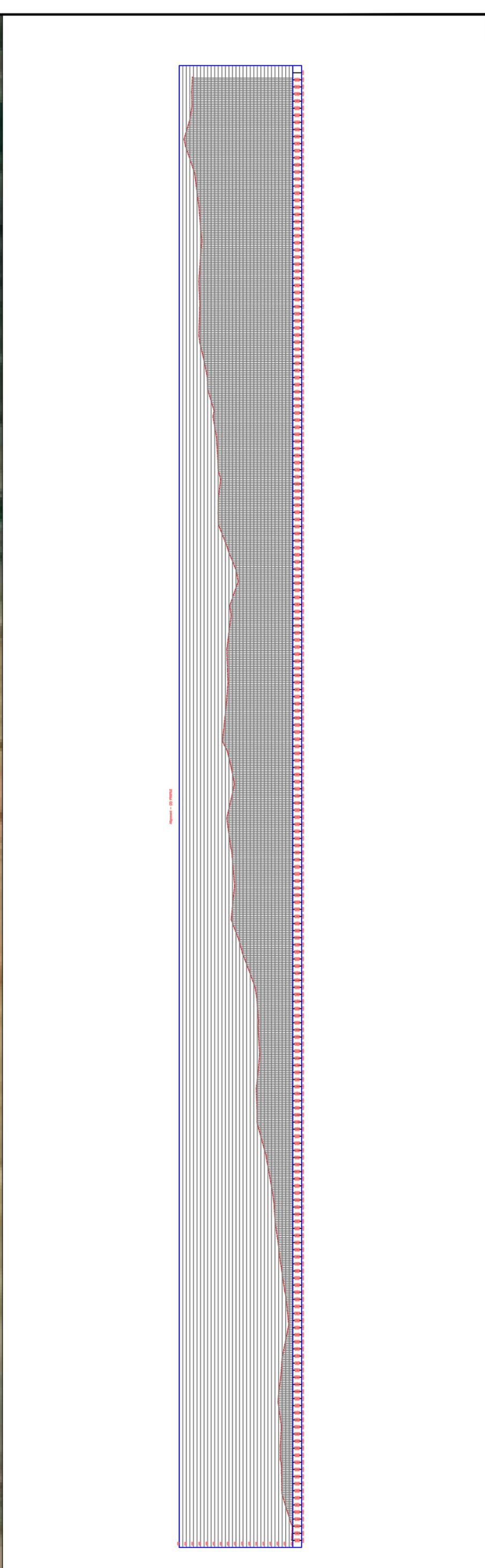


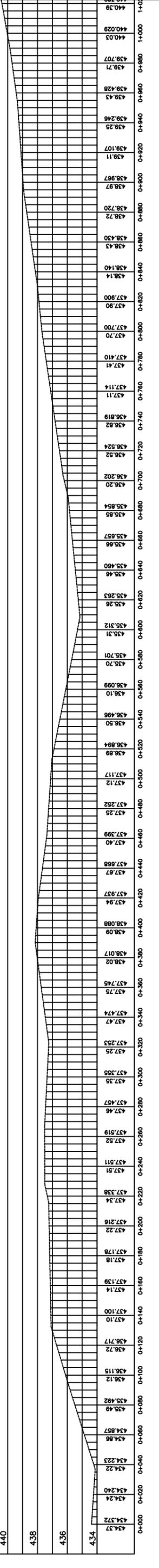
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PIPE LINE PROJECT

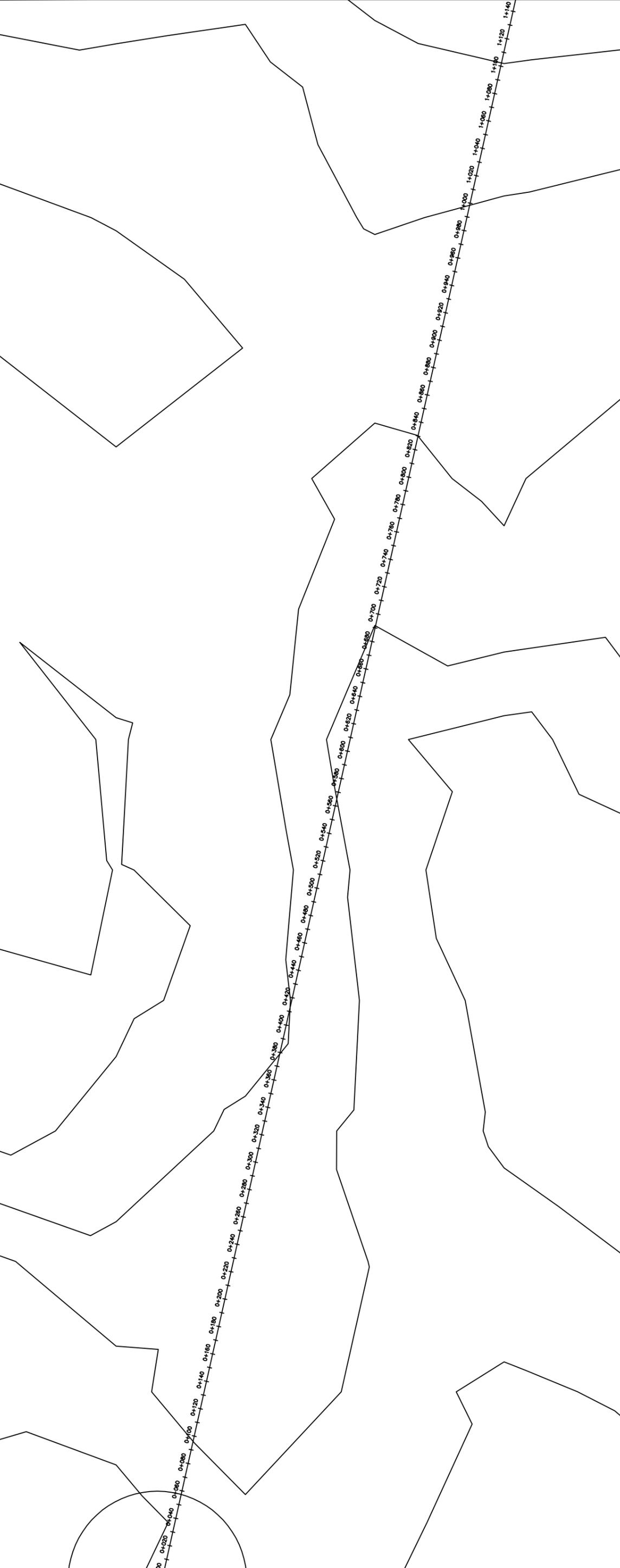
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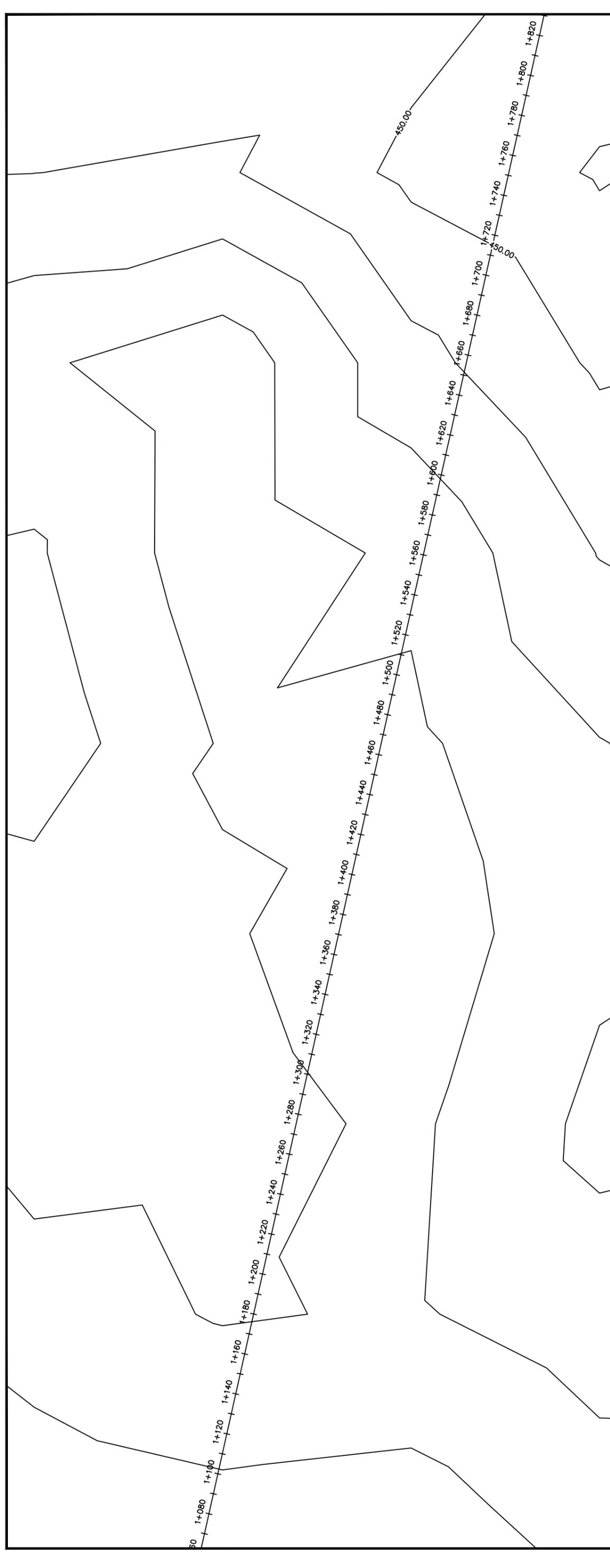


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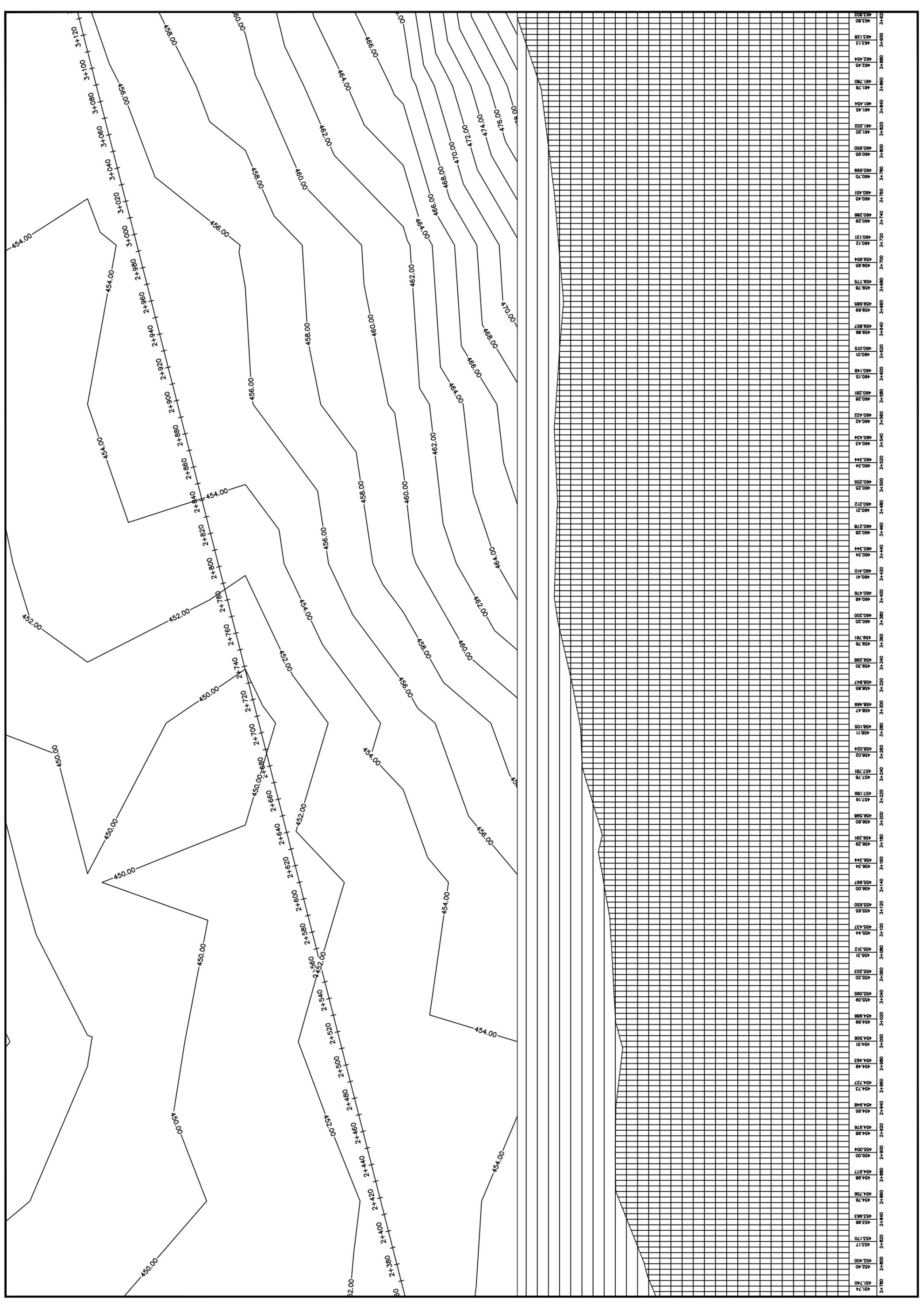
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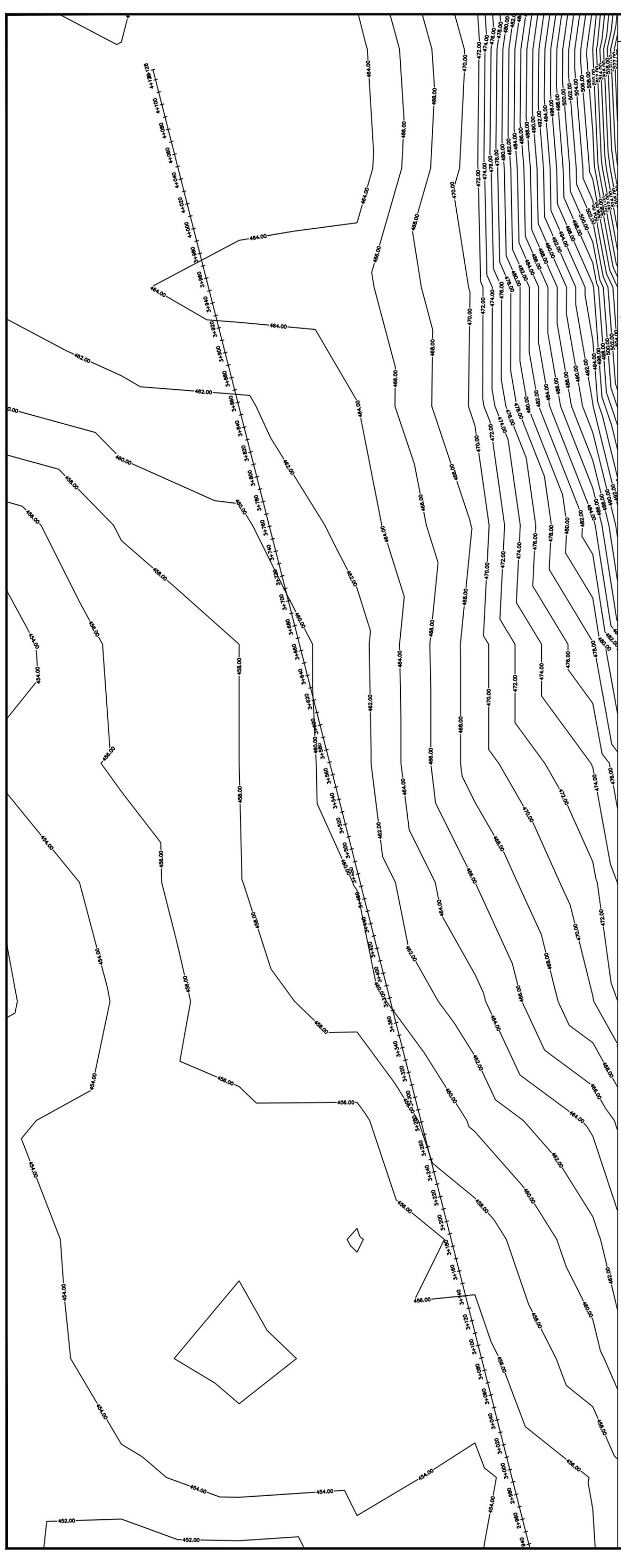
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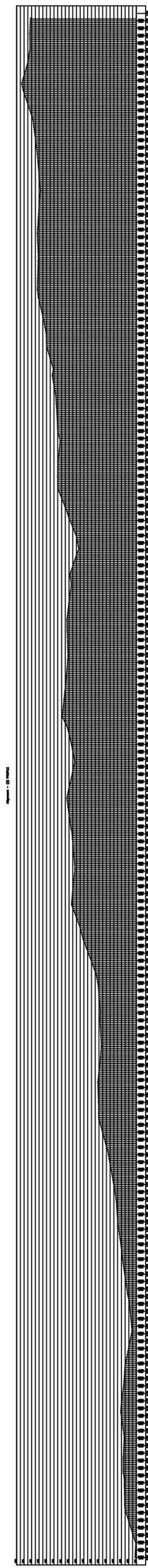
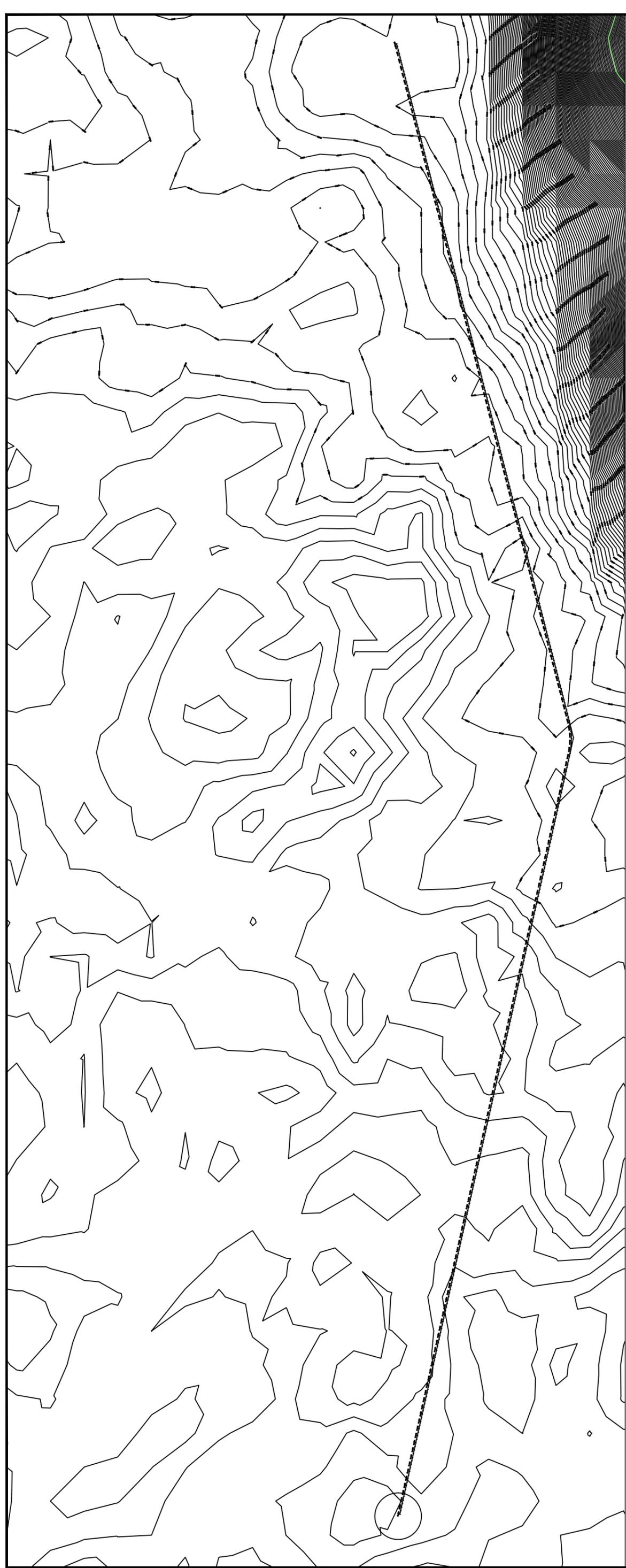
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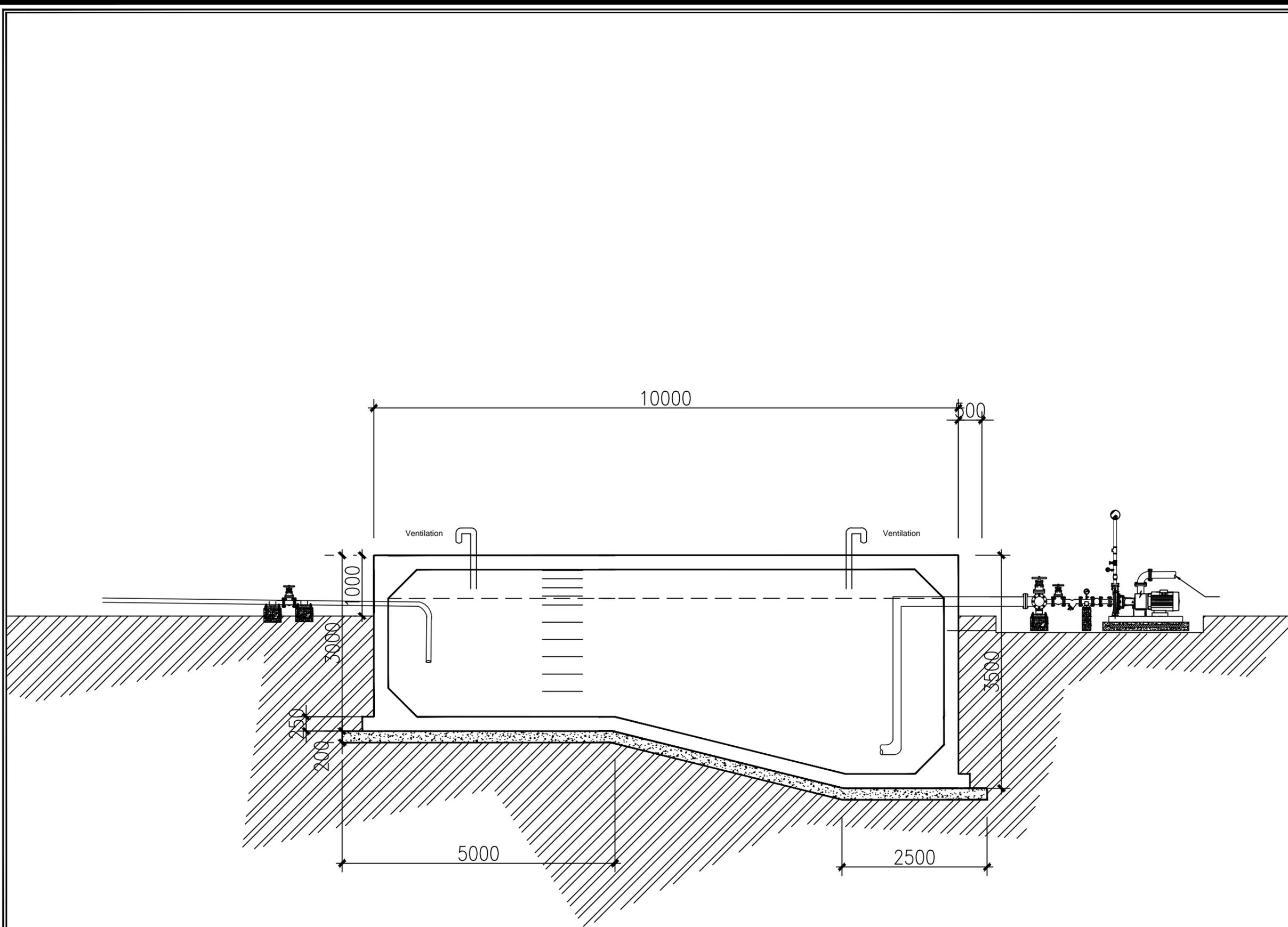


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462.198	9+960
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462.266	10+120
462.300	10+200
462.334	10+280
462.368	10+360
462.402	10+440
462.436	10+520
462.470	10+600
462.504	10+680
462.538	10+760
462.572	10+840
462.606	10+920
462.640	11+000
462.674	11+080
462.708	11+160
462.742	11+240
462.776	11+320
462.810	11+400
462.844	11+480
462.878	11+560
462.912	11+640
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465.666	18+120
465.700	18+200
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466.992	21+240
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467.060	21+400
467.094	21+480
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467.162	21+640
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470.970	30+600
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471.140	31+000
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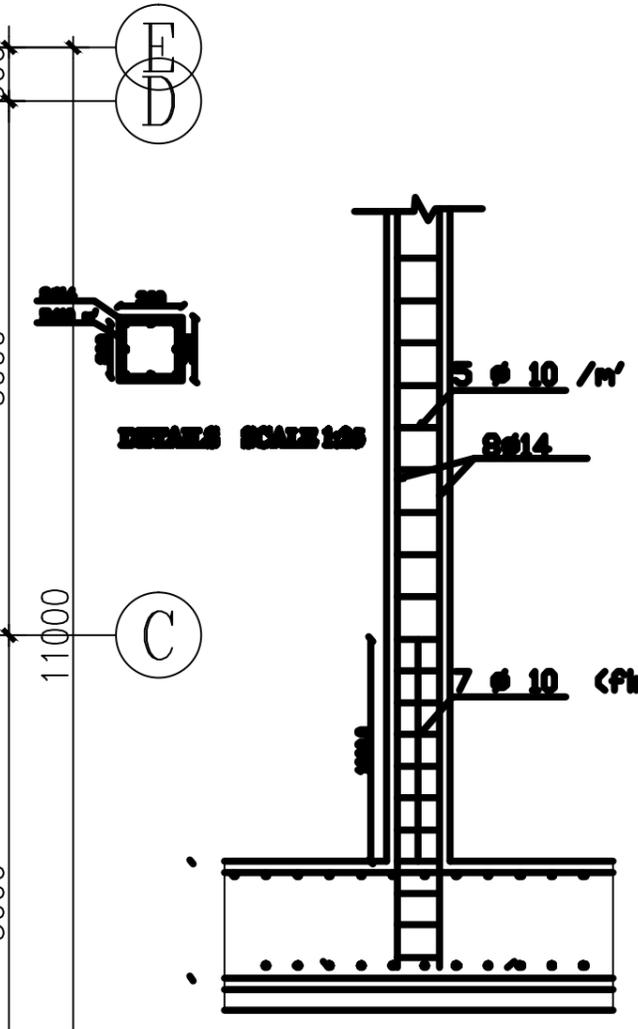
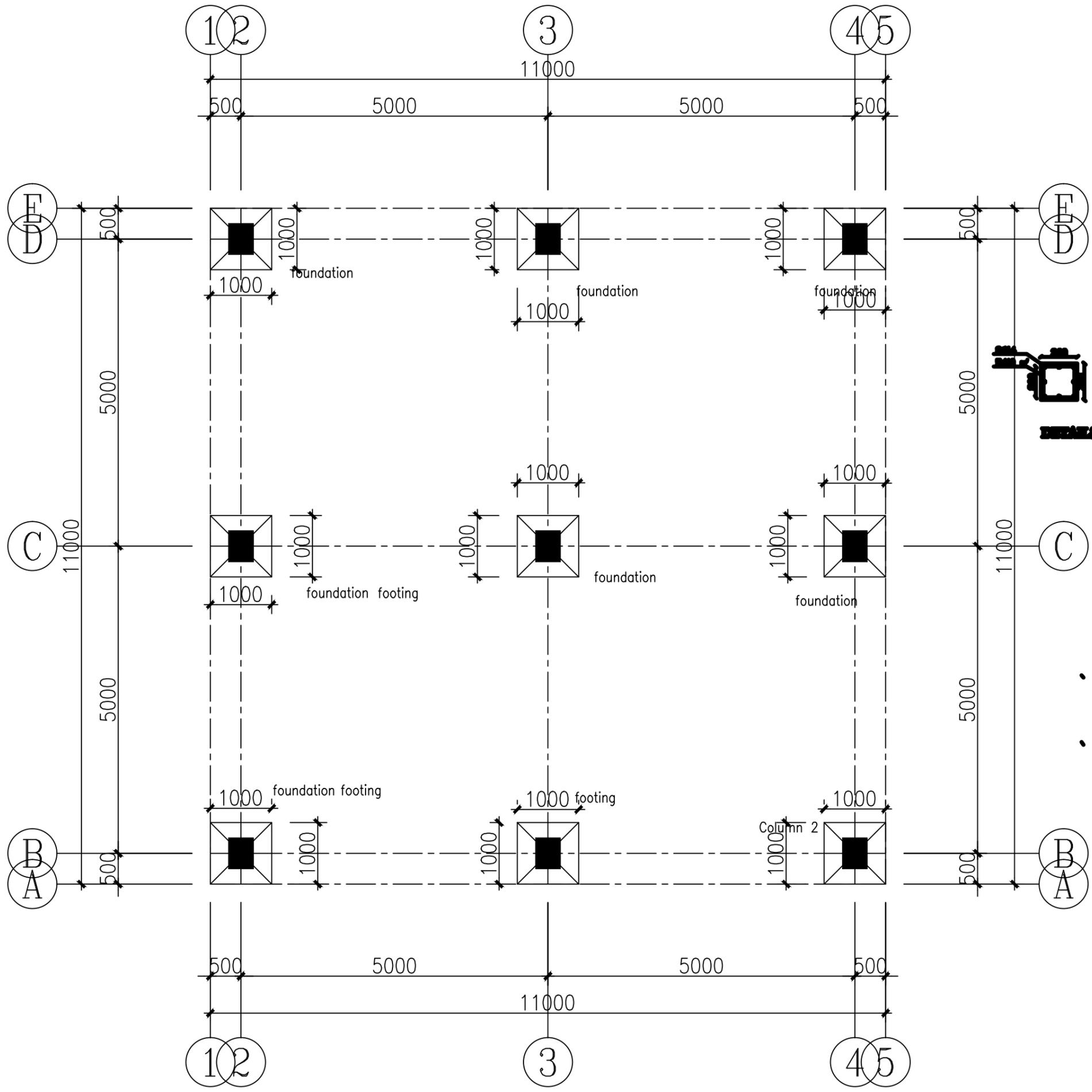


Rev. no.	Date	Description	Drw.	Checked



مشروع
انشاء خزان
PIPE LINE PROJECT

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رسم و تصميم ي.م.	مراجعة:
رقم المخطط:	مقياس الرسم:



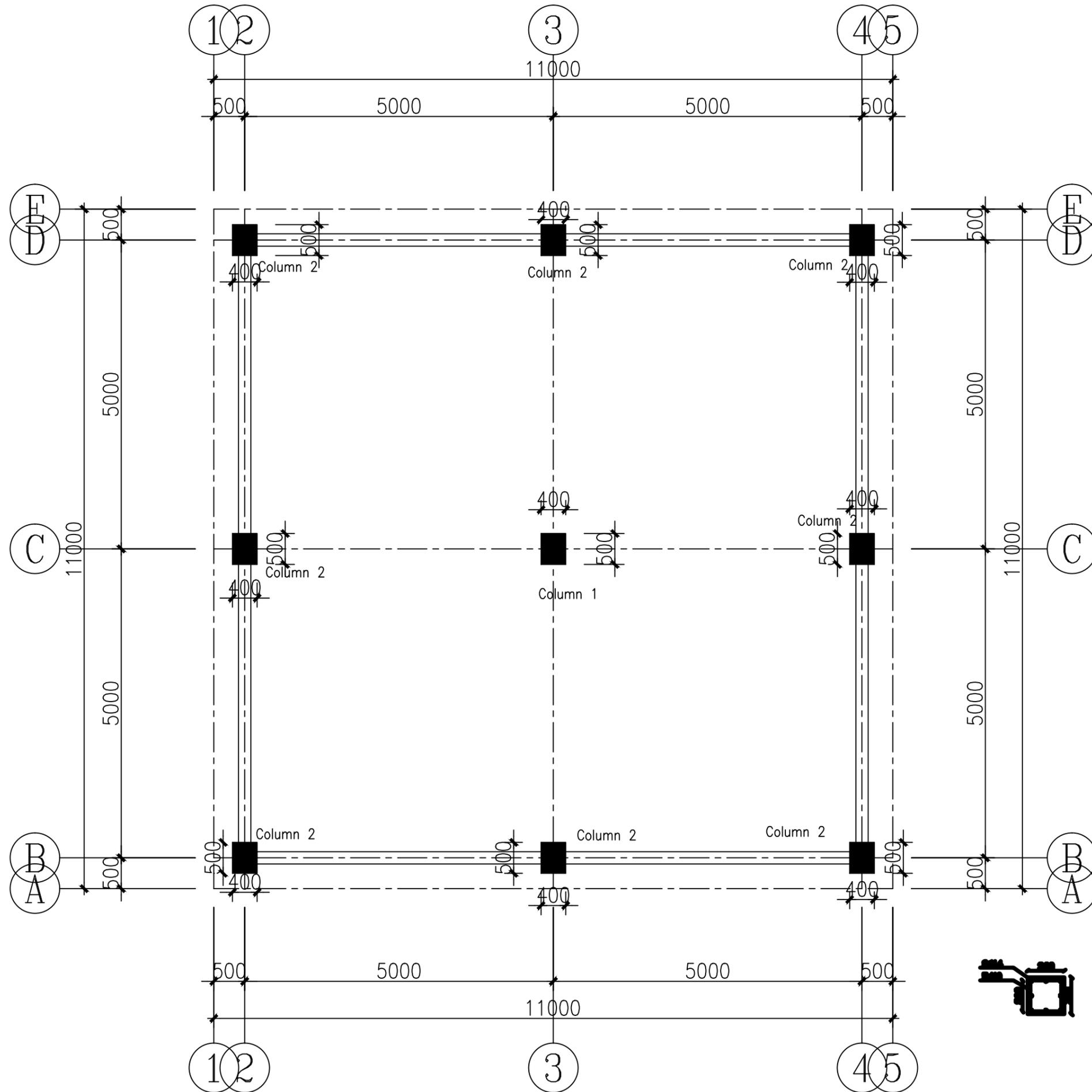
**(TYP) DETAIL FOR
COLUMN AND RAFT CONNECTION**

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PIPE LINE PROJECT

اسم اللوحة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقياس الرسم:

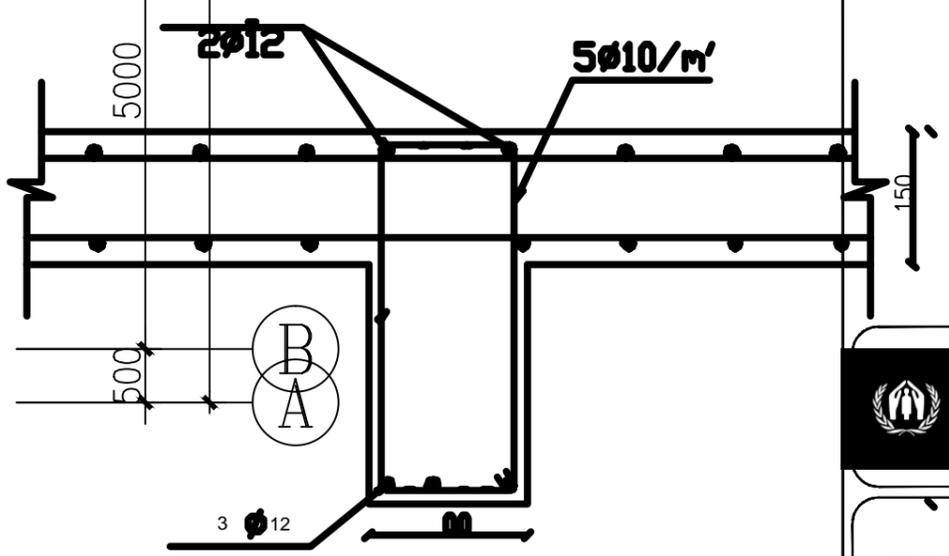
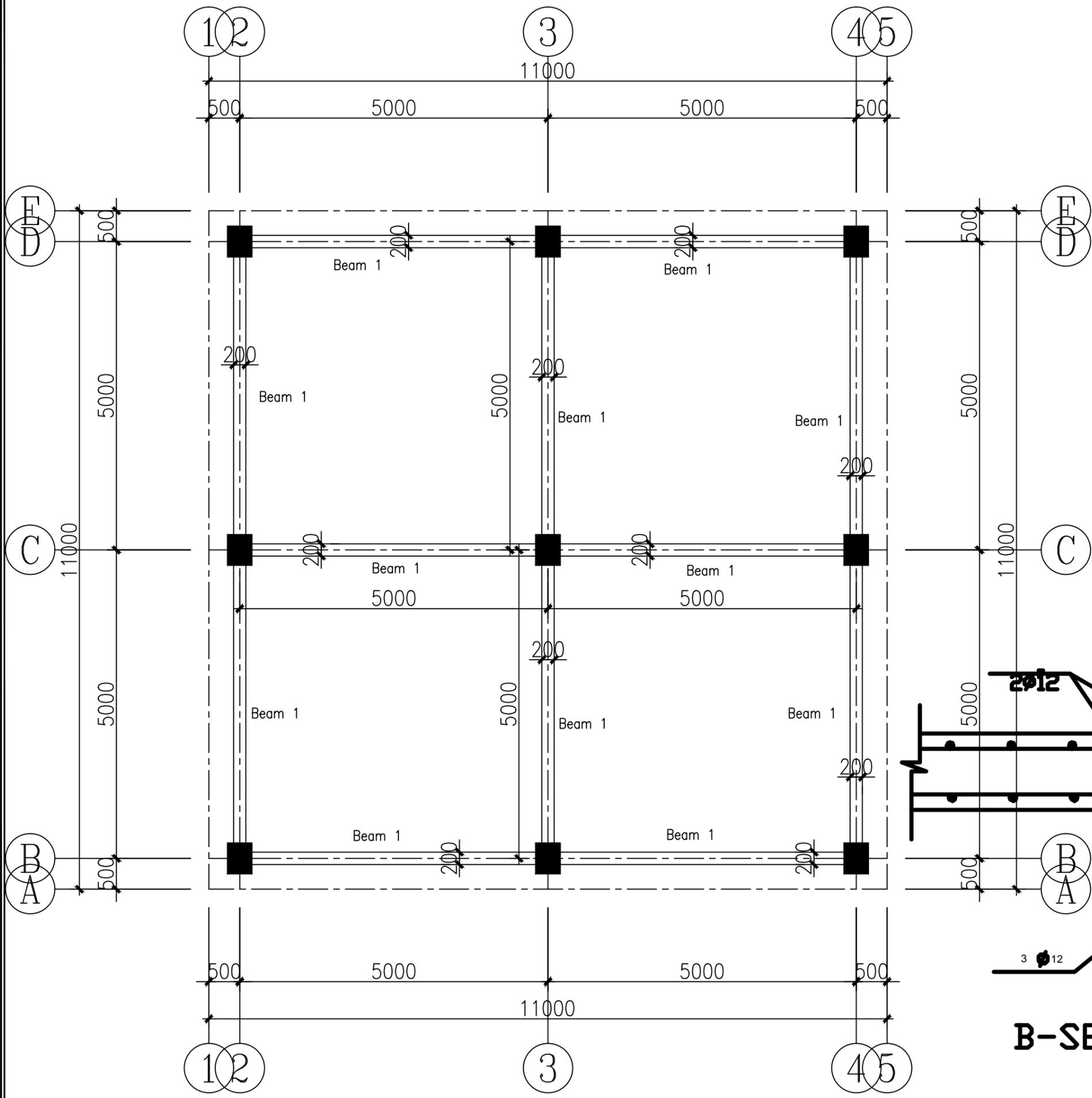


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PIPE LINE PROJECT

اسم اللوحة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقياس الرسم:



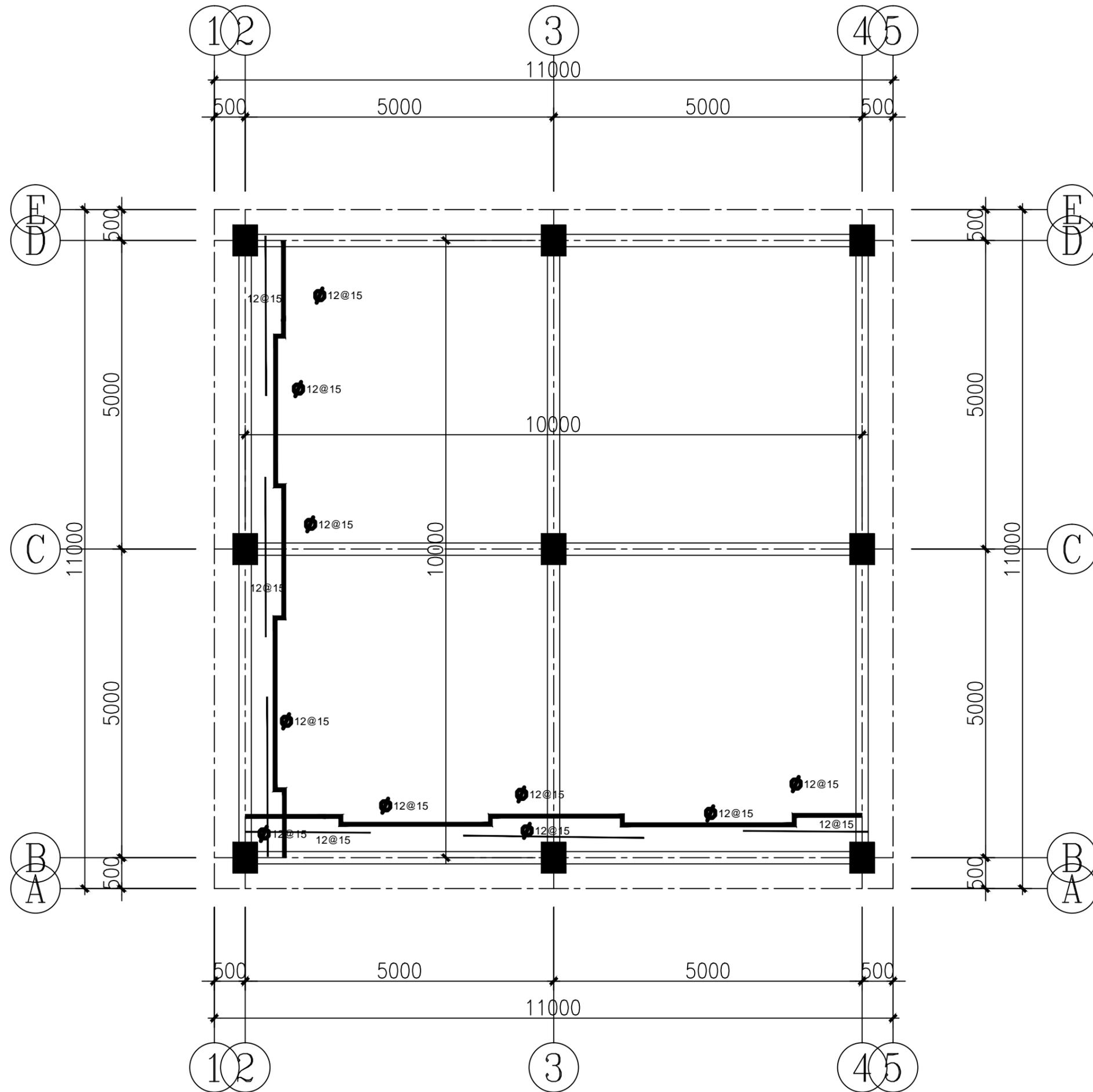
B-SECTION (TYP)

Rev. no.	Date	Description	Drw.	Checked



PIPE LINE PROJECT

اسم اللوحة:	
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رقم المخطط:	مقياس الرسم:

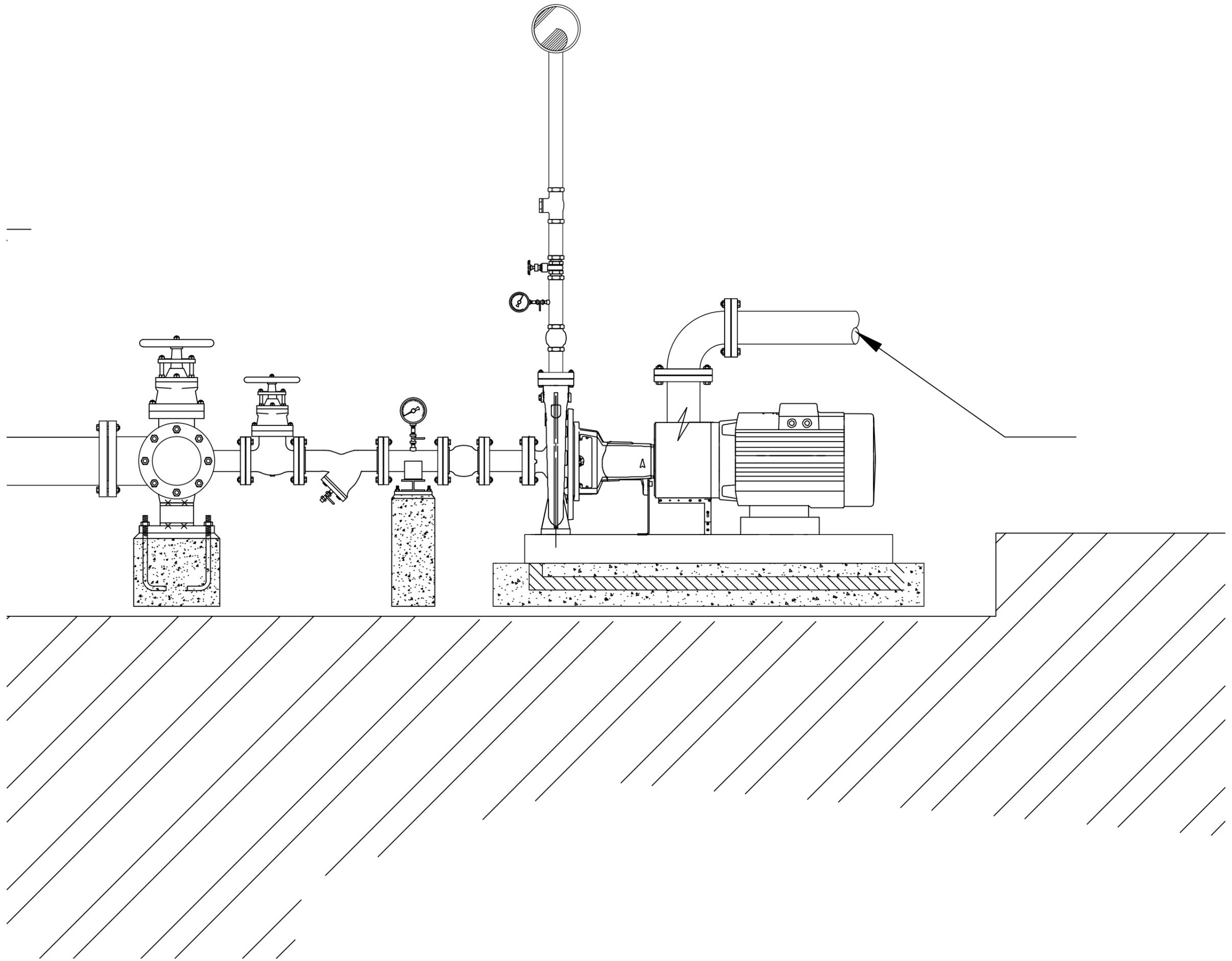


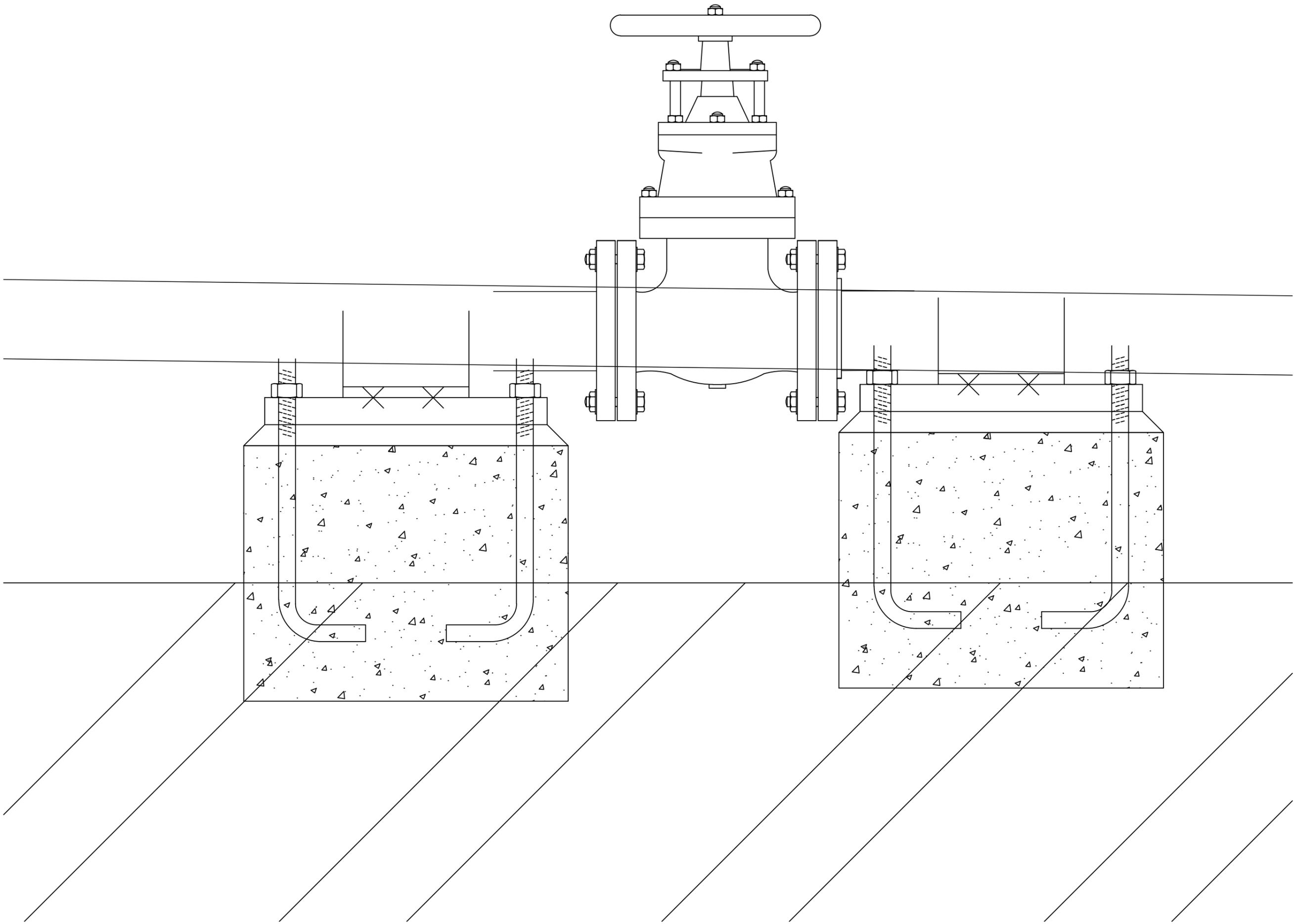
Rev. no.	Date	Description	Drw.	Checked

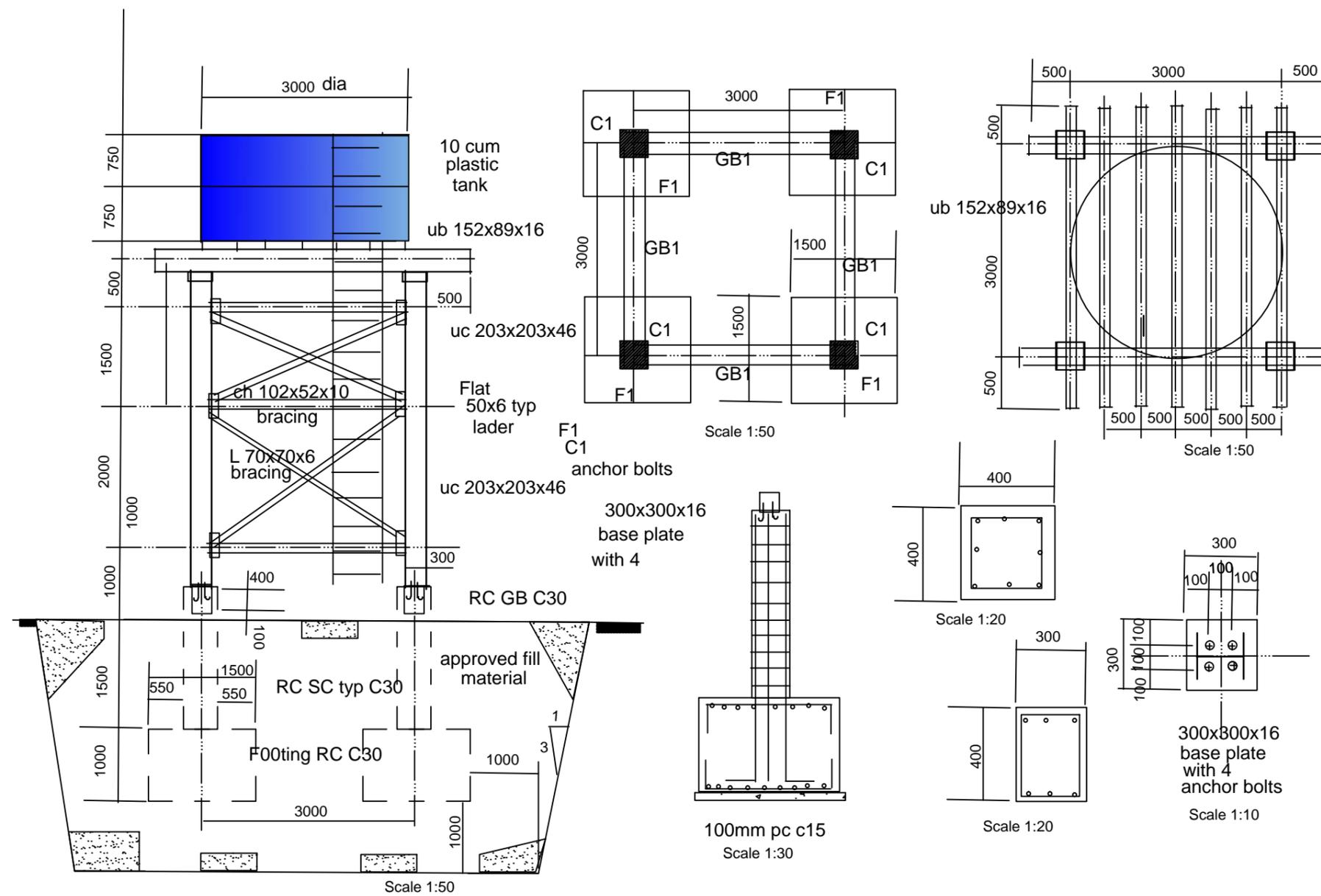


PIPE LINE PROJECT ١

اسم الذوخة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقياس الرسم:





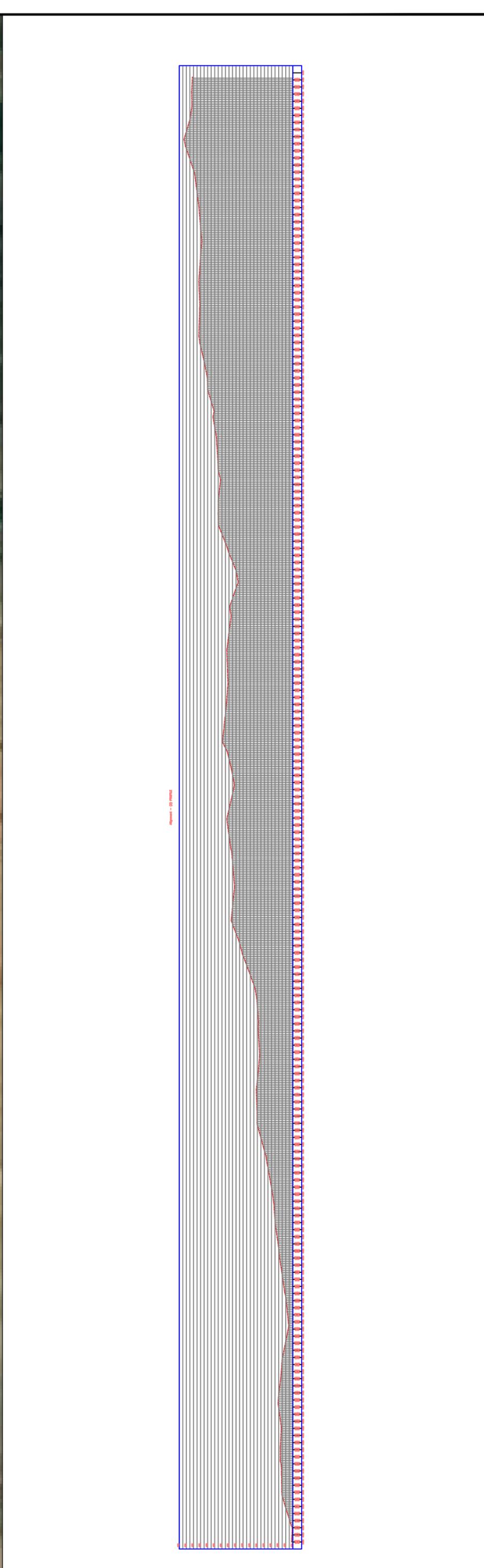


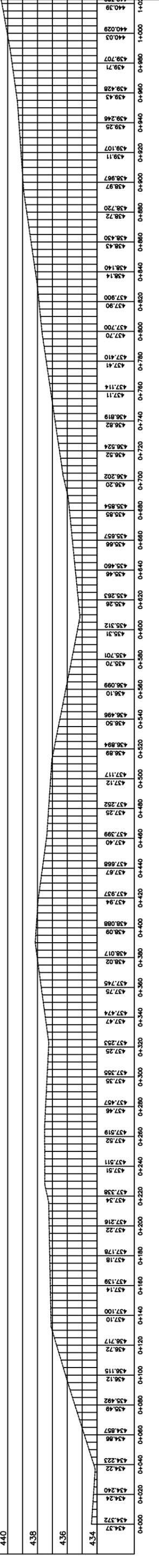
Rev. no.	Date	Description	Drw.	Checked

المحقق اول
 جواد الفهد ولفيقات ولخيتش اراتال فهديه
 GWAD FOR CONTRACTOR

PIPE LINE PROJECT

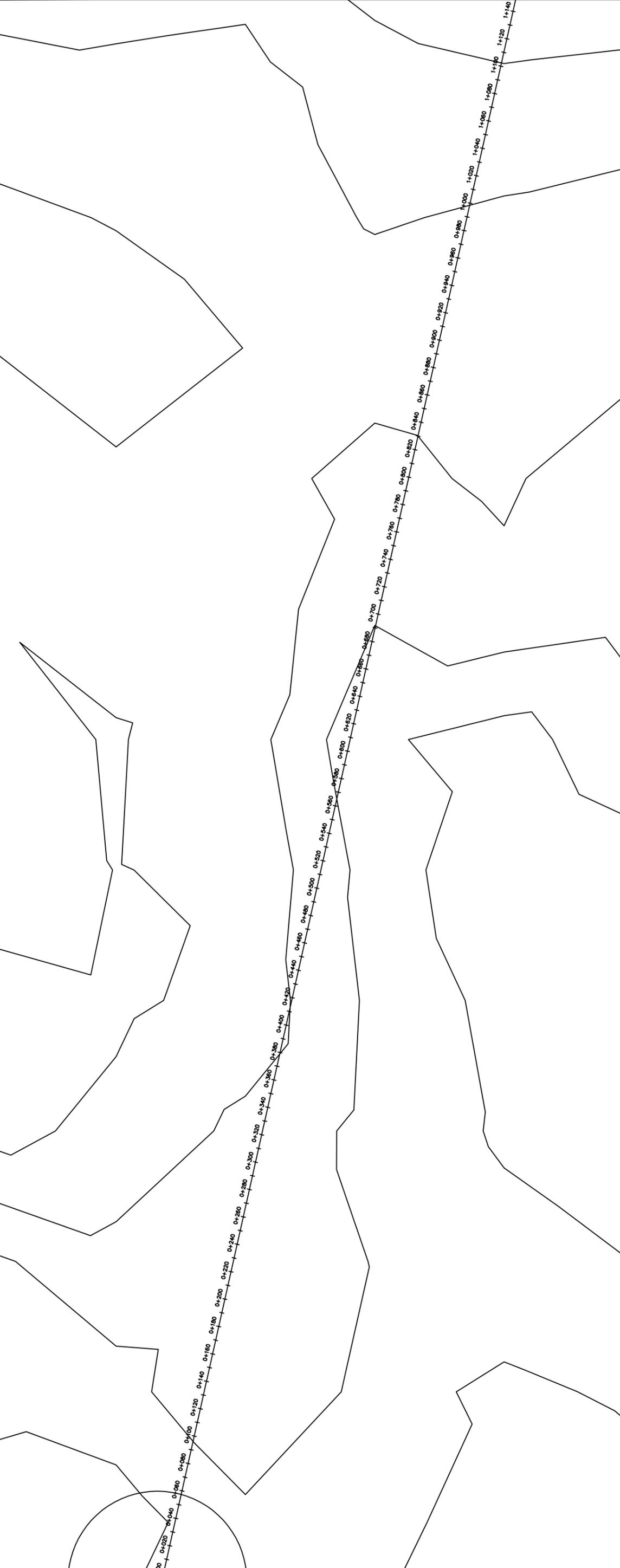
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رقم المخطط :	مقياس رسم:

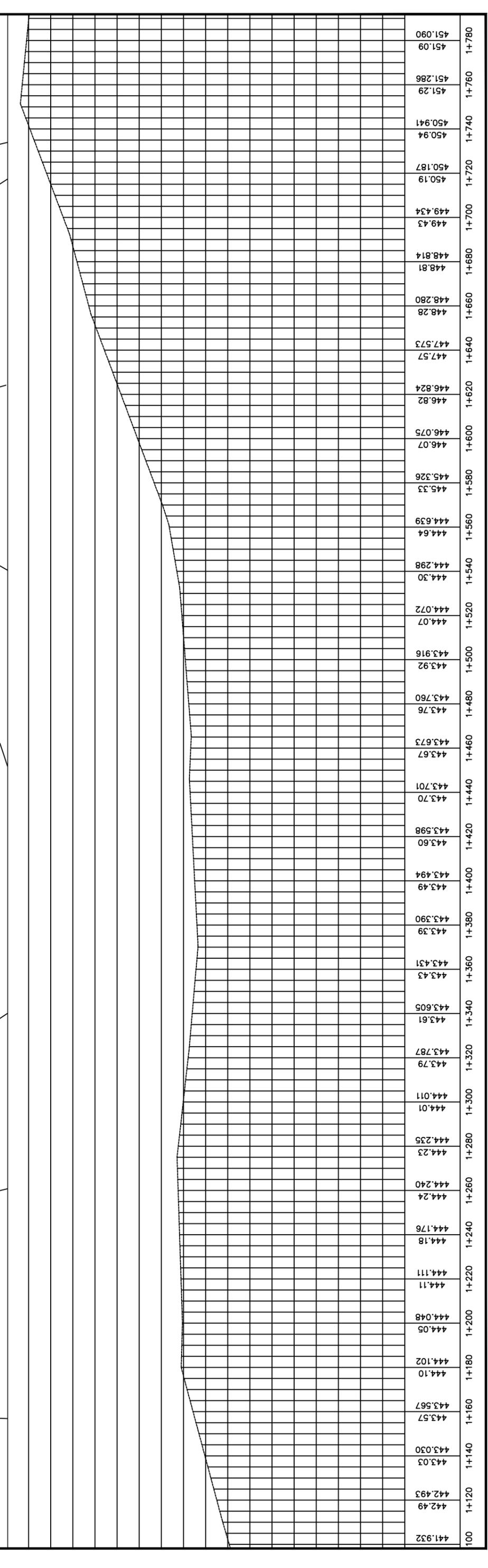
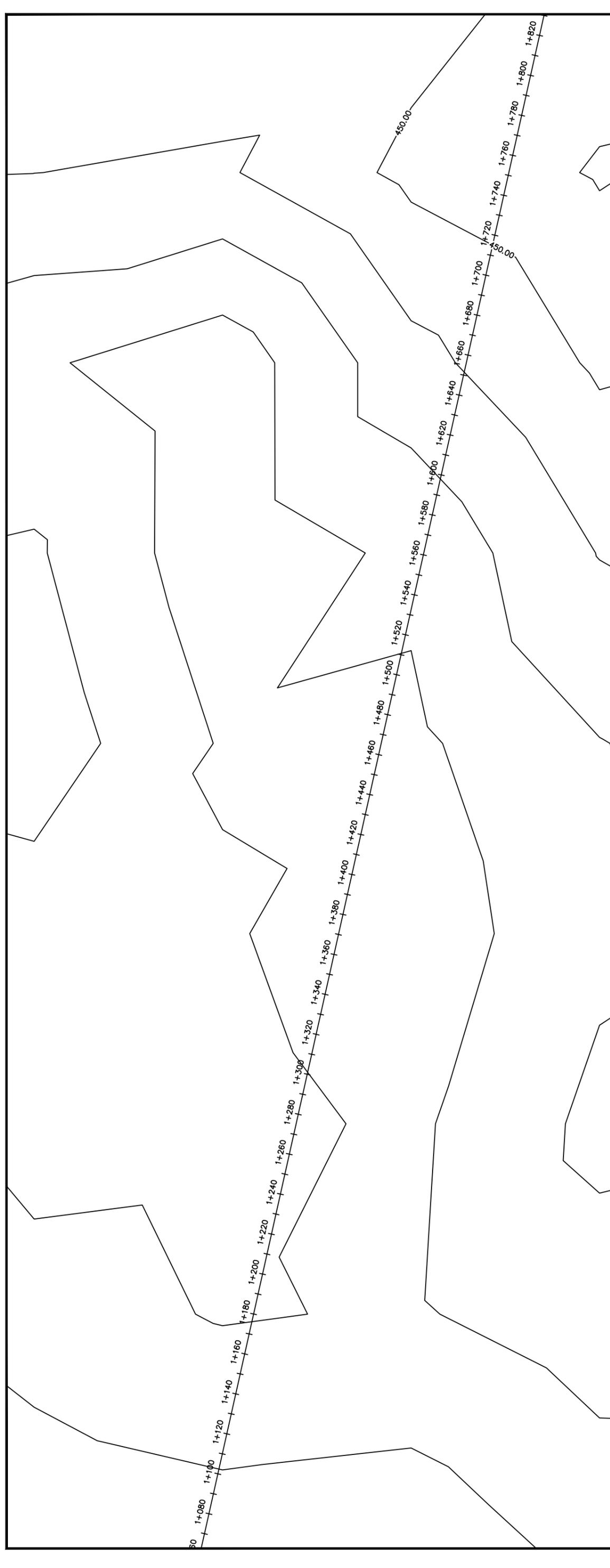




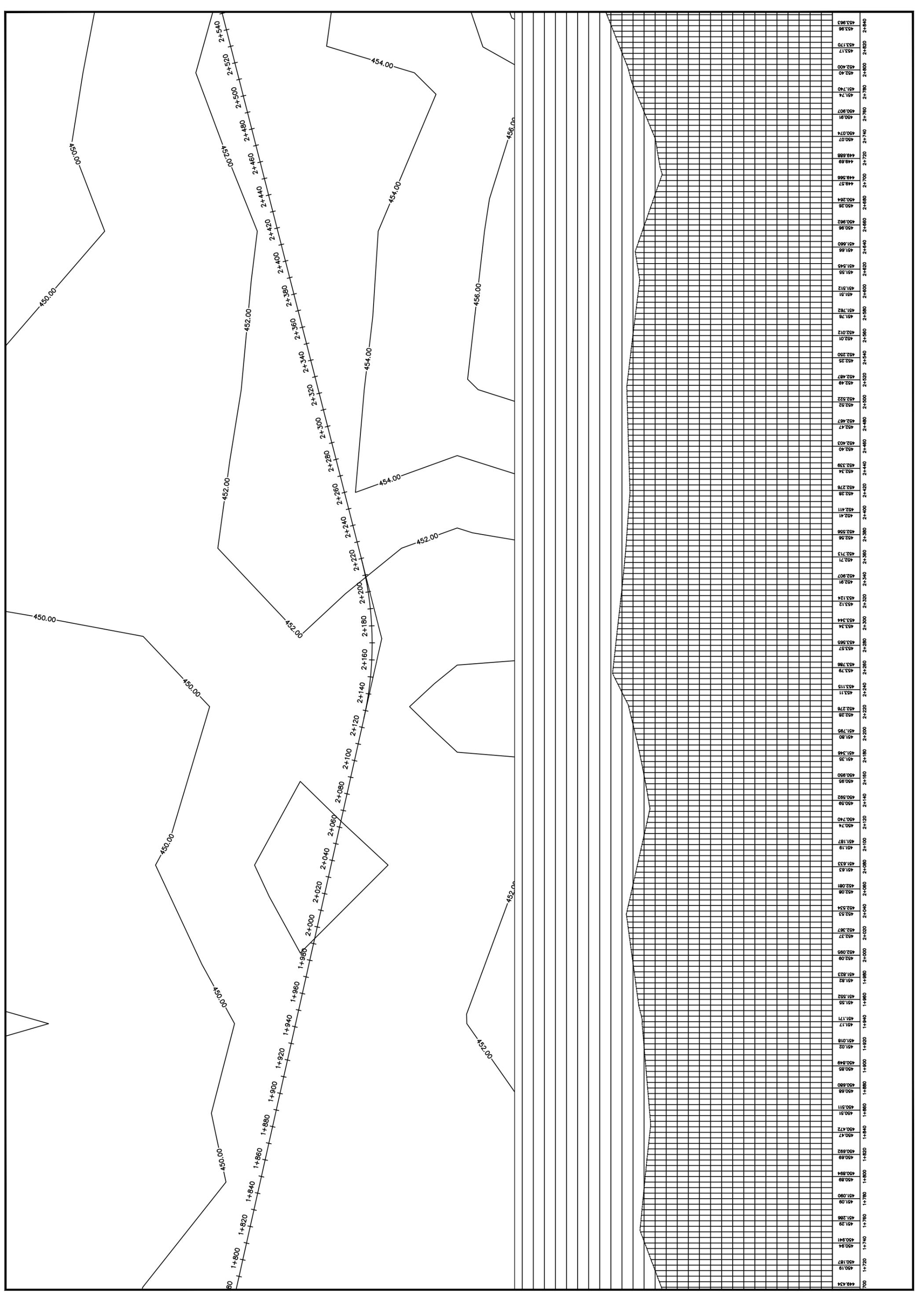
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434.86	0+060
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436.717	0+140
437.10	0+160
437.139	0+180
437.178	0+200
437.22	0+220
437.216	0+240
437.34	0+260
437.338	0+280
437.51	0+300
437.511	0+320
437.519	0+340
437.52	0+360
437.518	0+380
437.457	0+400
437.35	0+420
437.353	0+440
437.253	0+460
437.253	0+480
437.474	0+500
437.75	0+520
437.745	0+540
438.02	0+560
438.017	0+580
438.08	0+600
438.088	0+620
437.94	0+640
437.937	0+660
437.67	0+680
437.668	0+700
437.40	0+720
437.399	0+740
437.25	0+760
437.252	0+780
437.12	0+800
437.117	0+820
436.89	0+840
436.894	0+860
436.50	0+880
436.496	0+900
436.10	0+920
436.099	0+940
435.70	0+960
435.701	0+980
435.312	1+000
435.263	1+020
435.46	1+040
435.460	1+060
435.66	1+080
435.657	1+100
435.85	1+120
435.854	1+140
436.20	1+160
436.202	1+180
436.524	1+200
436.52	1+220
436.82	1+240
437.114	1+260
437.11	1+280
437.41	1+300
437.410	1+320
437.70	1+340
437.700	1+360
437.90	1+380
437.900	1+400
438.14	1+420
438.43	1+440
438.430	1+460
438.72	1+480
438.720	1+500
438.97	1+520
438.97	1+540
439.11	1+560
439.107	1+580
439.25	1+600
439.246	1+620
439.43	1+640
439.428	1+660
439.71	1+680
439.707	1+700
440.03	1+720
440.028	1+740
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462	460	458	456	454	452	450	448	446	444	442

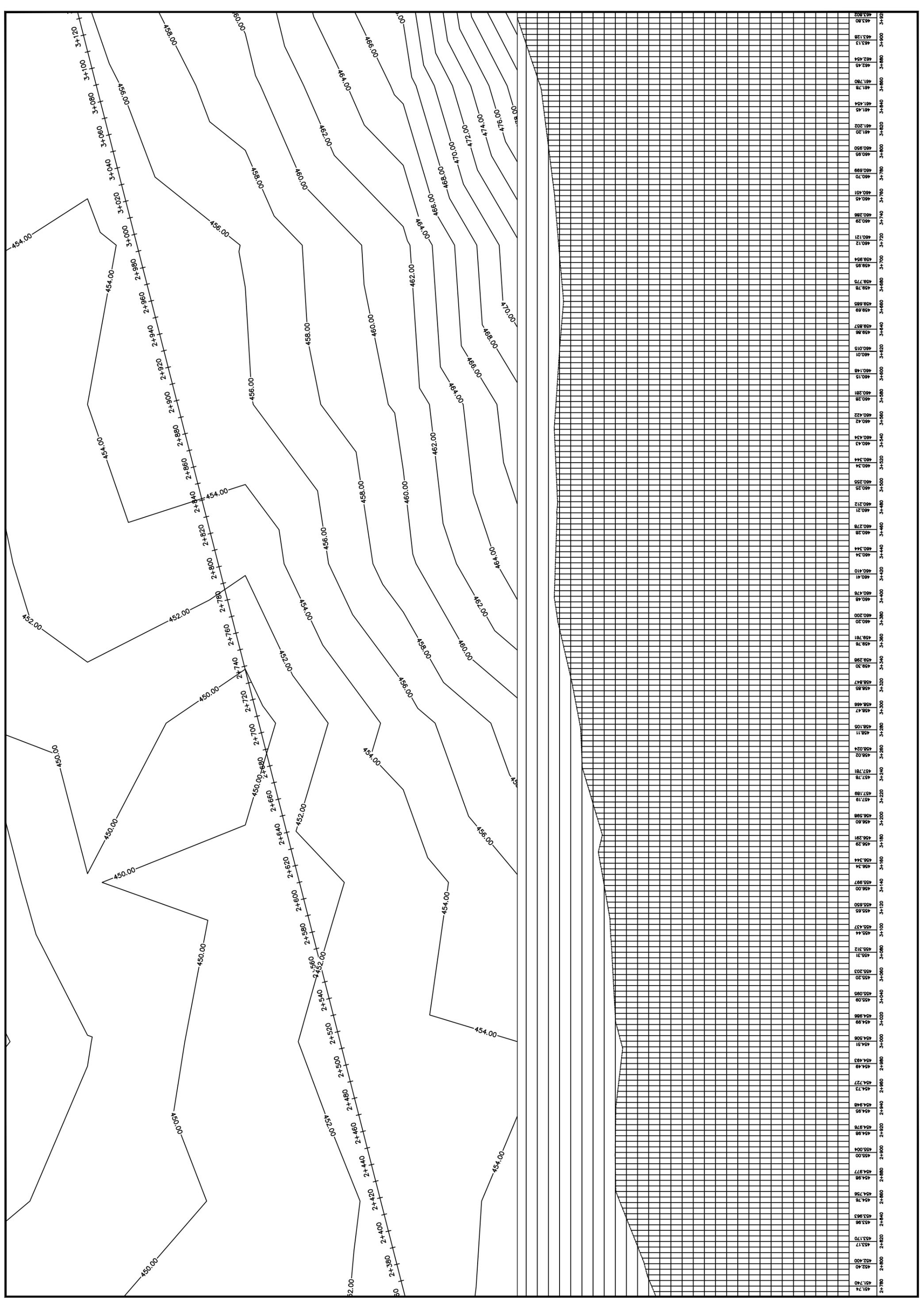


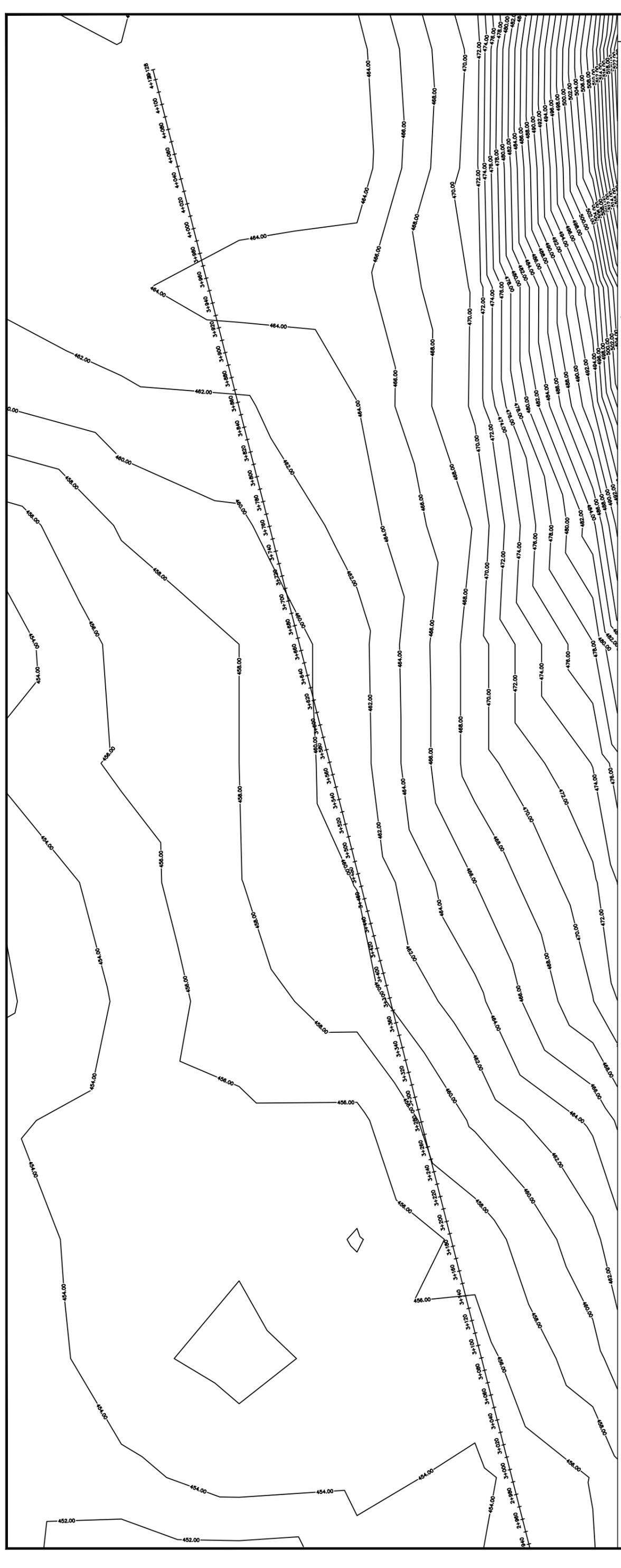


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444.111	1+220
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444.176	1+240
444.24	1+260
444.240	1+260
444.23	1+280
444.235	1+280
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443.70	1+440
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443.67	1+460
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443.760	1+480
443.92	1+500
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446.075	1+600
446.82	1+620
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448.81	1+680
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449.43	1+700
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450.187	1+720
450.94	1+740
450.941	1+740
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451.286	1+760
451.09	1+780
451.090	1+780



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450.51	1+880	1+900
450.66	1+900	1+920
450.85	1+920	1+940
451.02	1+940	1+960
451.08	1+960	1+980
451.82	1+980	2+000
452.08	2+000	2+020
452.37	2+020	2+040
452.534	2+040	2+060
452.61	2+060	2+080
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450.95	2+180	2+200
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451.795	2+220	2+240
452.28	2+240	2+260
452.78	2+260	2+280
453.115	2+280	2+300
453.79	2+300	2+320
453.86	2+320	2+340
453.57	2+340	2+360
453.565	2+360	2+380
453.344	2+380	2+400
453.124	2+400	2+420
452.91	2+420	2+440
452.487	2+440	2+460
452.397	2+460	2+480
452.403	2+480	2+500
452.49	2+500	2+520
452.487	2+520	2+540
452.25	2+540	2+560
452.01	2+560	2+580
452.012	2+580	2+600
451.762	2+600	2+620
451.512	2+620	2+640
451.512	2+640	2+660
451.545	2+660	2+680
451.660	2+680	2+700
450.96	2+700	2+720
450.962	2+720	2+740
450.264	2+740	2+760
449.57	2+760	2+780
449.566	2+780	2+800
449.68	2+800	2+820
449.68	2+820	2+840





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455.20	3+080
455.203	3+080
455.312	3+080
455.31	3+080
455.44	3+100
455.57	3+100
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455.80	3+120
455.898	3+200
457.189	3+220
457.19	3+220
457.78	3+240
457.781	3+240
458.024	3+260
458.024	3+260
458.11	3+280
458.105	3+280
458.47	3+300
458.55	3+320
458.547	3+320
459.30	3+340
459.298	3+340
459.78	3+360
459.781	3+360
460.20	3+380
460.200	3+380
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460.278	3+460
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460.250	3+500
460.34	3+520
460.344	3+520
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459.95	3+700
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460.121	3+720
460.28	3+740
460.286	3+740
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460.451	3+760
460.698	3+780
460.95	3+800
460.950	3+800
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461.202	3+820
461.454	3+840
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461.780	3+860
462.454	3+880
462.45	3+880
463.128	3+900
463.802	3+920
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464.379	3+940
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463.256	4+000
462.83	4+020
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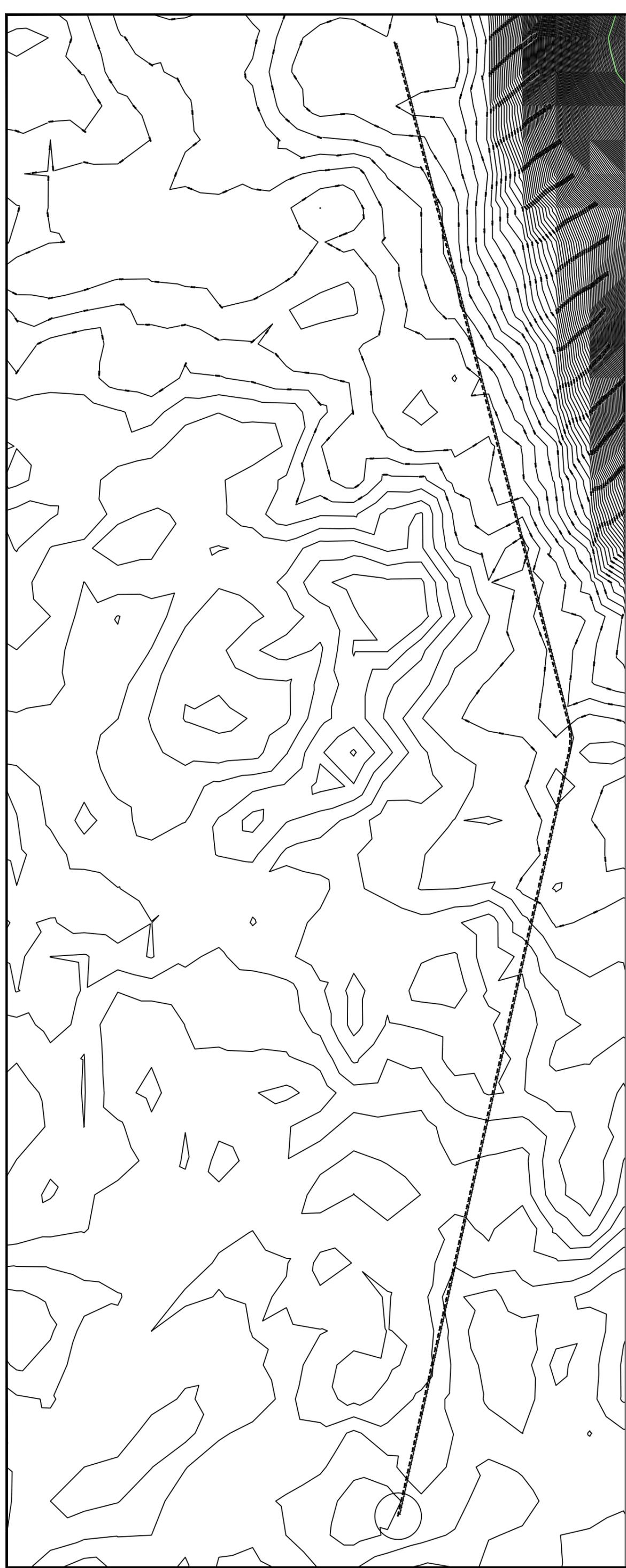
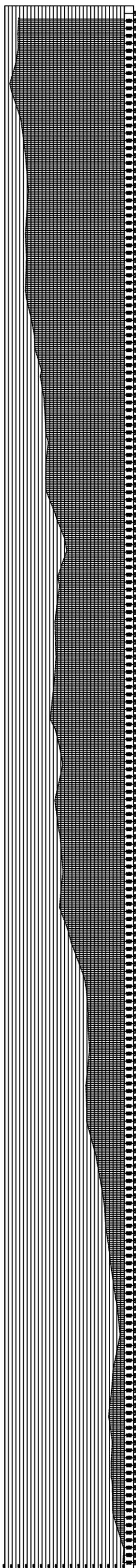
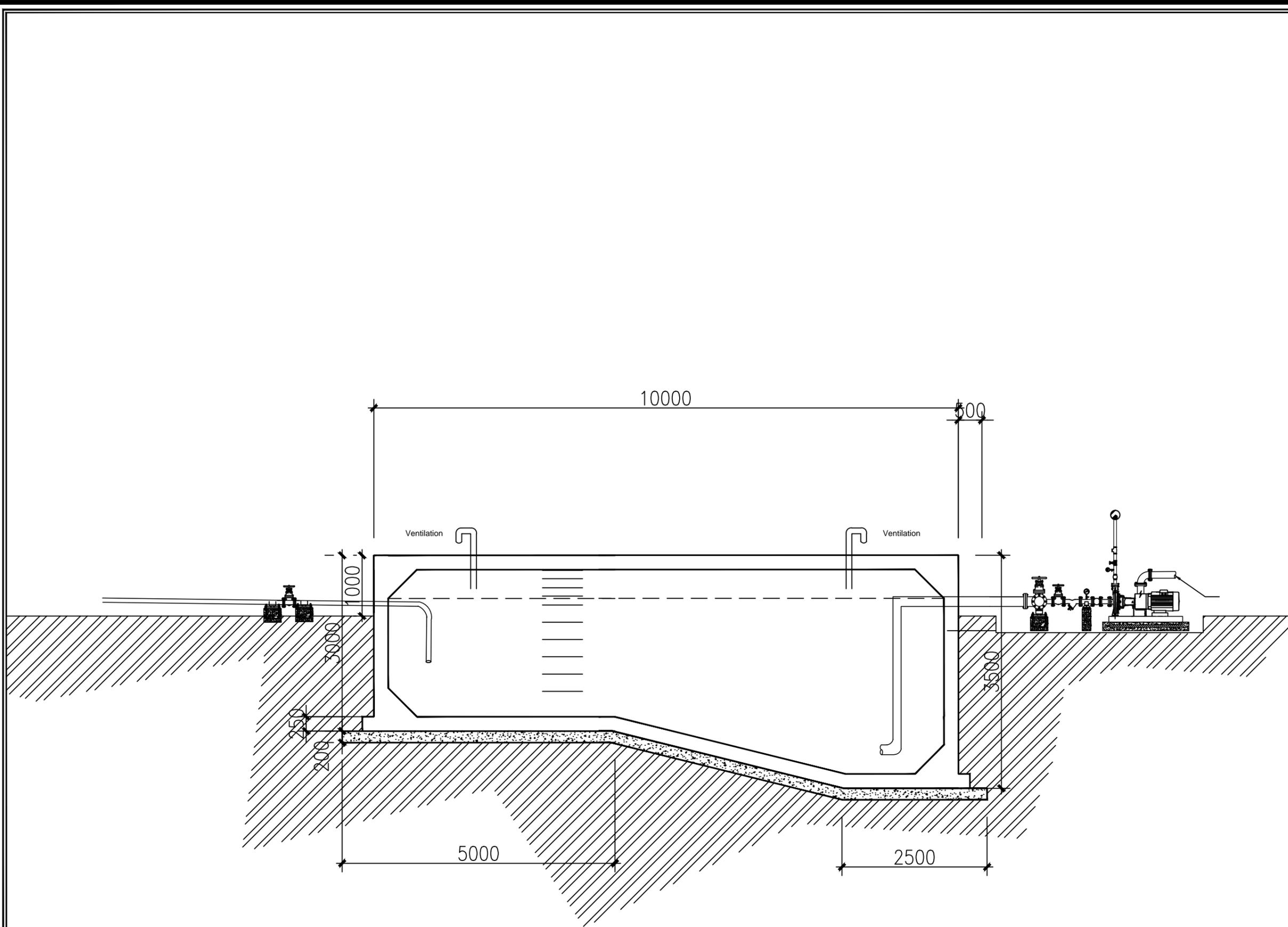


Figure 1 - 10 meters



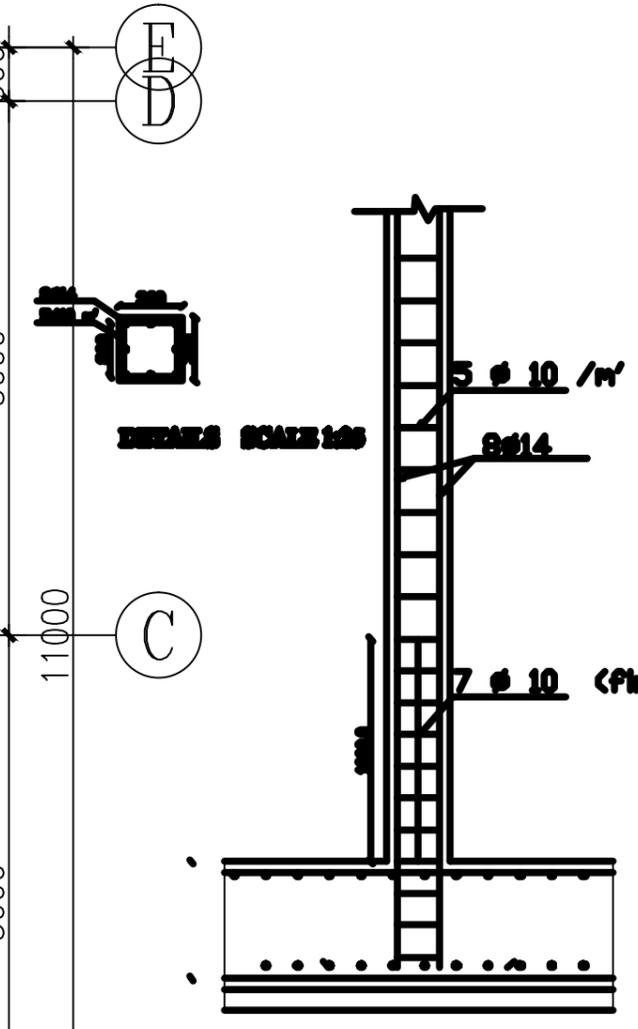
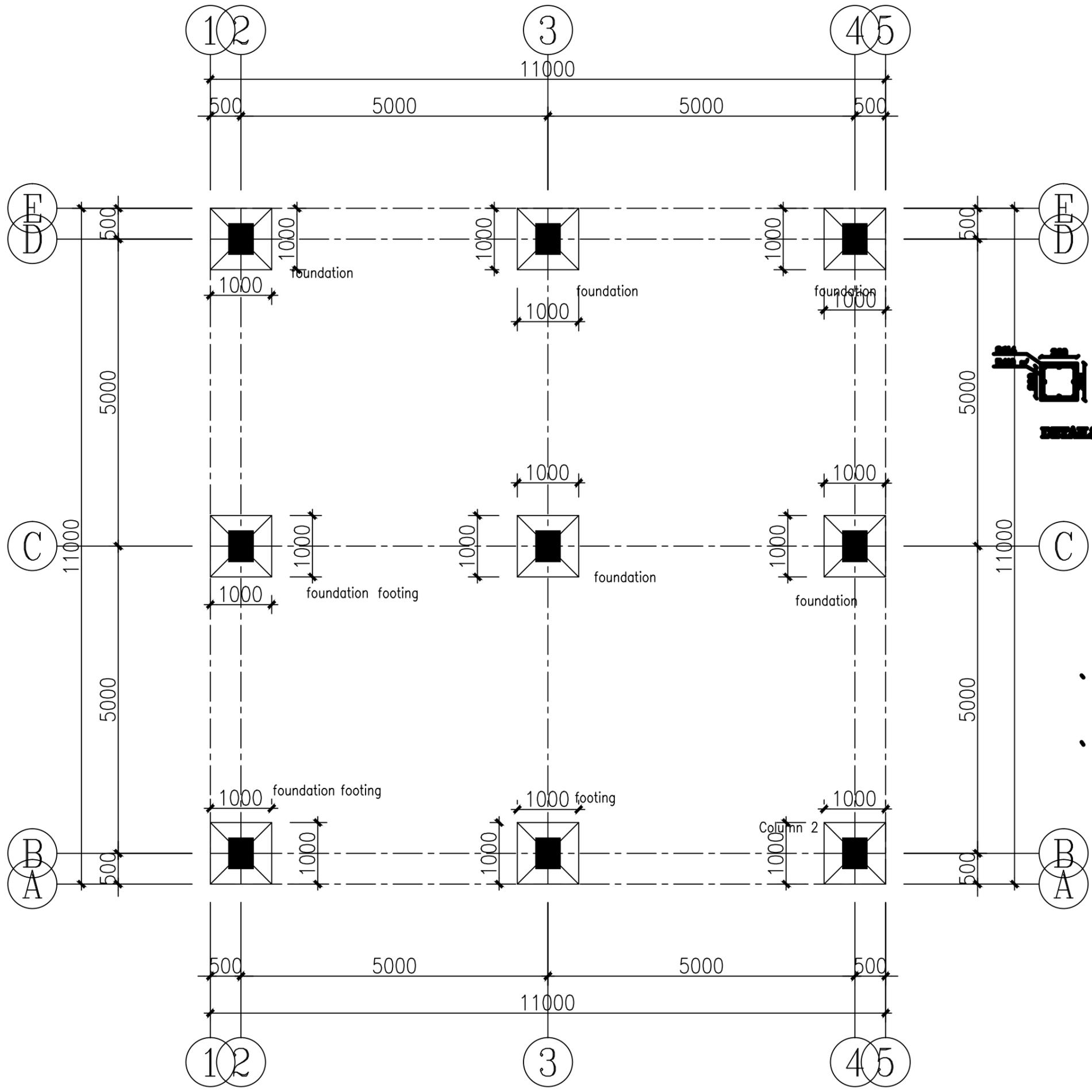


Rev. no.	Date	Description	Drw.	Checked



مشروع
انشاء خزان
PIPE LINE PROJECT

اسم اللوحة:	
رسم و تصميم ي.م.:	مراجعة:
رقم المخطط:	مقياس الرسم:



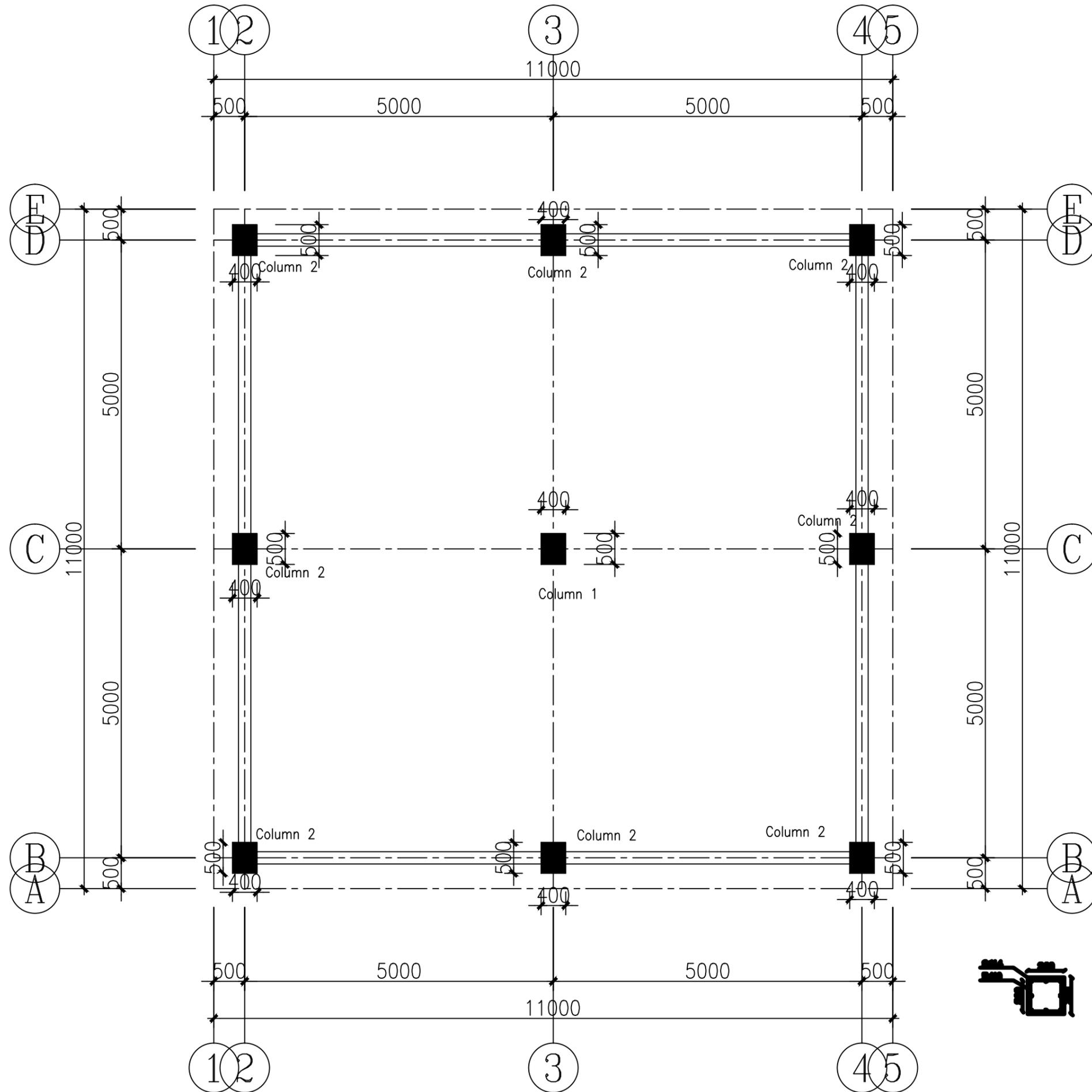
**(TYP) DETAIL FOR
COULOUN AND RAFT CONNECTION**

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PIPE LINE PROJECT

اسم اللوحه:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقاييس رسم:

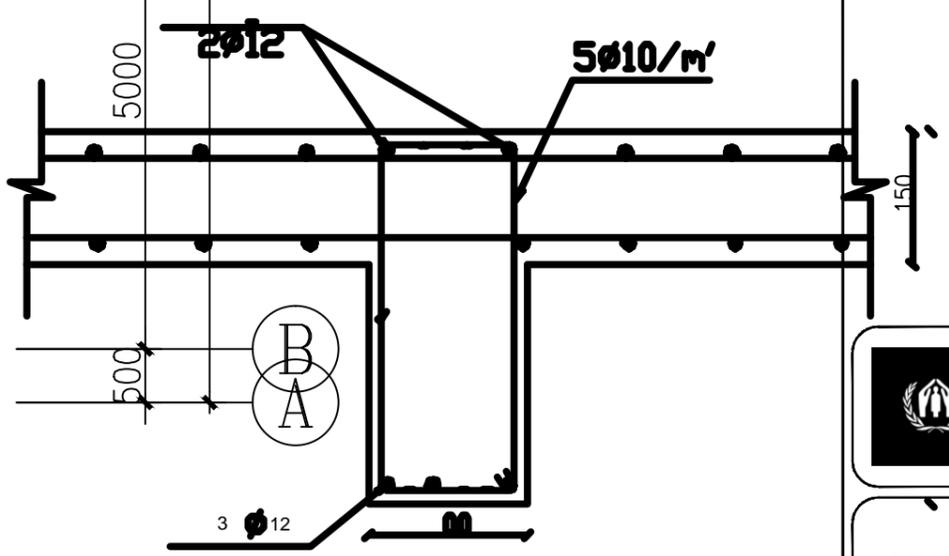
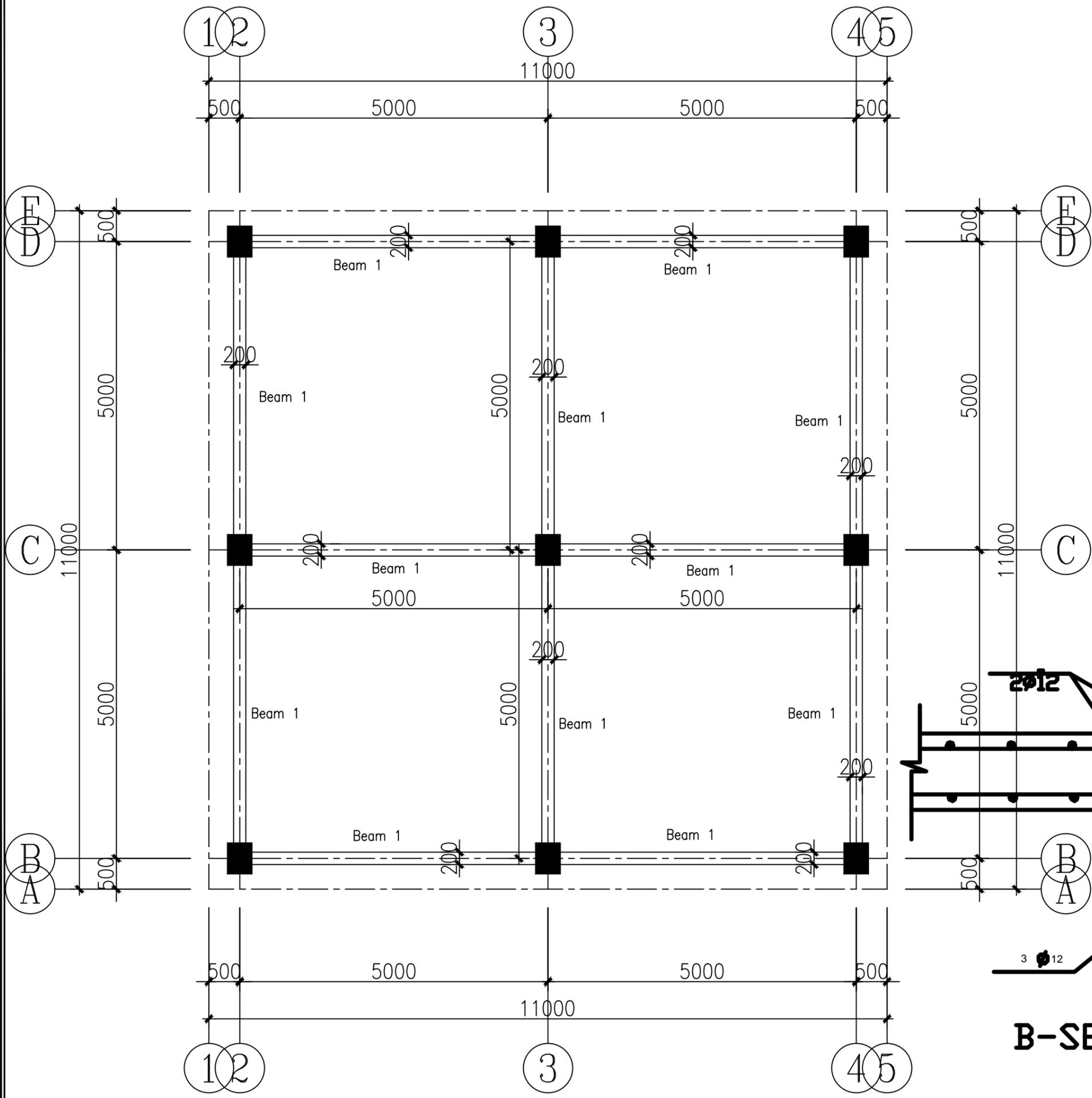


Rev. no.	Date	Description	Drw.	Checked



PIPE LINE PROJECT

اسم اللوحة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقياس الرسم:



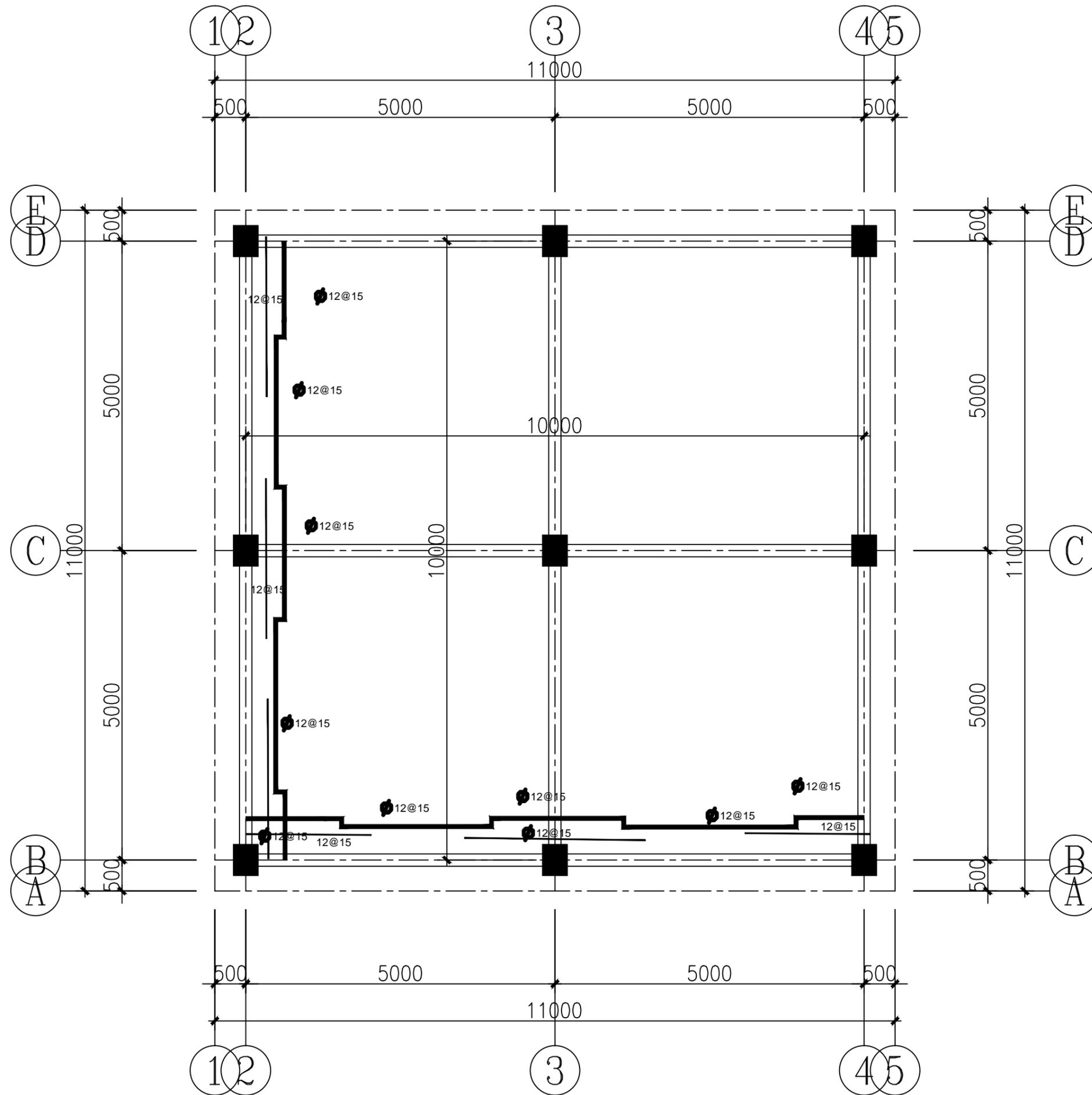
B-SECTION (TYP)

Rev. no.	Date	Description	Drw.	Checked



PIPE LINE PROJECT

اسم اللوحة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقياس الرسم:

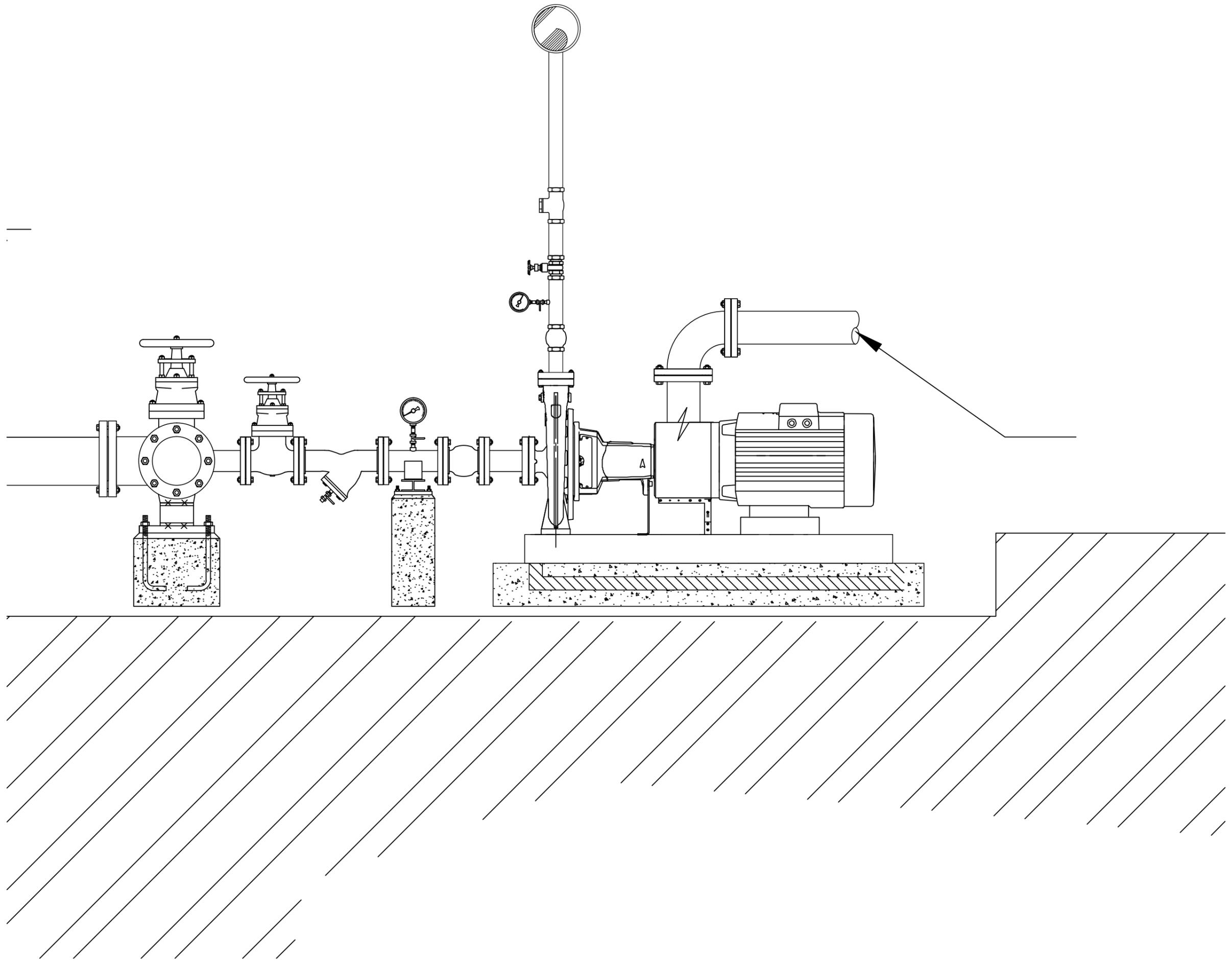


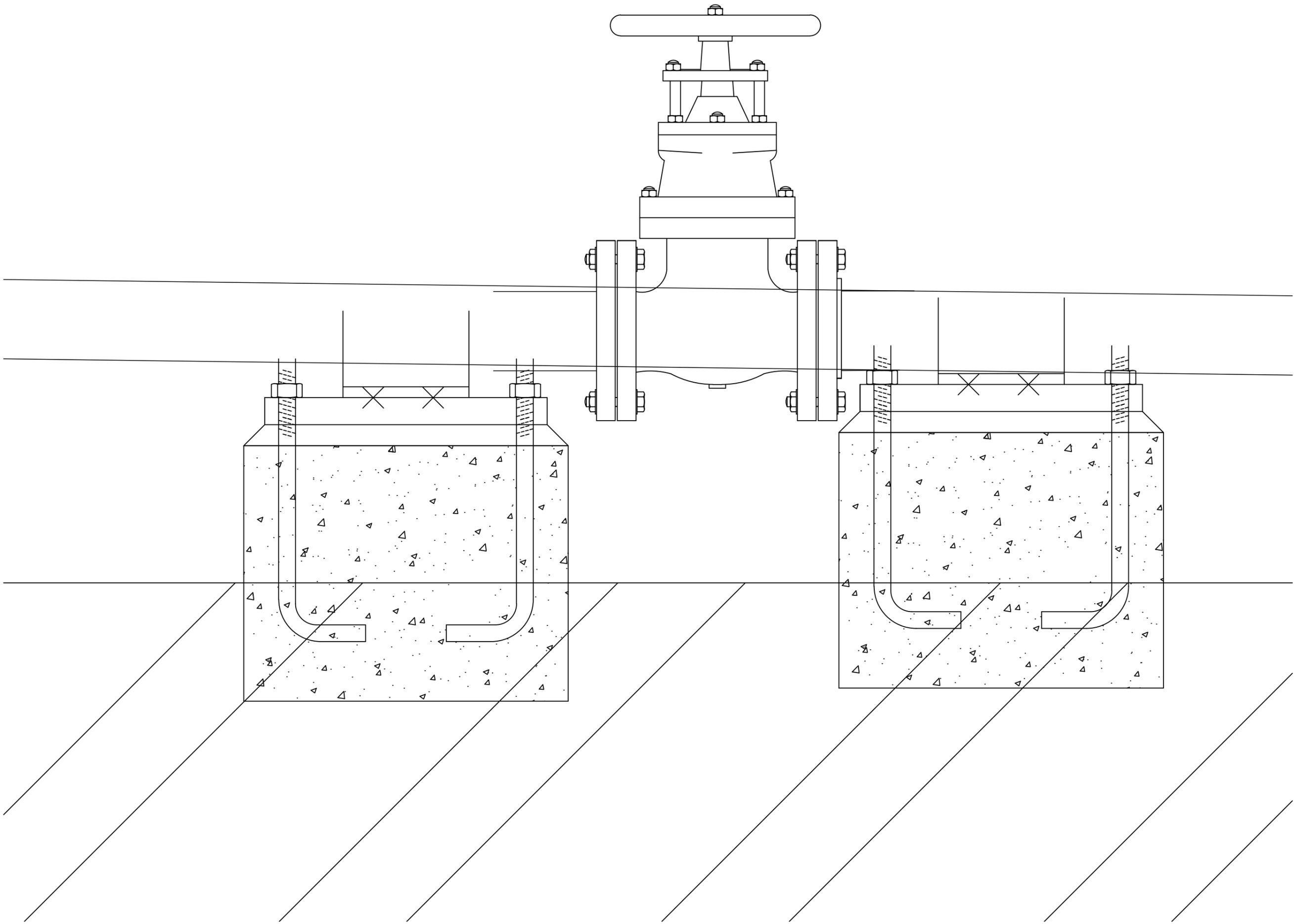
Rev. no.	Date	Description	Drw.	Checked

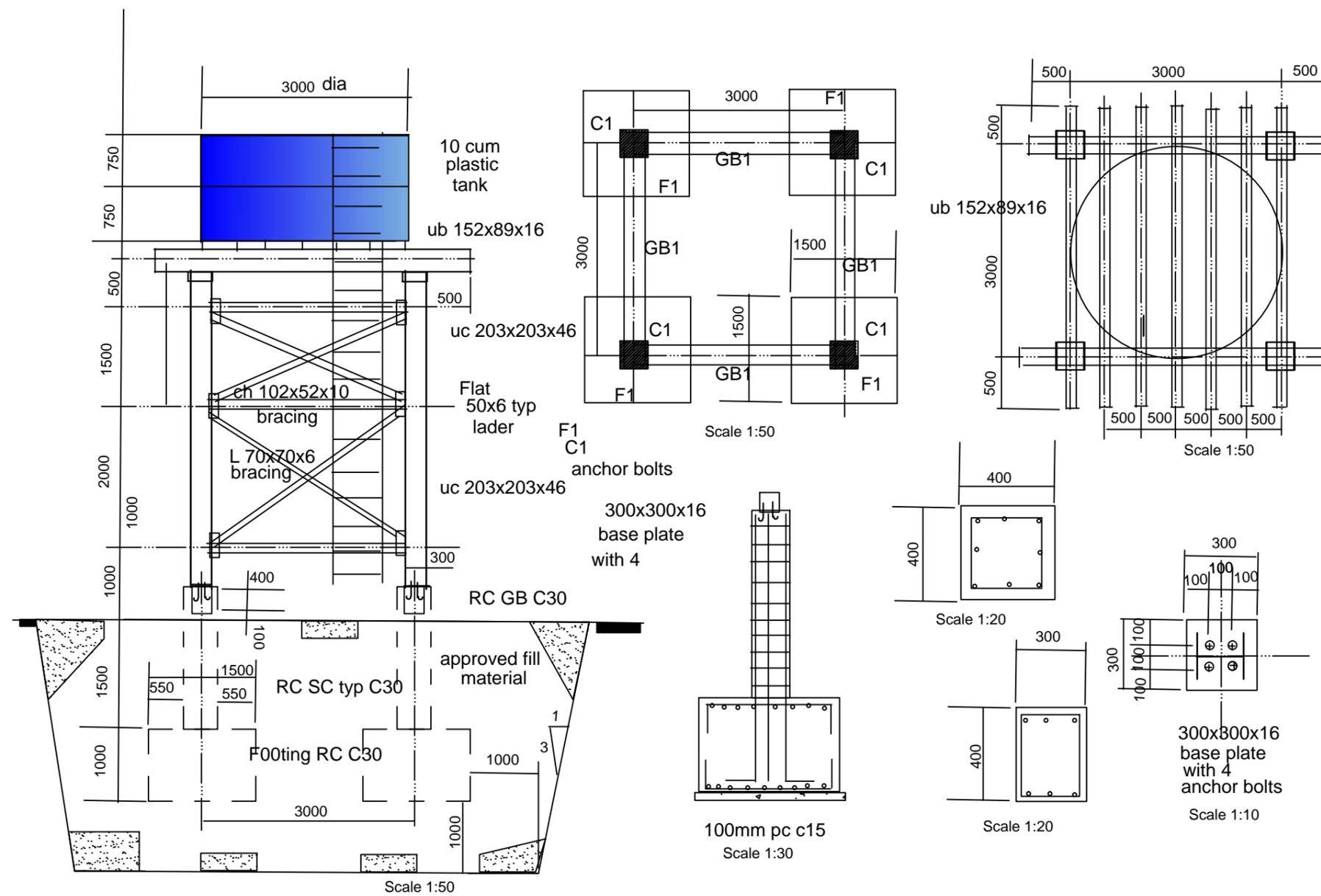


PIPE LINE PROJECT ١

اسم الذوخة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقياس الرسم:





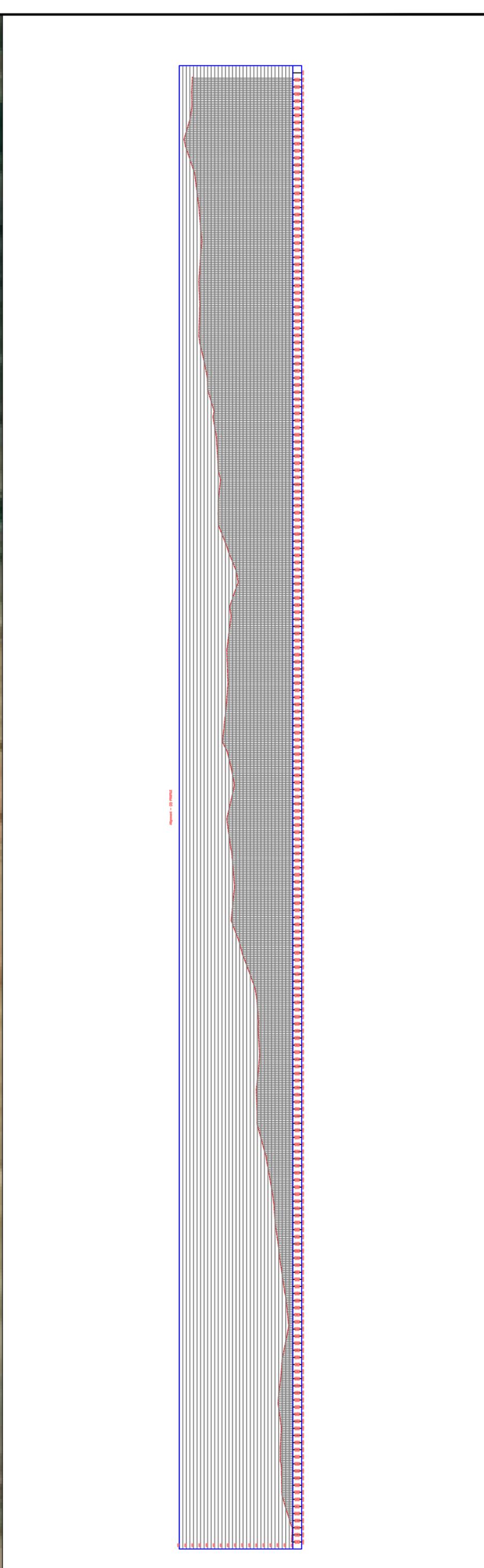


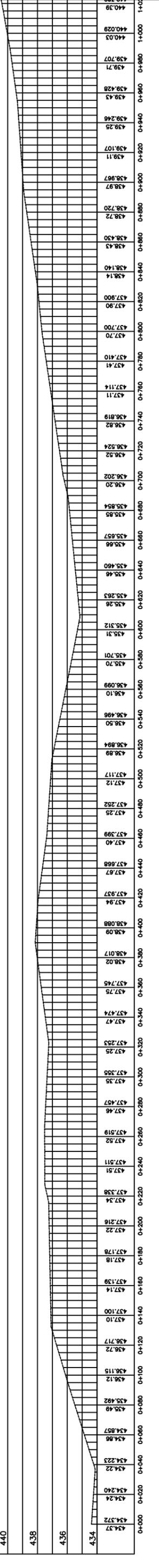
Rev. no.	Date	Description	Drw.	Checked



PIPE LINE PROJECT

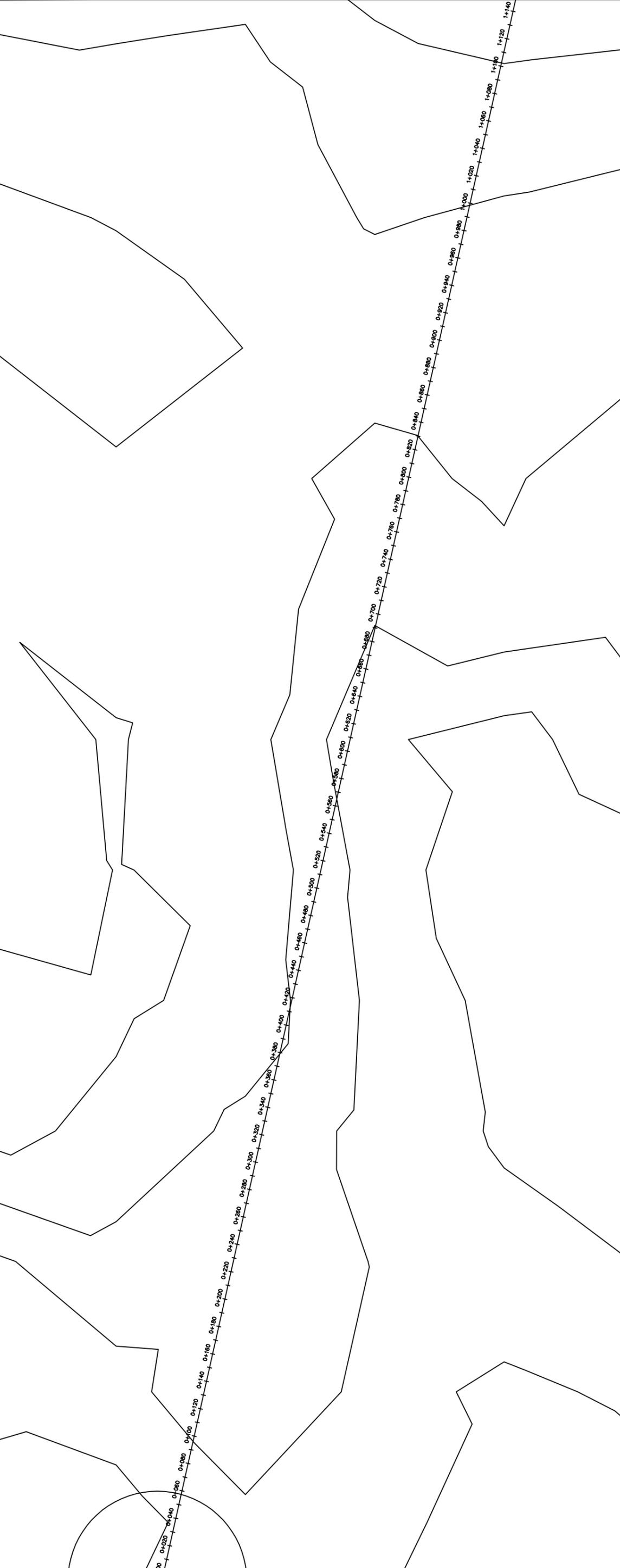
اسم اللوحة:	
رسم و تصميم	مراجعة:
رقم المخطط:	مقياس الرسم:

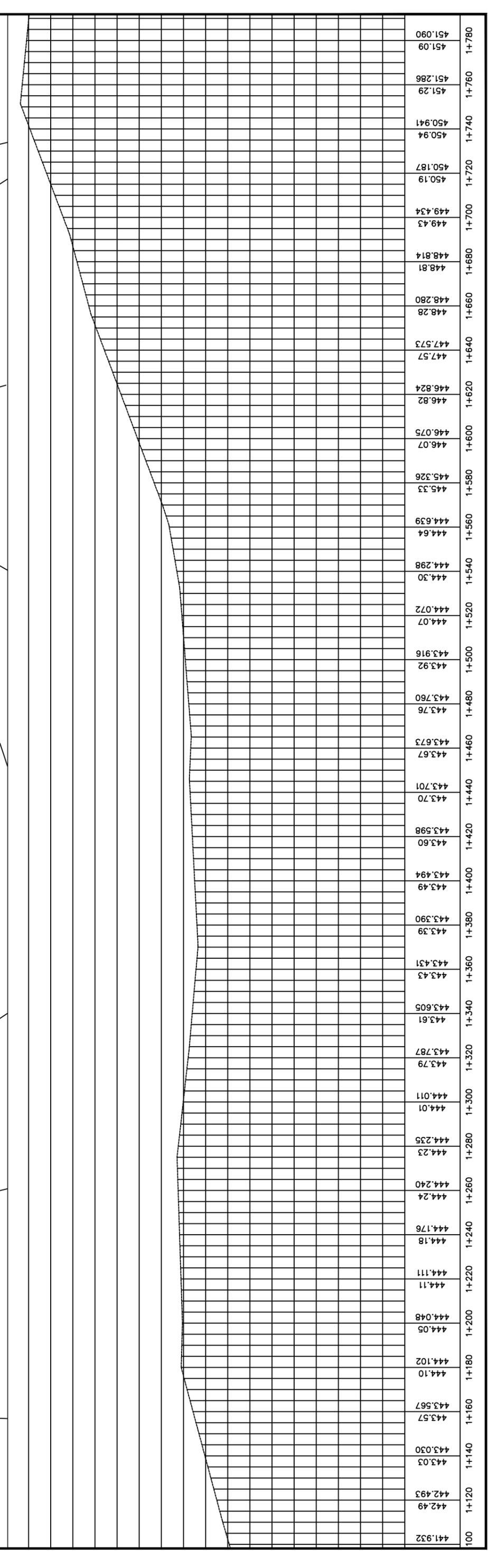
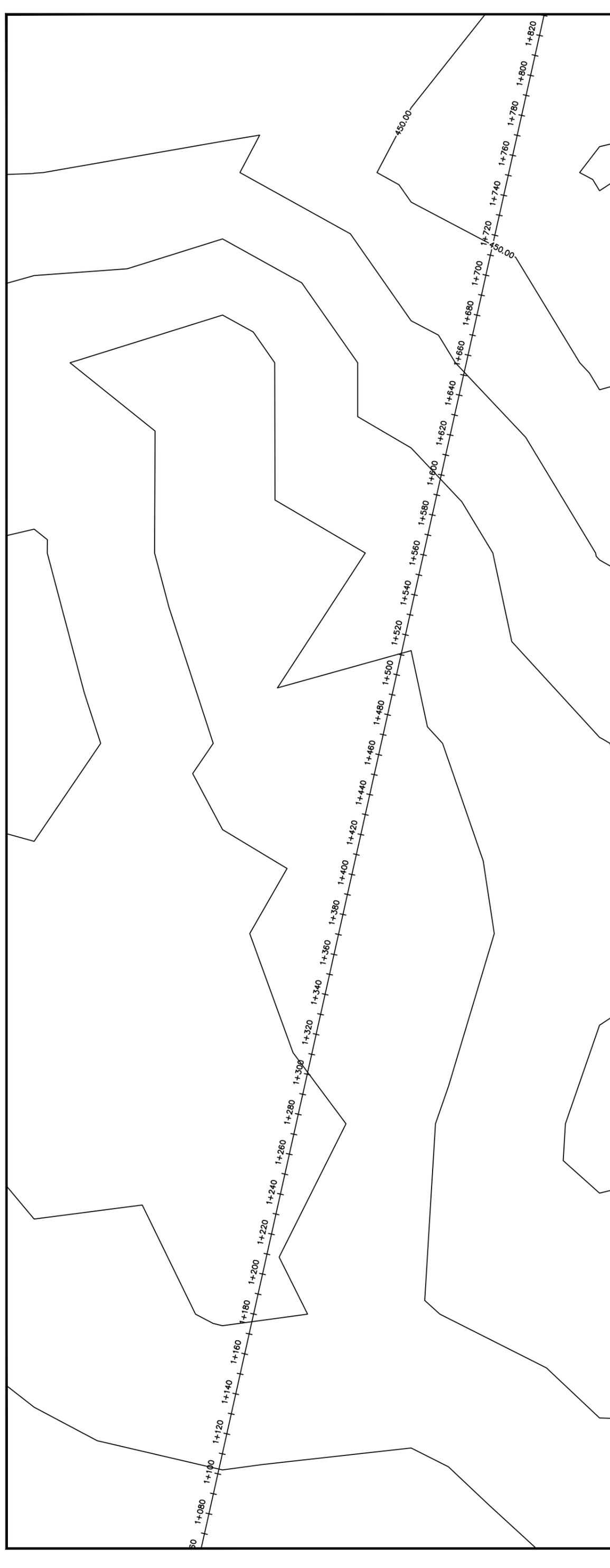




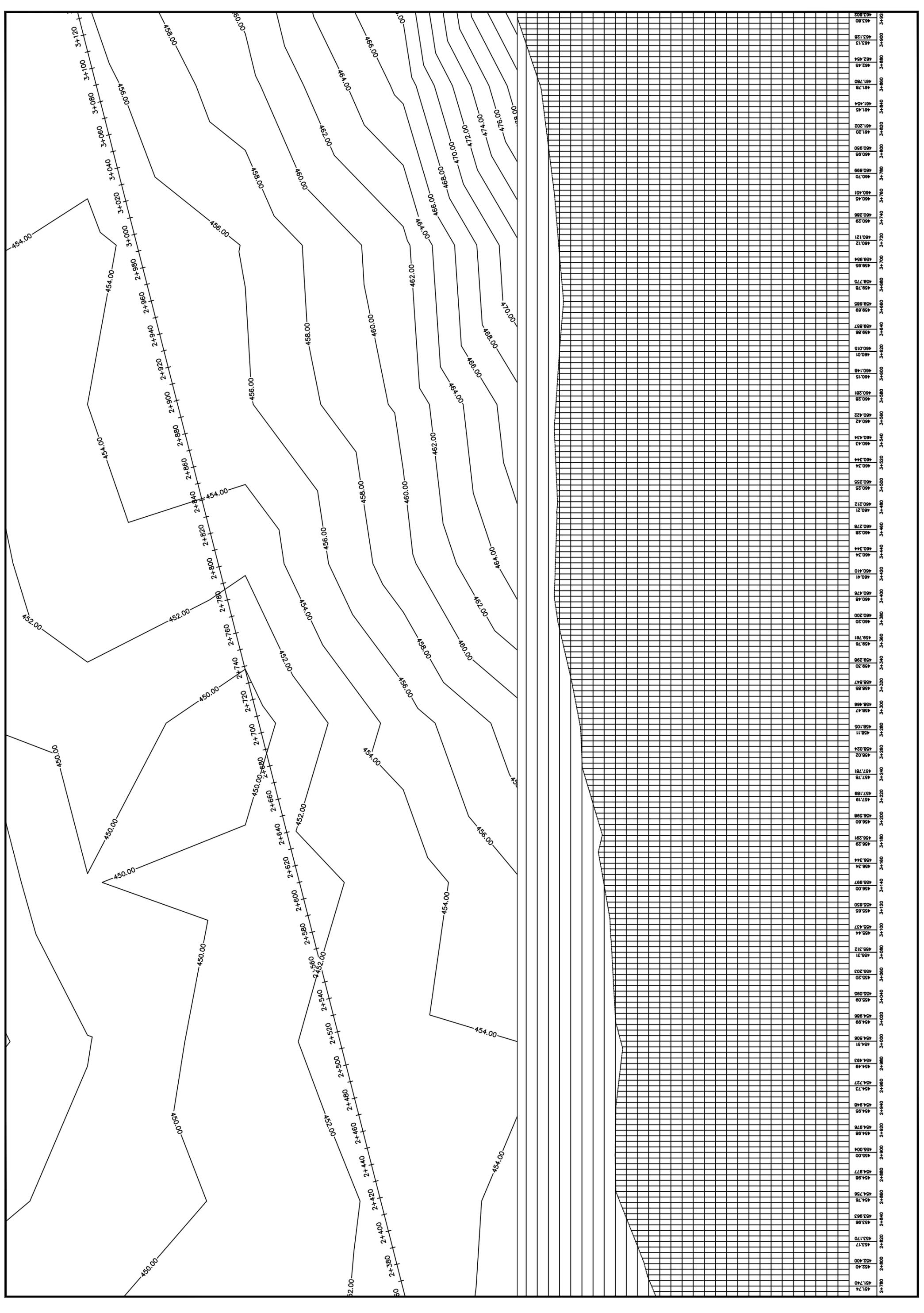
434.372	0+000
434.240	0+020
434.223	0+040
434.86	0+060
434.857	0+080
435.49	0+100
436.115	0+120
436.717	0+140
437.10	0+160
437.139	0+180
437.178	0+200
437.22	0+220
437.216	0+240
437.34	0+260
437.338	0+280
437.51	0+300
437.511	0+320
437.52	0+340
437.519	0+360
437.46	0+380
437.457	0+400
437.35	0+420
437.355	0+440
437.253	0+460
437.253	0+480
437.474	0+500
437.75	0+520
437.745	0+540
438.02	0+560
438.017	0+580
438.09	0+600
438.088	0+620
437.94	0+640
437.937	0+660
437.67	0+680
437.668	0+700
437.40	0+720
437.399	0+740
437.25	0+760
437.252	0+780
437.12	0+800
437.117	0+820
436.89	0+840
436.894	0+860
436.50	0+880
436.496	0+900
436.10	0+920
436.099	0+940
435.70	0+960
435.701	0+980
435.312	1+000
435.263	1+020
435.46	1+040
435.460	1+060
435.66	1+080
435.657	1+100
435.85	1+120
435.854	1+140
436.20	1+160
436.202	1+180
436.524	1+200
436.52	1+220
436.82	1+240
436.819	1+260
437.11	1+280
437.114	1+300
437.41	1+320
437.410	1+340
437.70	1+360
437.700	1+380
437.90	1+400
437.900	1+420
438.14	1+440
438.140	1+460
438.43	1+480
438.430	1+500
438.72	1+520
438.720	1+540
438.97	1+560
438.967	1+580
439.11	1+600
439.107	1+620
439.25	1+640
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439.43	1+680
439.428	1+700
439.71	1+720
440.028	1+740
440.39	1+760

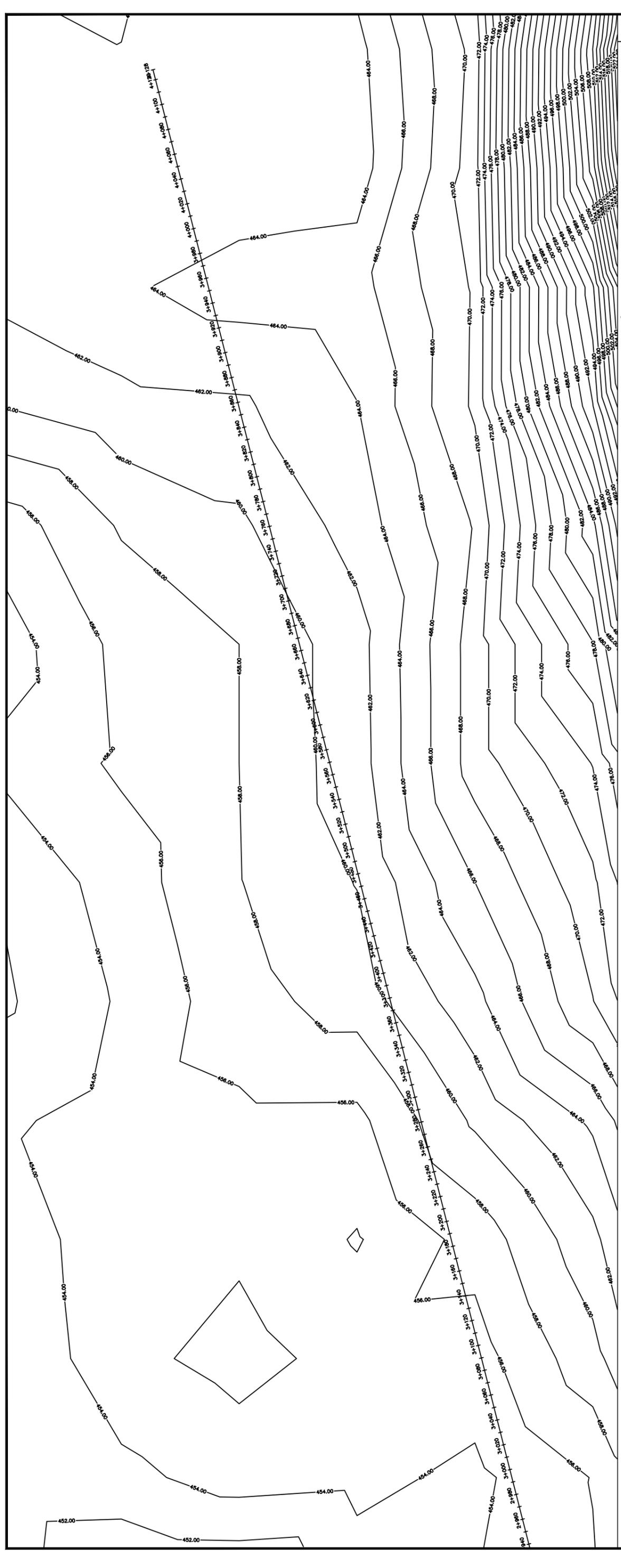
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462	460	458	456	454	452	450	448	446	444	442



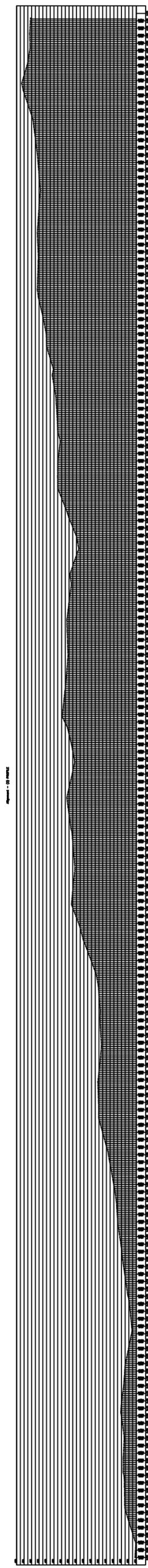
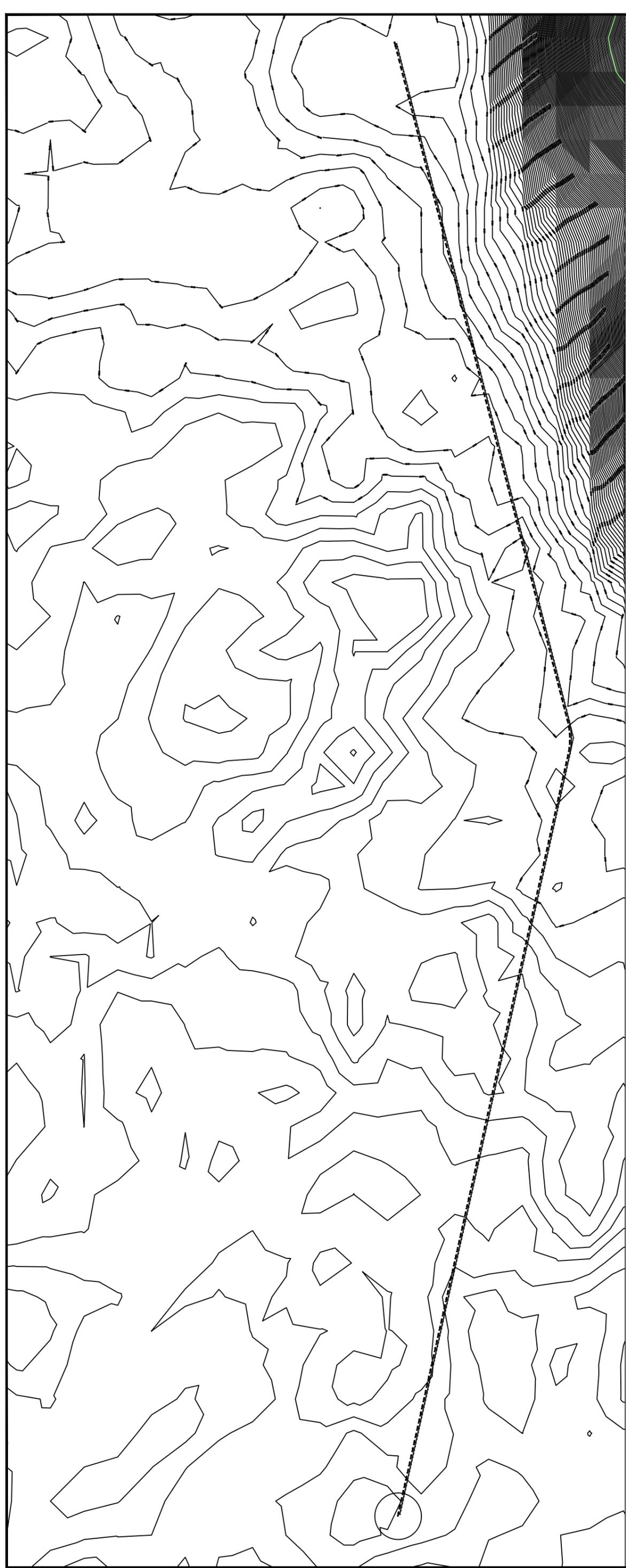


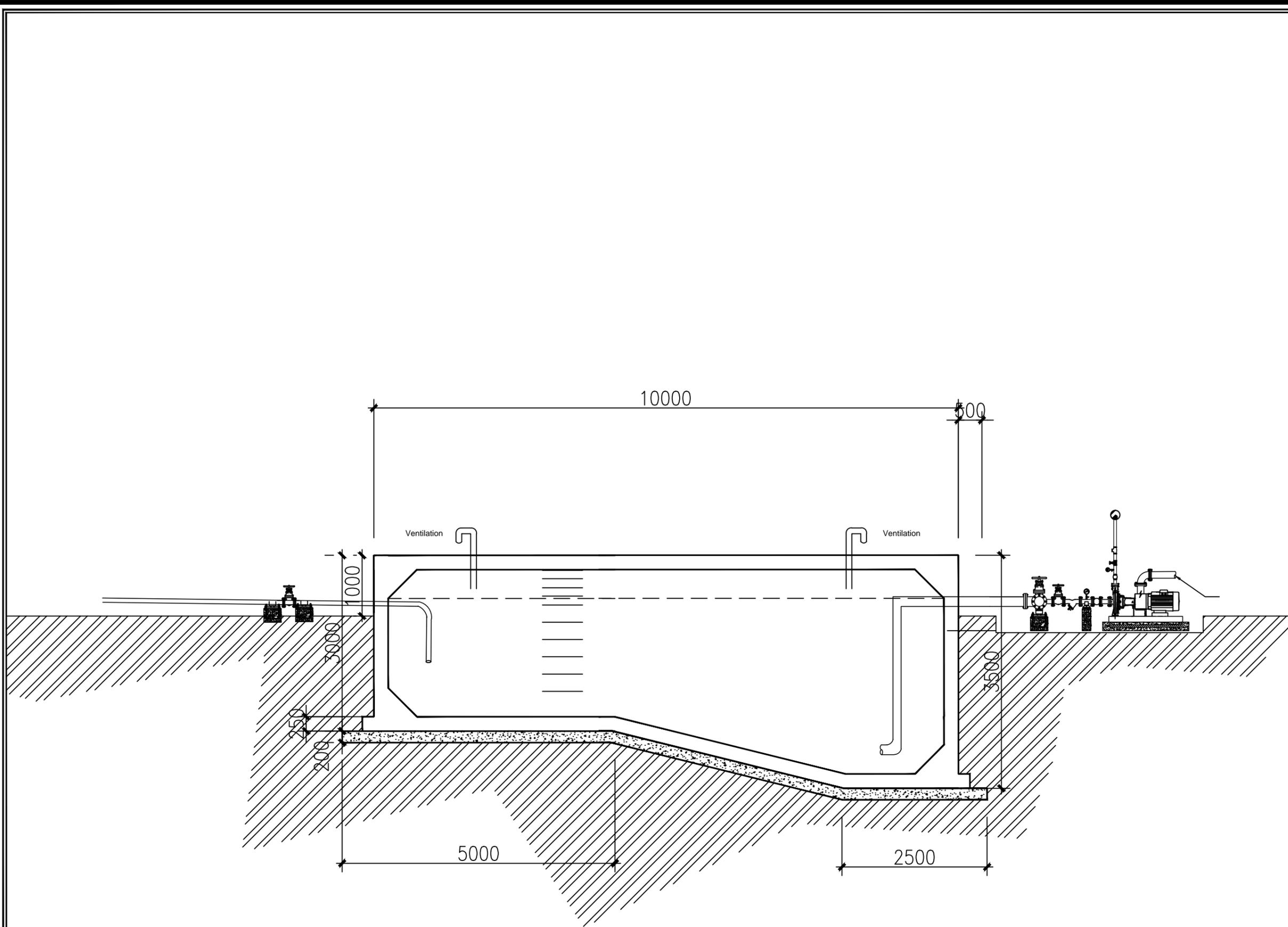
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442.493	1+120
443.030	1+140
443.57	1+160
444.10	1+180
444.05	1+200
444.048	1+200
444.11	1+220
444.111	1+220
444.18	1+240
444.176	1+240
444.24	1+260
444.240	1+260
444.235	1+280
444.01	1+300
444.011	1+300
443.79	1+320
443.787	1+320
443.61	1+340
443.605	1+340
443.43	1+360
443.431	1+360
443.39	1+380
443.390	1+380
443.49	1+400
443.494	1+400
443.60	1+420
443.598	1+420
443.70	1+440
443.701	1+440
443.67	1+460
443.673	1+460
443.76	1+480
443.760	1+480
443.92	1+500
443.916	1+500
444.07	1+520
444.072	1+520
444.30	1+540
444.298	1+540
444.64	1+560
444.639	1+560
445.33	1+580
445.326	1+580
446.07	1+600
446.075	1+600
446.82	1+620
446.824	1+620
447.57	1+640
447.573	1+640
448.28	1+660
448.280	1+660
448.81	1+680
448.814	1+680
449.43	1+700
449.434	1+700
450.19	1+720
450.187	1+720
450.94	1+740
450.941	1+740
451.29	1+760
451.286	1+760
451.09	1+780
451.090	1+780





455.09	3+000
455.20	3+080
455.203	3+080
455.312	3+080
455.31	3+080
455.44	3+100
455.57	3+100
455.65	3+120
455.650	3+120
455.80	3+120
455.898	3+200
457.189	3+220
457.19	3+220
457.78	3+240
457.781	3+240
458.024	3+260
458.024	3+260
458.11	3+280
458.105	3+280
458.47	3+300
458.55	3+320
458.547	3+320
459.30	3+340
459.298	3+340
459.78	3+360
459.781	3+360
460.20	3+380
460.200	3+380
460.48	3+400
460.478	3+400
460.410	3+420
460.34	3+440
460.28	3+460
460.278	3+460
460.21	3+480
460.212	3+480
460.250	3+500
460.34	3+520
460.344	3+520
460.434	3+540
460.43	3+540
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460.422	3+560
460.281	3+580
460.18	3+600
460.148	3+600
460.015	3+620
459.88	3+640
459.857	3+640
459.89	3+660
459.78	3+680
459.775	3+680
459.95	3+700
459.954	3+700
460.12	3+720
460.121	3+720
460.28	3+740
460.286	3+740
460.45	3+760
460.451	3+760
460.698	3+780
460.95	3+800
460.950	3+800
461.20	3+820
461.202	3+820
461.454	3+840
461.45	3+840
461.78	3+860
461.780	3+860
462.454	3+880
462.45	3+880
463.128	3+900
463.802	3+920
464.38	3+940
464.379	3+940
464.43	3+960
463.841	3+980
463.28	4+000
463.256	4+000
462.83	4+020
462.828	4+020
462.53	4+040
462.430	4+060
462.49	4+080
462.43	4+100
462.332	4+120



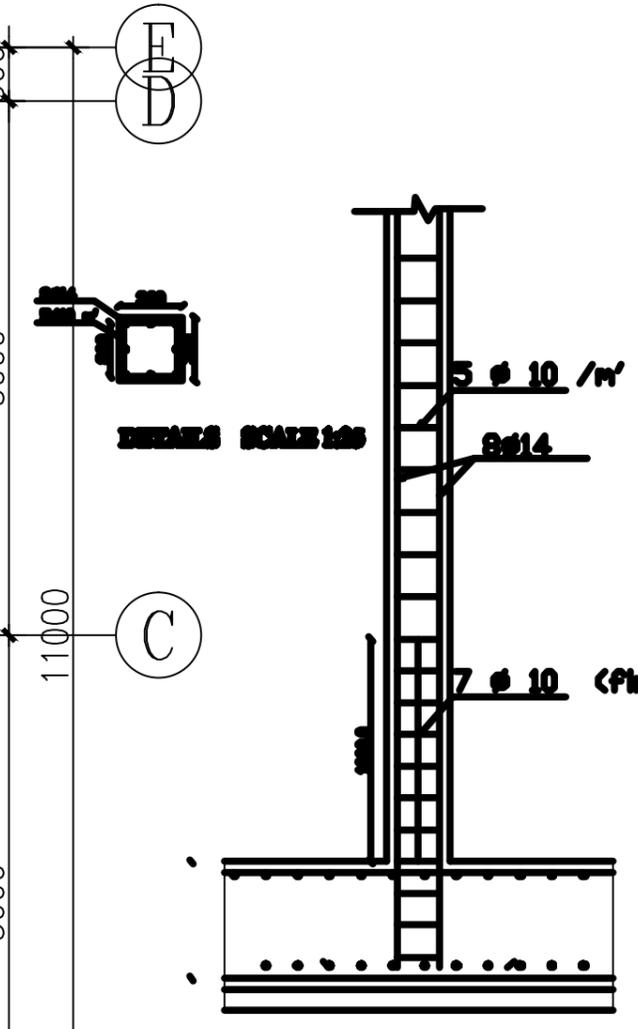
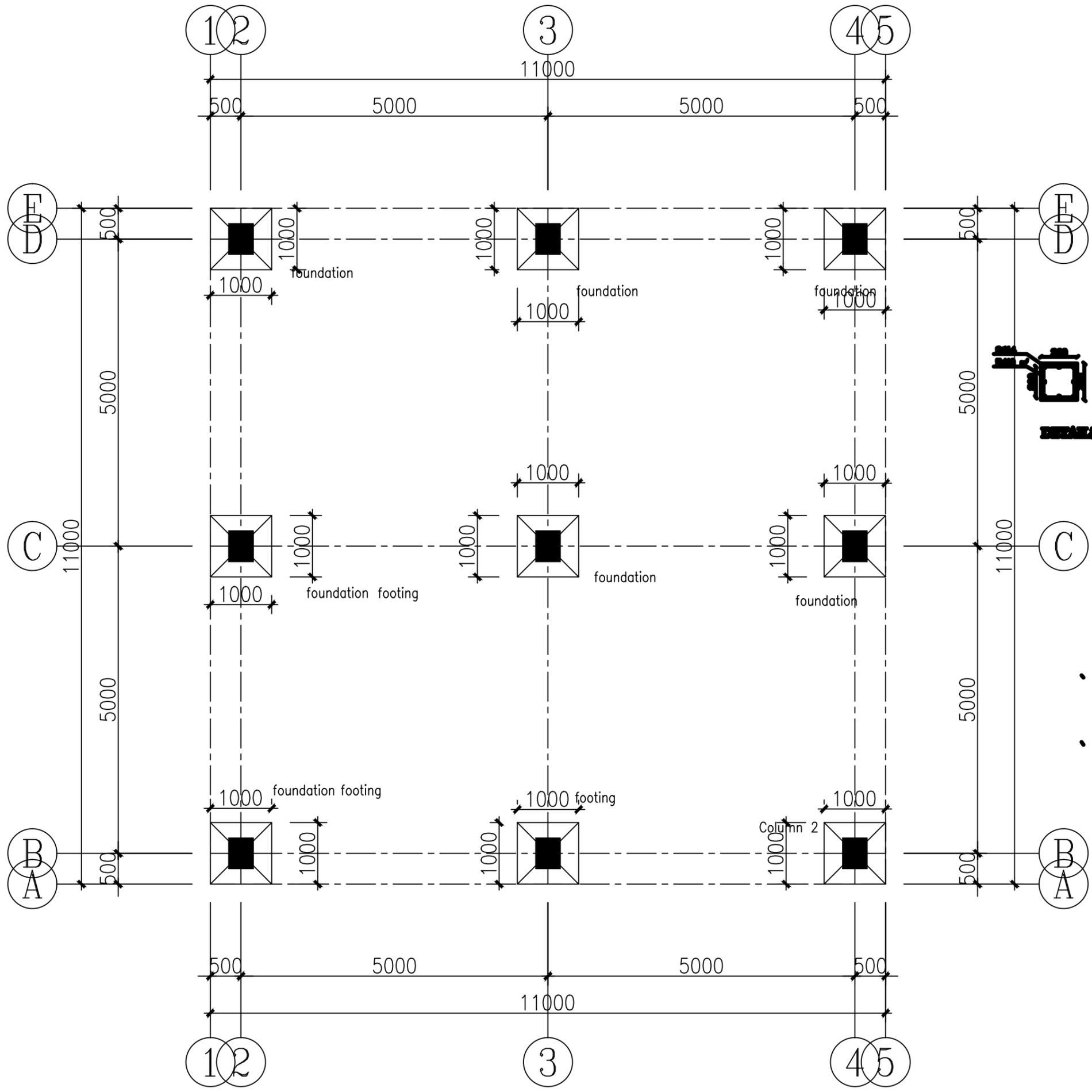


Rev. no.	Date	Description	Drw.	Checked



مشروع
انشاء خزان
PIPE LINE PROJECT

اسم اللوحة:	
رسم و تصميم ي.م.:	مراجعة:
رقم المخطط:	مقياس الرسم:



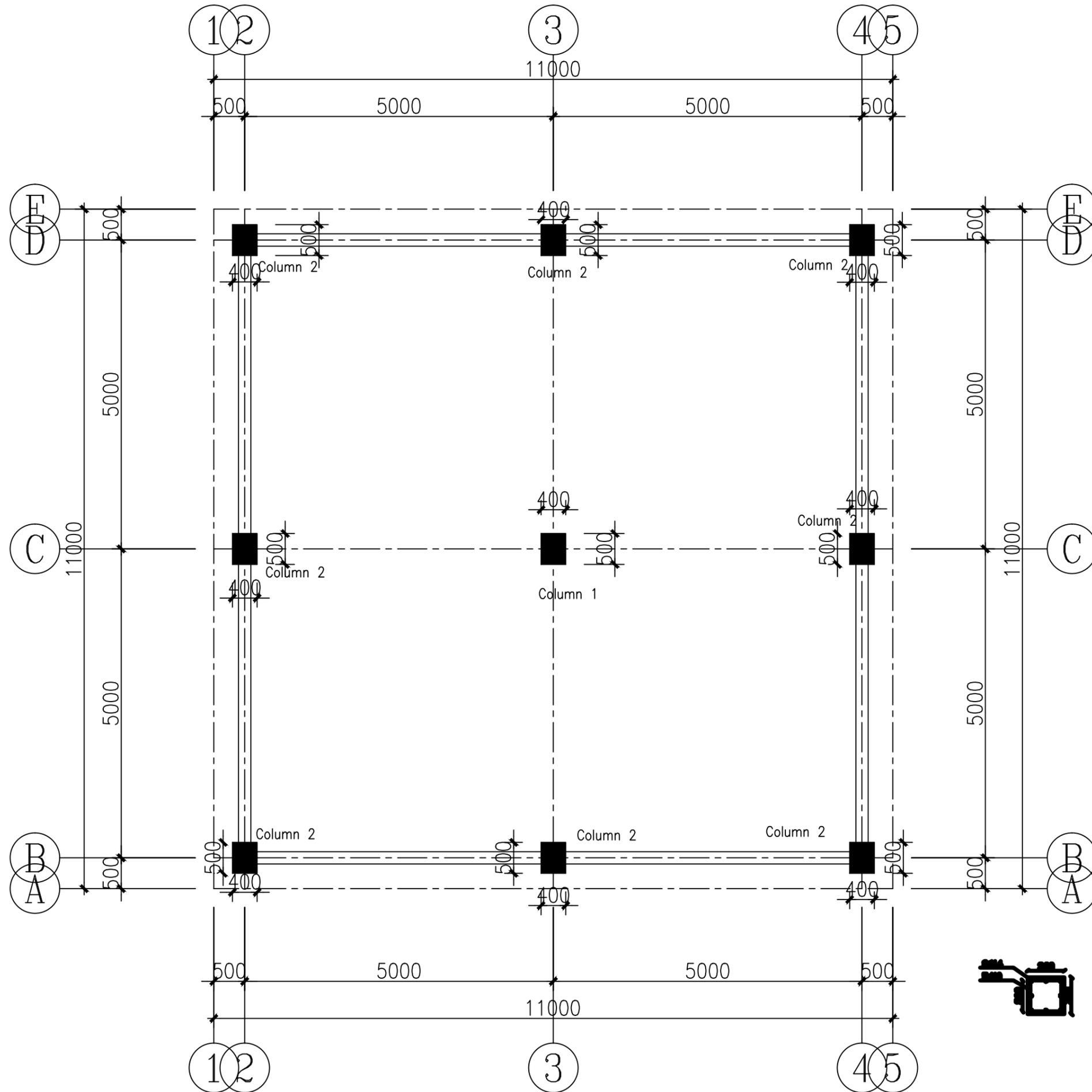
**(TYP) DETAIL FOR
COLUMN AND RAFT CONNECTION**

Rev. no.	Date	Description	Drw.	Checked



PIPE LINE PROJECT

اسم اللوحه:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقاييس رسم:

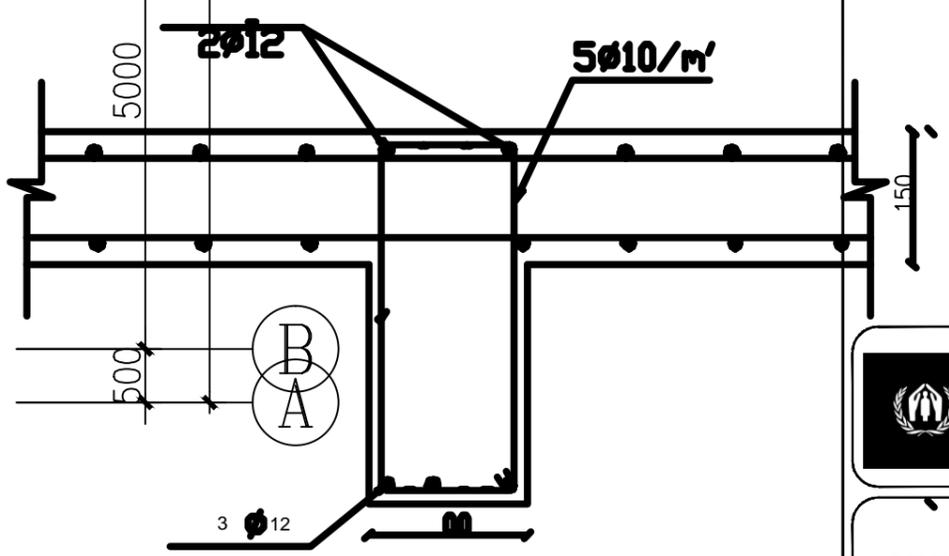
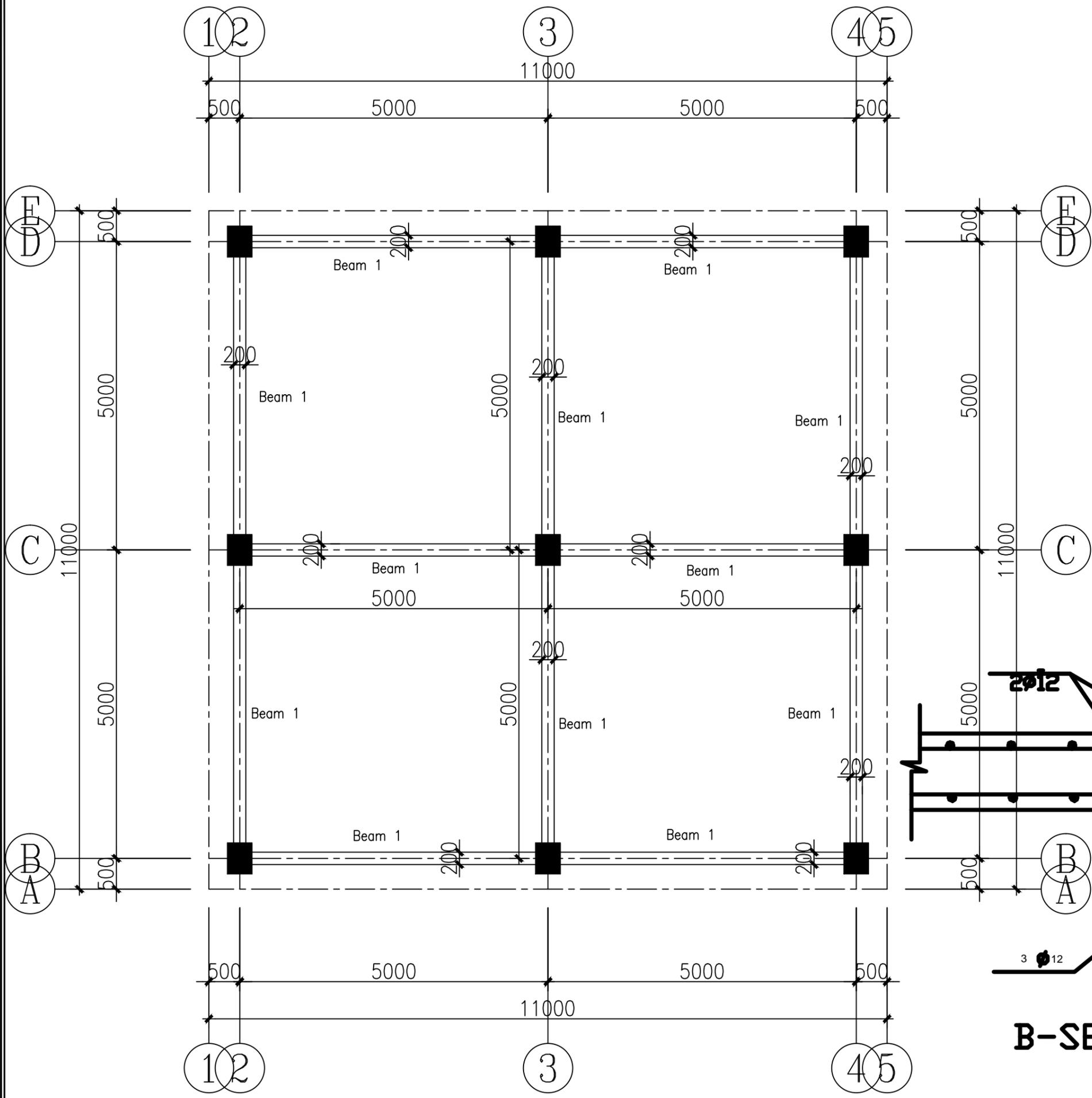


Rev. no.	Date	Description	Drw.	Checked



PIPE LINE PROJECT

اسم اللوحة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقياس الرسم:



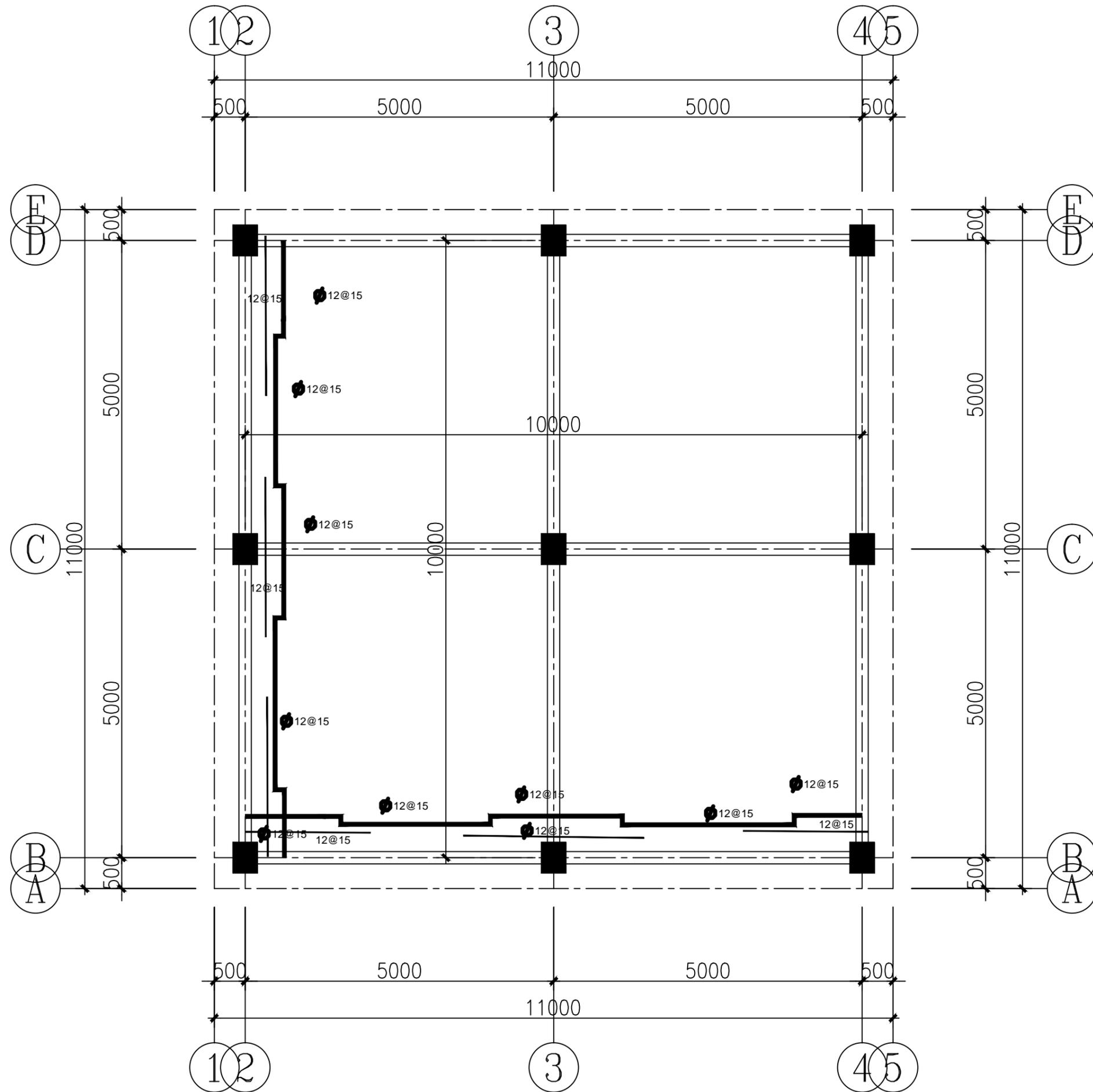
B-SECTION (TYP)

Rev. no.	Date	Description	Drw.	Checked



PIPE LINE PROJECT

اسم اللوحة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقياس الرسم:

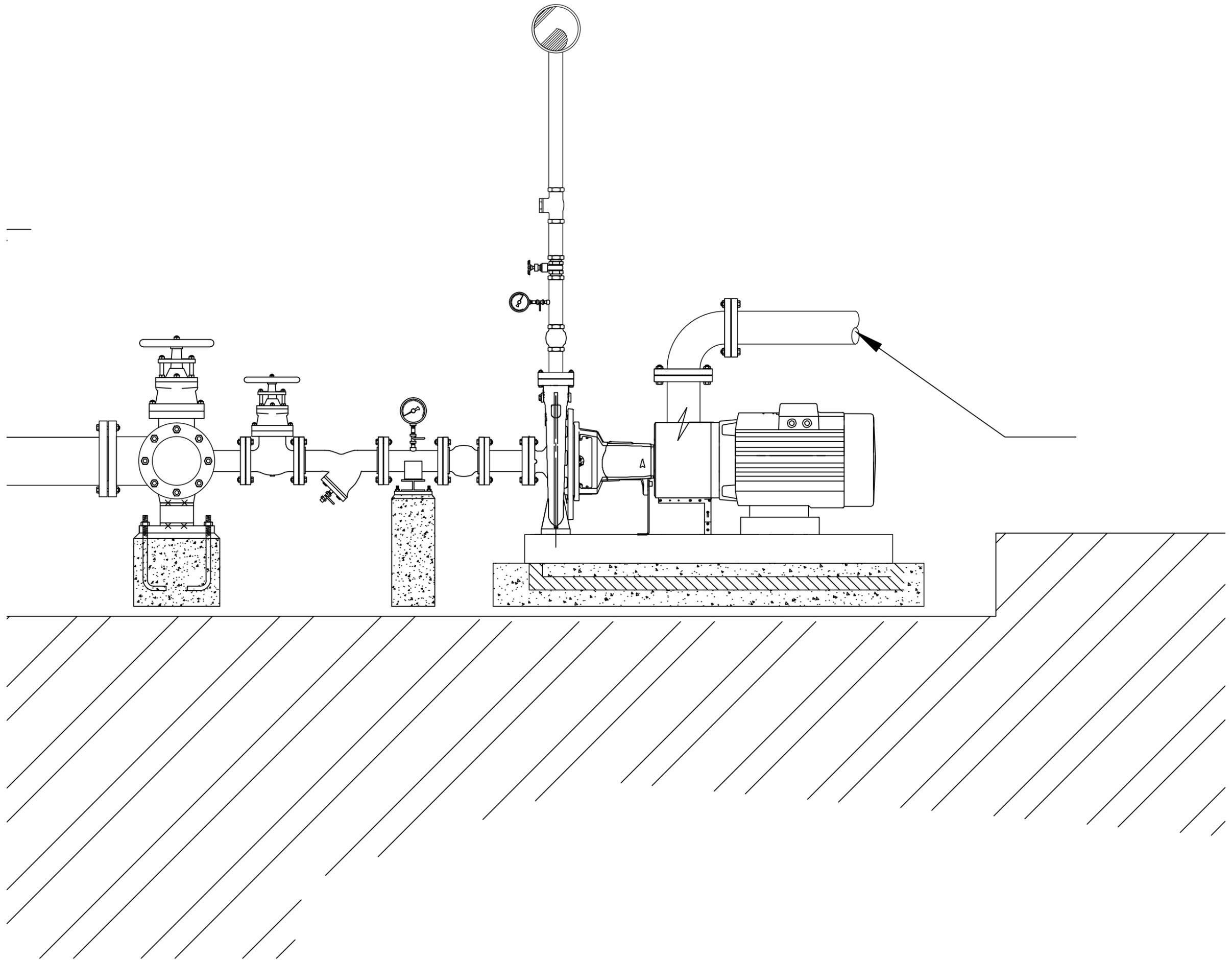


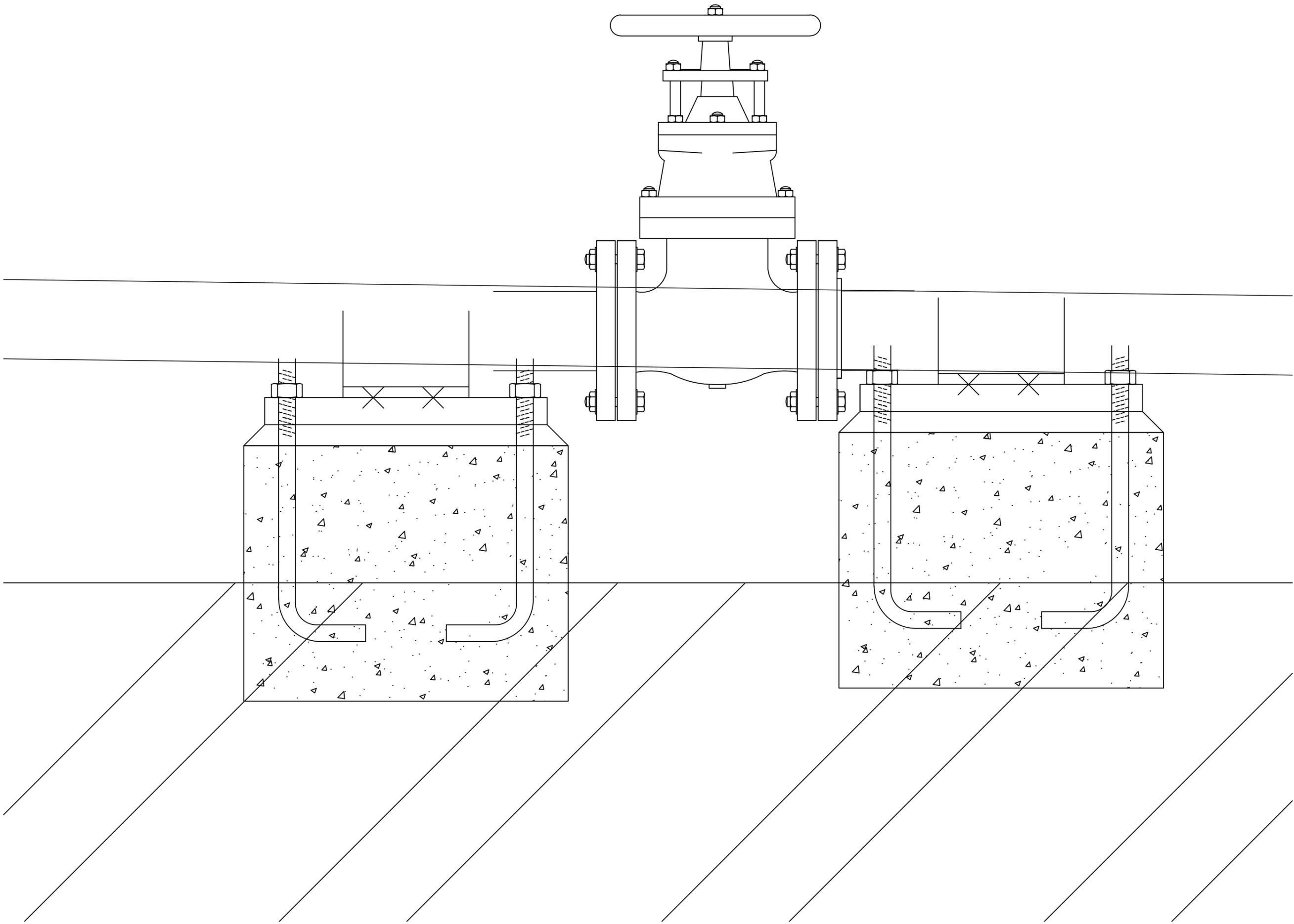
Rev. no.	Date	Description	Drw.	Checked

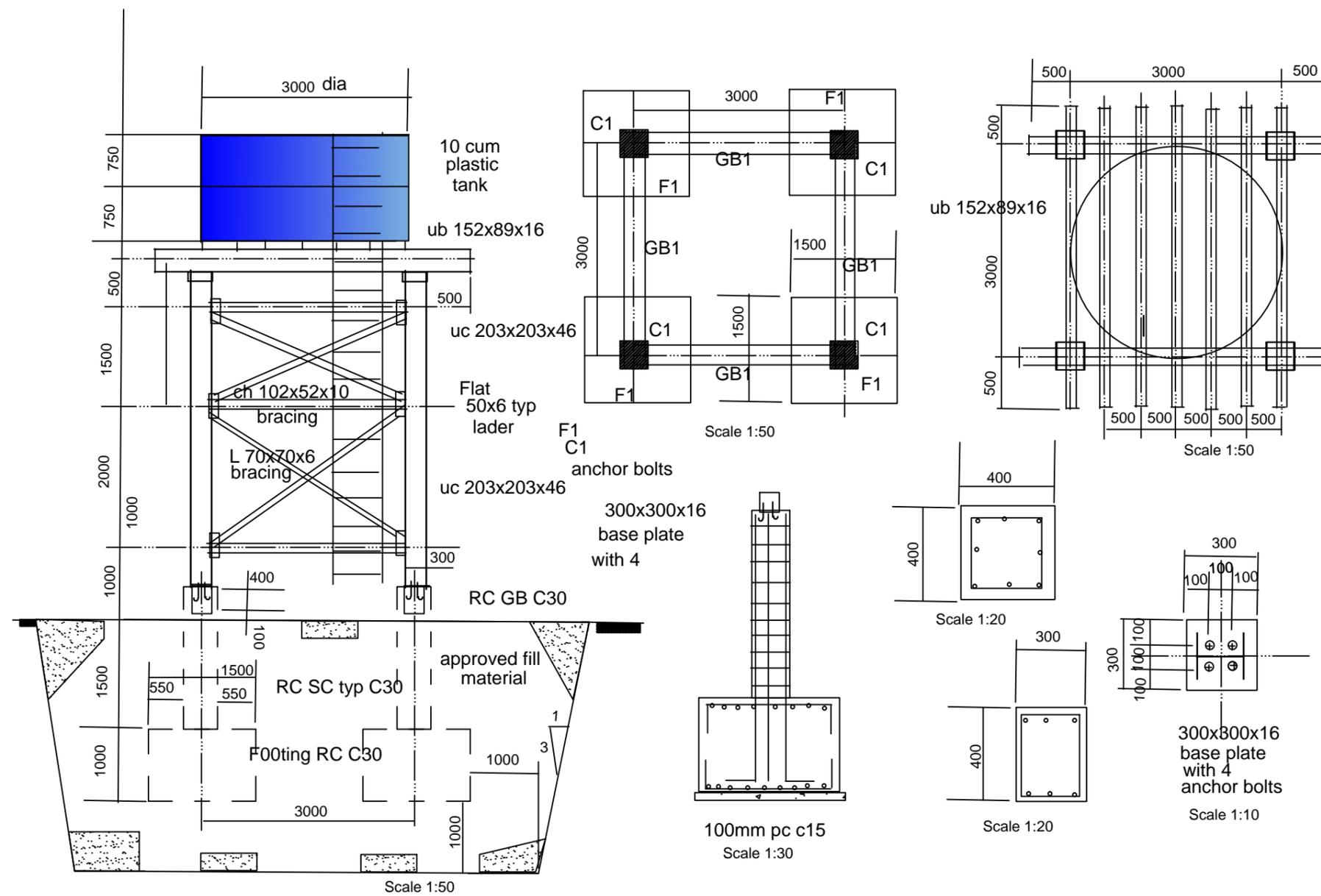


PIPE LINE PROJECT ١

اسم الذوخة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقياس الرسم:





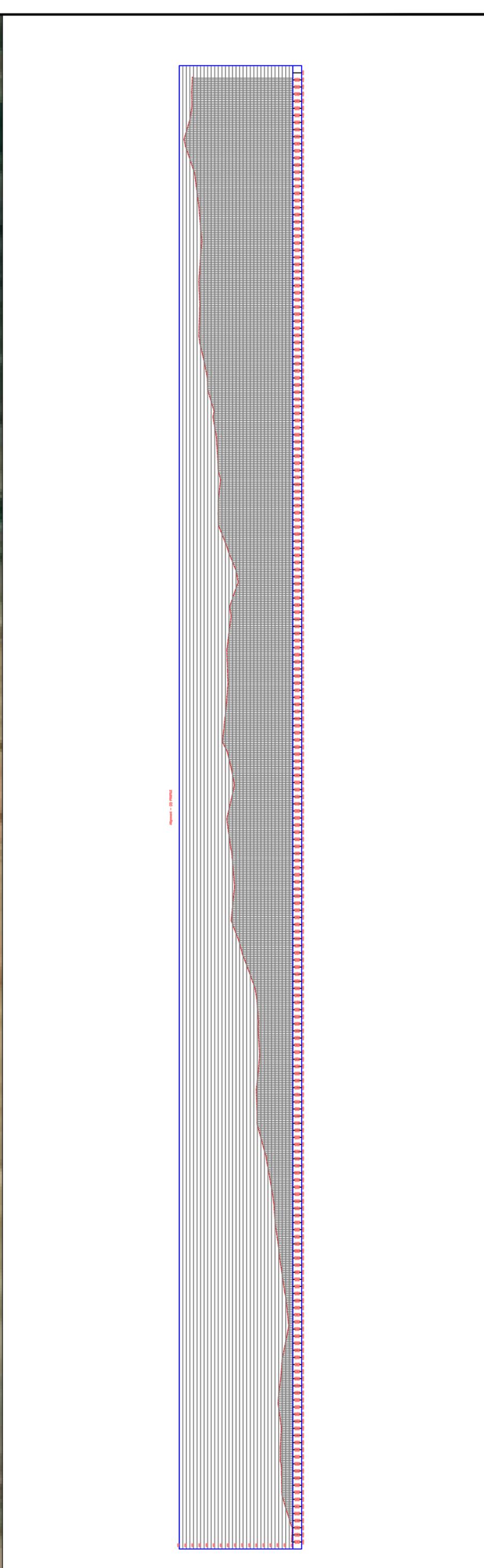


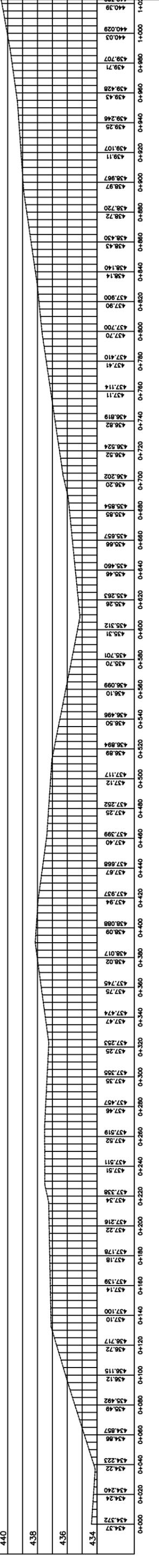
Rev. no.	Date	Description	Drw.	Checked



PIPE LINE PROJECT

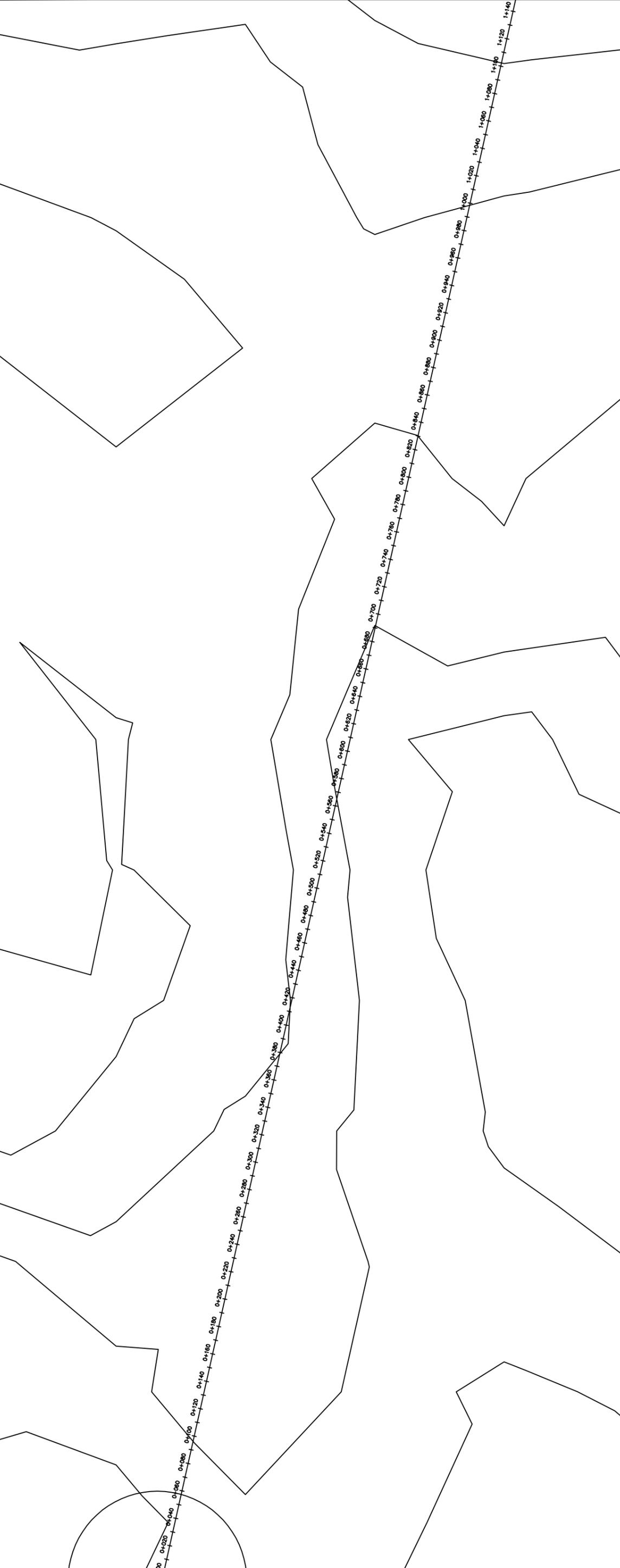
اسم اللوحة:	
رسم و تصميم	مراجعة:
رقم المخطط:	مقياس الرسم:

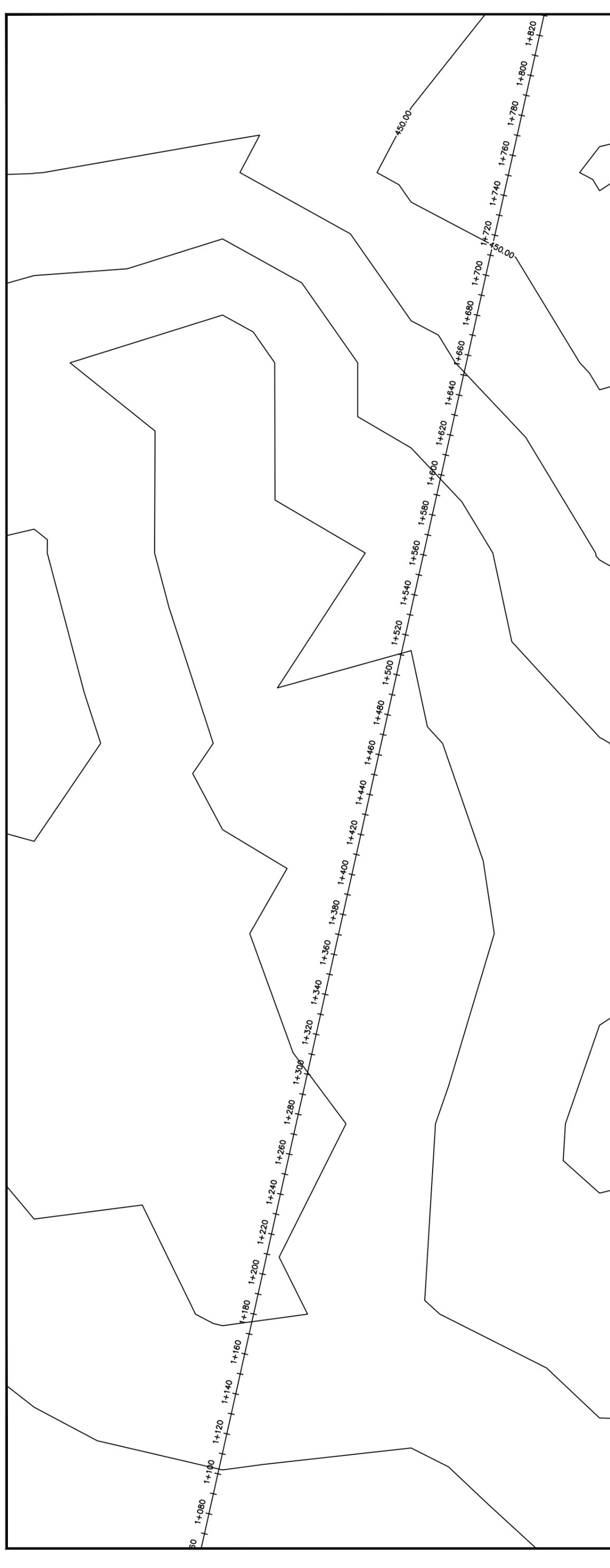




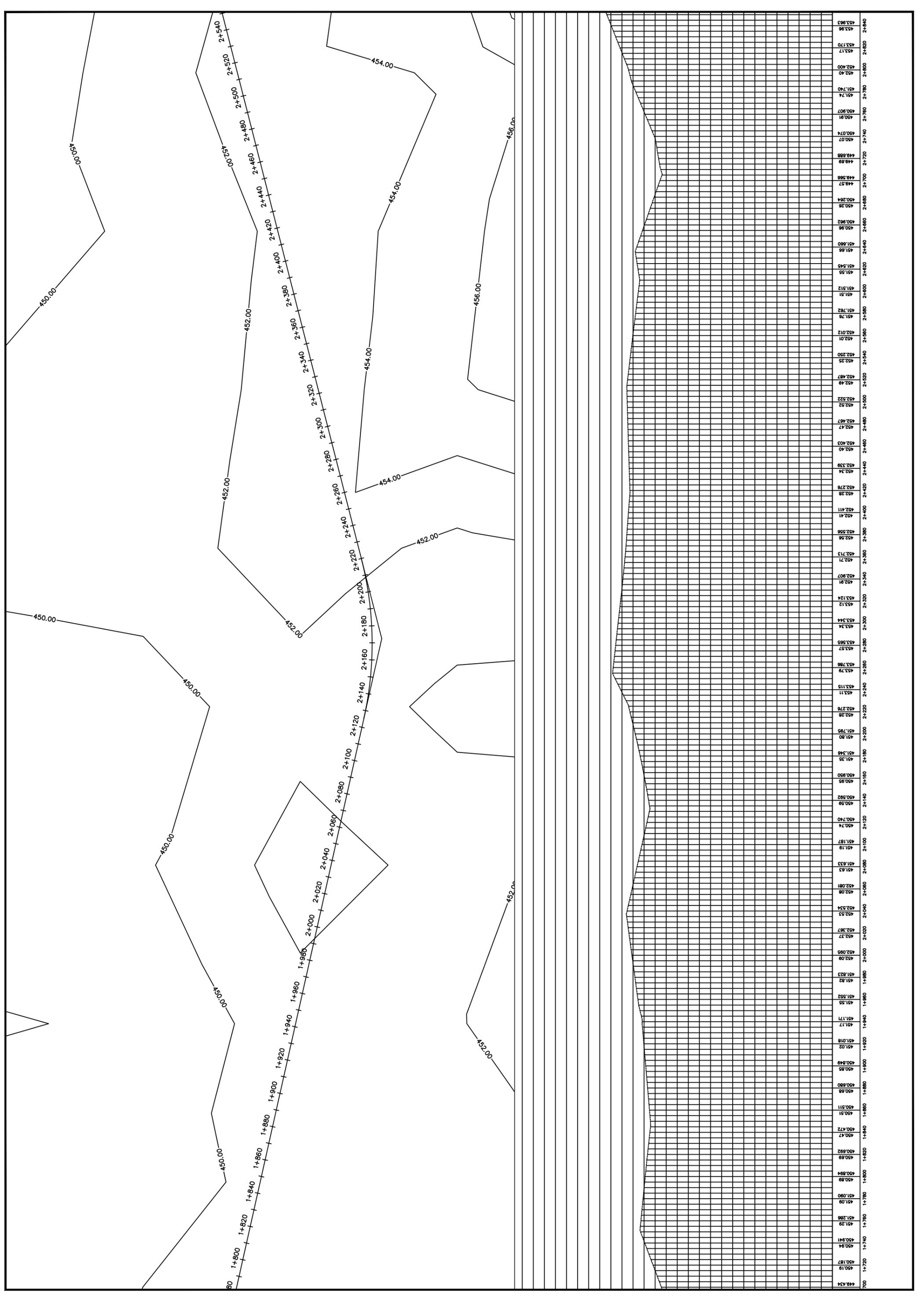
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434.24	0+020
434.223	0+040
434.86	0+060
434.857	0+080
435.49	0+100
436.115	0+120
436.717	0+140
437.10	0+160
437.139	0+180
437.178	0+200
437.22	0+220
437.216	0+240
437.34	0+260
437.338	0+280
437.51	0+300
437.511	0+320
437.52	0+340
437.519	0+360
437.46	0+380
437.457	0+400
437.35	0+420
437.355	0+440
437.253	0+460
437.253	0+480
437.474	0+500
437.75	0+520
437.745	0+540
438.02	0+560
438.017	0+580
438.09	0+600
438.088	0+620
437.94	0+640
437.937	0+660
437.67	0+680
437.668	0+700
437.40	0+720
437.399	0+740
437.25	0+760
437.252	0+780
437.12	0+800
437.117	0+820
436.89	0+840
436.894	0+860
436.50	0+880
436.496	0+900
436.10	0+920
436.099	0+940
435.70	0+960
435.701	0+980
435.312	1+000
435.263	1+020
435.46	1+040
435.460	1+060
435.66	1+080
435.657	1+100
435.85	1+120
435.854	1+140
436.20	1+160
436.202	1+180
436.524	1+200
436.52	1+220
436.82	1+240
436.819	1+260
437.11	1+280
437.114	1+300
437.41	1+320
437.410	1+340
437.70	1+360
437.700	1+380
437.90	1+400
437.900	1+420
438.14	1+440
438.140	1+460
438.43	1+480
438.430	1+500
438.72	1+520
438.720	1+540
438.97	1+560
438.967	1+580
439.11	1+600
439.107	1+620
439.25	1+640
439.246	1+660
439.43	1+680
439.428	1+700
439.71	1+720
439.707	1+740
440.03	1+760
440.028	1+780
440.39	1+800

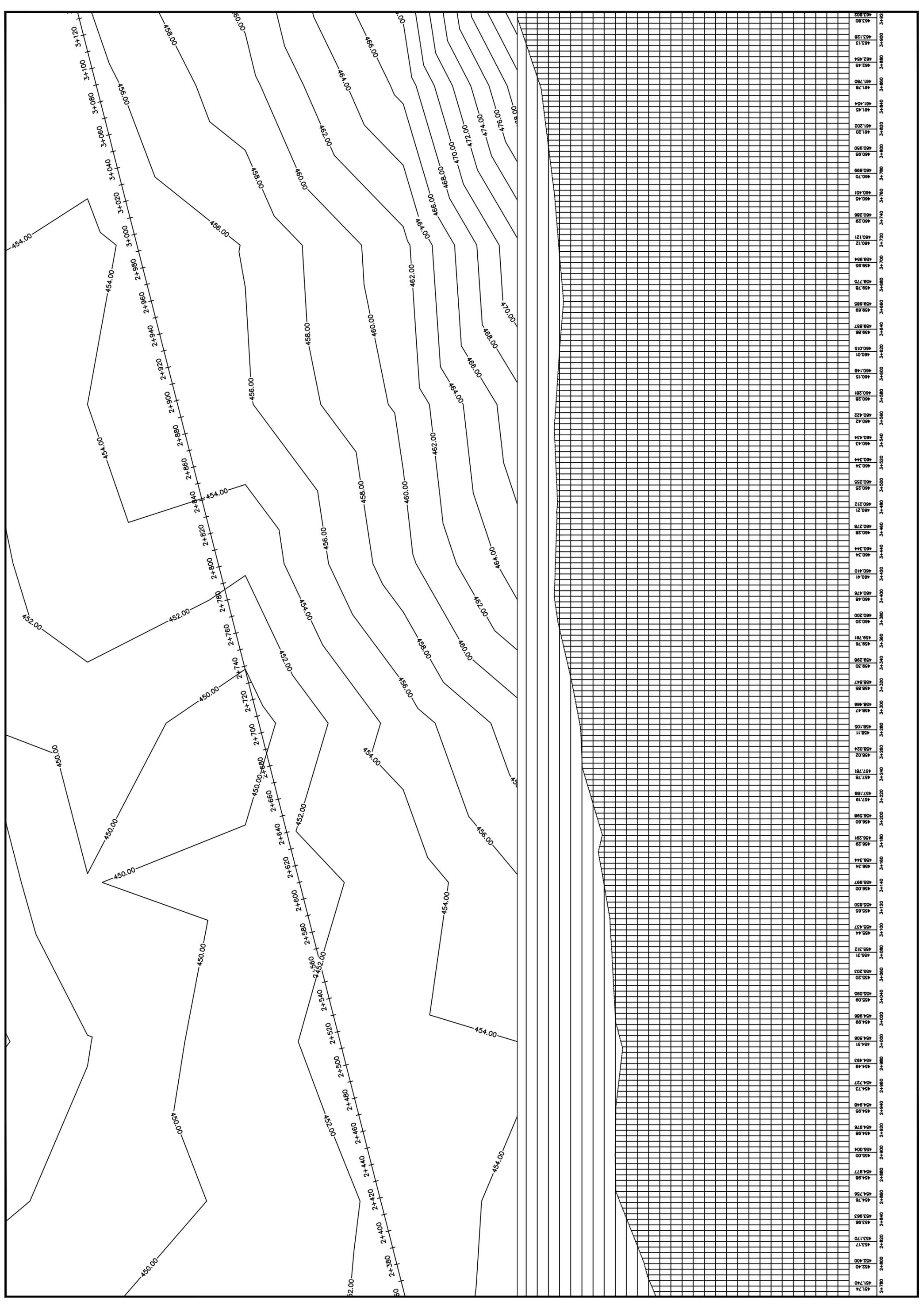
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452	452
450	450
448	448
446	446
444	444
442	442
440	440
438	438
436	436
434	434

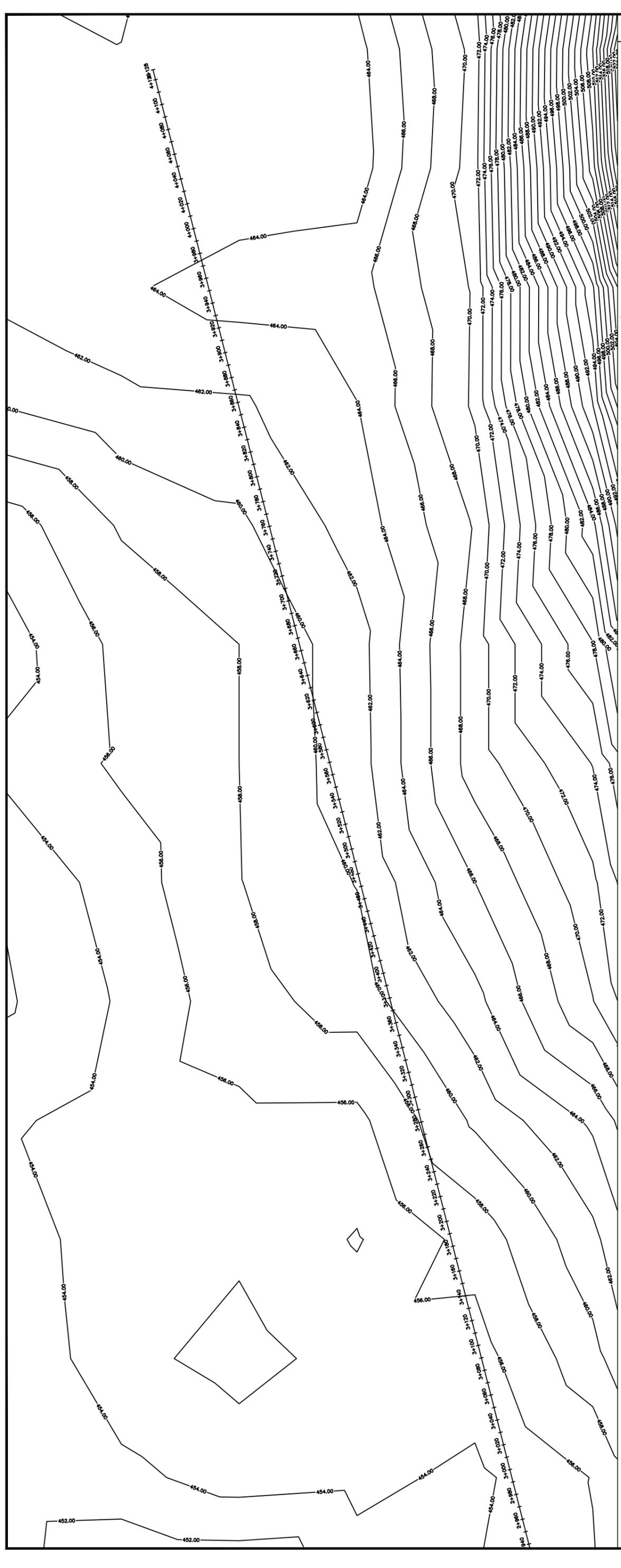




441.932	100
442.493	1+120
443.030	1+140
443.57	1+160
444.10	1+180
444.05	1+200
444.048	1+200
444.11	1+220
444.111	1+220
444.18	1+240
444.176	1+240
444.24	1+260
444.240	1+260
444.235	1+280
444.01	1+300
444.011	1+300
443.79	1+320
443.787	1+320
443.61	1+340
443.605	1+340
443.43	1+360
443.431	1+360
443.39	1+380
443.390	1+380
443.49	1+400
443.494	1+400
443.60	1+420
443.598	1+420
443.70	1+440
443.701	1+440
443.67	1+460
443.673	1+460
443.76	1+480
443.760	1+480
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443.916	1+500
444.07	1+520
444.072	1+520
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444.298	1+540
444.64	1+560
444.639	1+560
445.33	1+580
445.326	1+580
446.07	1+600
446.075	1+600
446.82	1+620
446.824	1+620
447.57	1+640
447.573	1+640
448.28	1+660
448.280	1+660
448.81	1+680
448.814	1+680
449.43	1+700
449.434	1+700
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450.187	1+720
450.94	1+740
450.941	1+740
451.29	1+760
451.286	1+760
451.09	1+780
451.090	1+780







455.09	3+000
455.20	3+080
455.203	3+080
455.312	3+080
455.31	3+080
455.44	3+100
455.57	3+100
455.65	3+120
455.80	3+120
455.850	3+120
455.97	3+140
456.344	3+160
456.29	3+160
456.291	3+160
456.00	3+200
456.898	3+200
457.189	3+220
457.19	3+220
457.78	3+240
457.781	3+240
458.024	3+260
458.024	3+260
458.11	3+280
458.105	3+280
458.47	3+300
458.67	3+320
458.671	3+320
459.30	3+340
459.298	3+340
459.78	3+360
459.781	3+360
460.20	3+380
460.200	3+380
460.48	3+400
460.478	3+400
460.410	3+420
460.34	3+440
460.28	3+460
460.278	3+460
460.21	3+480
460.212	3+480
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460.34	3+520
460.344	3+520
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460.148	3+600
460.015	3+620
459.86	3+640
459.857	3+640
459.69	3+660
459.58	3+680
459.578	3+680
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459.954	3+700
460.12	3+720
460.121	3+720
460.28	3+740
460.286	3+740
460.45	3+760
460.451	3+760
460.69	3+780
460.698	3+780
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460.950	3+800
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461.202	3+820
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461.780	3+860
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462.45	3+880
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464.434	3+960
463.26	3+980
463.256	3+980
462.83	4+000
462.828	4+000
462.53	4+020
462.528	4+020
462.430	4+040
462.424	4+040
462.49	4+060
462.488	4+060
462.43	4+080
462.432	4+080
462.332	4+100
462.33	4+120
462.332	4+120
462.33	4+140
462.332	4+140
462.33	4+160
462.332	4+160
462.33	4+180
462.332	4+180
462.33	4+200
462.332	4+200
462.33	4+220
462.332	4+220
462.33	4+240
462.332	4+240
462.33	4+260
462.332	4+260
462.33	4+280
462.332	4+280
462.33	4+300
462.332	4+300
462.33	4+320
462.332	4+320
462.33	4+340
462.332	4+340
462.33	4+360
462.332	4+360
462.33	4+380
462.332	4+380
462.33	4+400
462.332	4+400
462.33	4+420
462.332	4+420
462.33	4+440
462.332	4+440
462.33	4+460
462.332	4+460
462.33	4+480
462.332	4+480
462.33	4+500
462.332	4+500
462.33	4+520
462.332	4+520
462.33	4+540
462.332	4+540
462.33	4+560
462.332	4+560
462.33	4+580
462.332	4+580
462.33	4+600
462.332	4+600
462.33	4+620
462.332	4+620
462.33	4+640
462.332	4+640
462.33	4+660
462.332	4+660
462.33	4+680
462.332	4+680
462.33	4+700
462.332	4+700
462.33	4+720
462.332	4+720
462.33	4+740
462.332	4+740
462.33	4+760
462.332	4+760
462.33	4+780
462.332	4+780
462.33	4+800
462.332	4+800
462.33	4+820
462.332	4+820
462.33	4+840
462.332	4+840
462.33	4+860
462.332	4+860
462.33	4+880
462.332	4+880
462.33	4+900
462.332	4+900
462.33	4+920
462.332	4+920
462.33	4+940
462.332	4+940
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462.332	4+960
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462.332	4+980
462.33	5+000
462.332	5+000

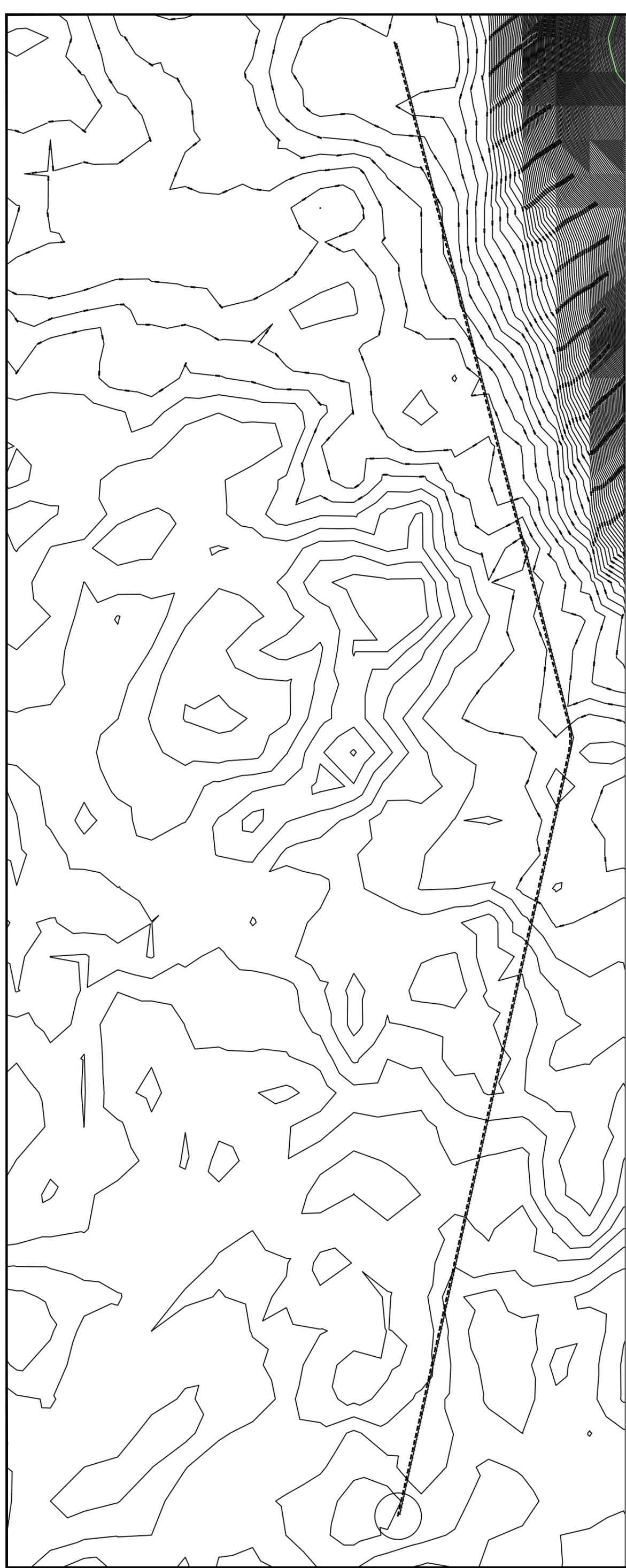
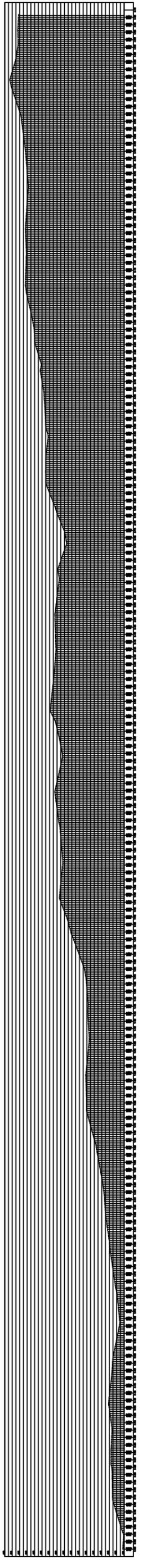
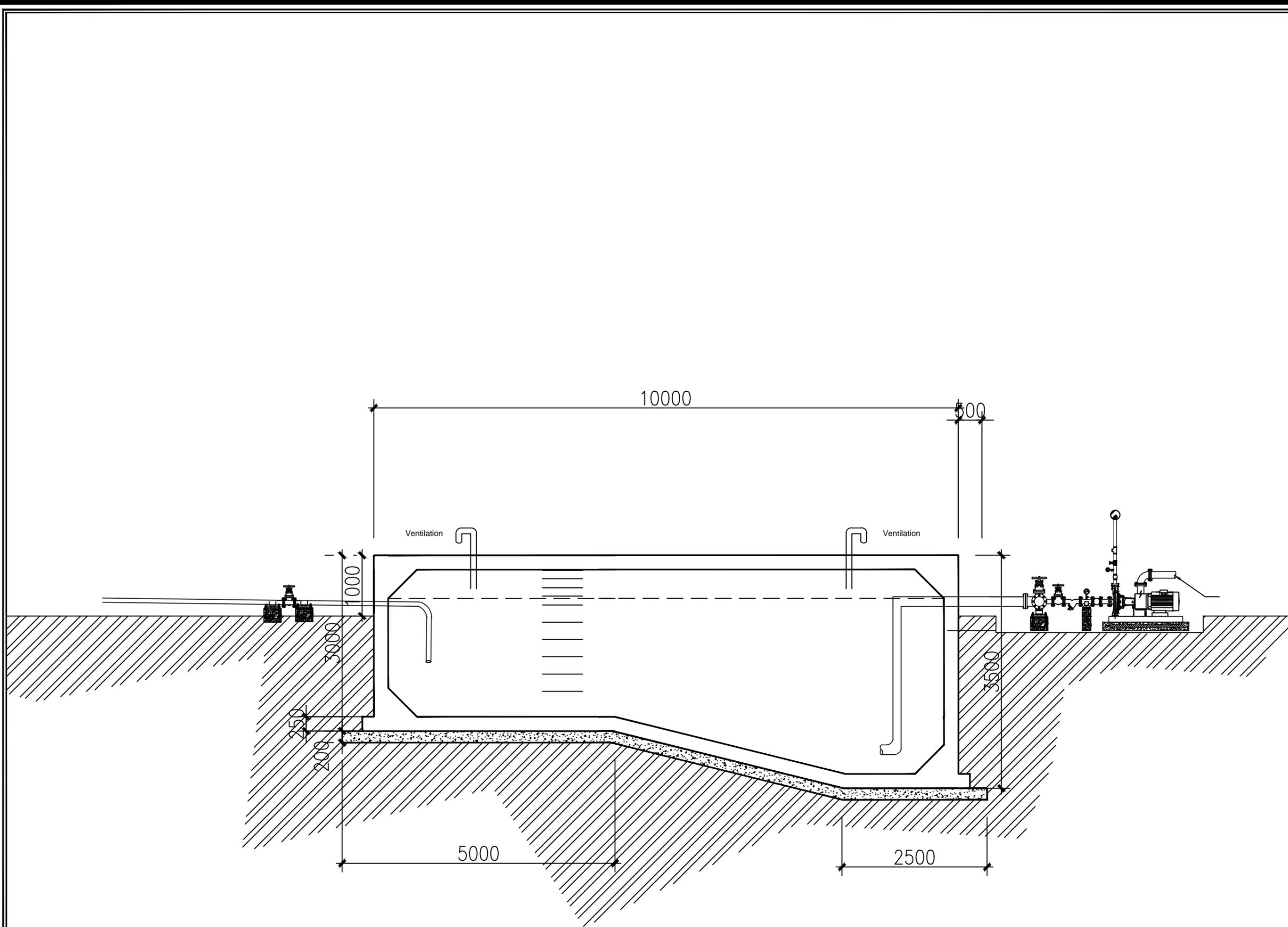


Figure 1 - 10 meters



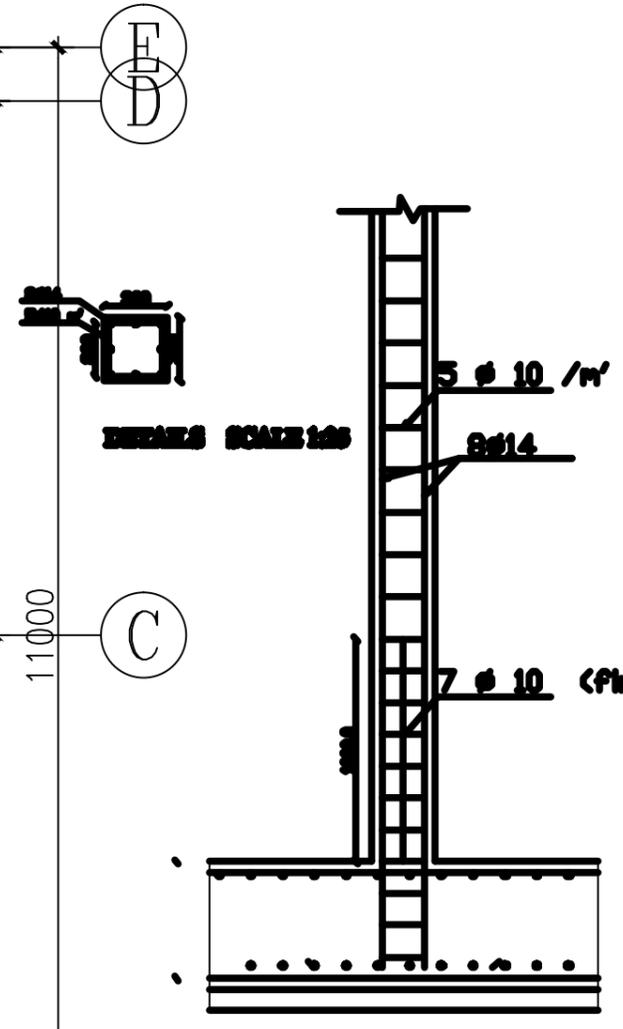
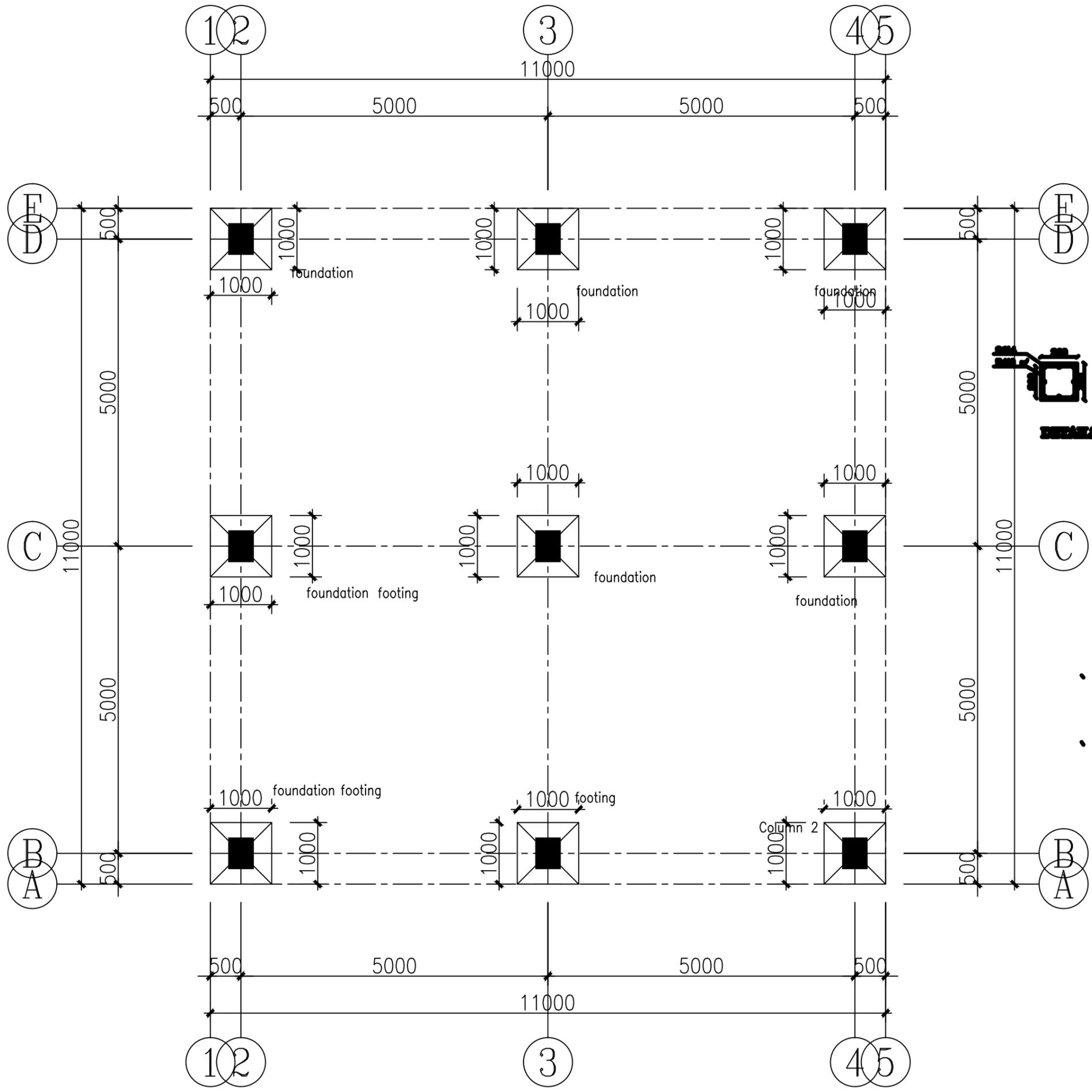


Rev. no.	Date	Description	Drw.	Checked



مشروع
انشاء خزان
PIPE LINE PROJECT

اسم اللوحة:	
رسم و تصميم ي.م.	مراجعة:
رقم المخطط:	مقياس الرسم:



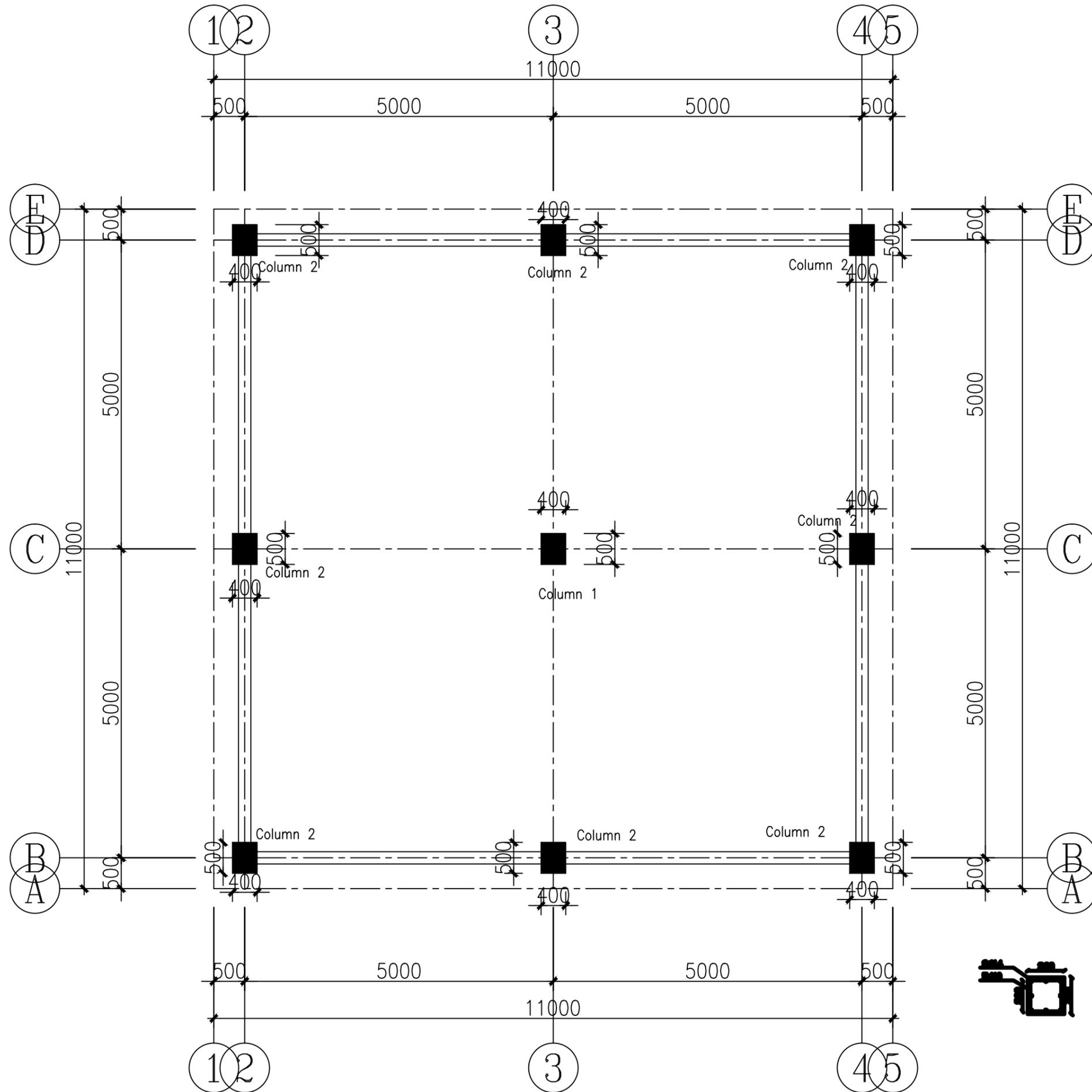
**(TYP) DETAIL FOR
COLUMN AND RAFT CONNECTION**

Rev. no.	Date	Description	Drw.	Checked



PIPE LINE PROJECT

اسم اللوحة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقاييس رسم:

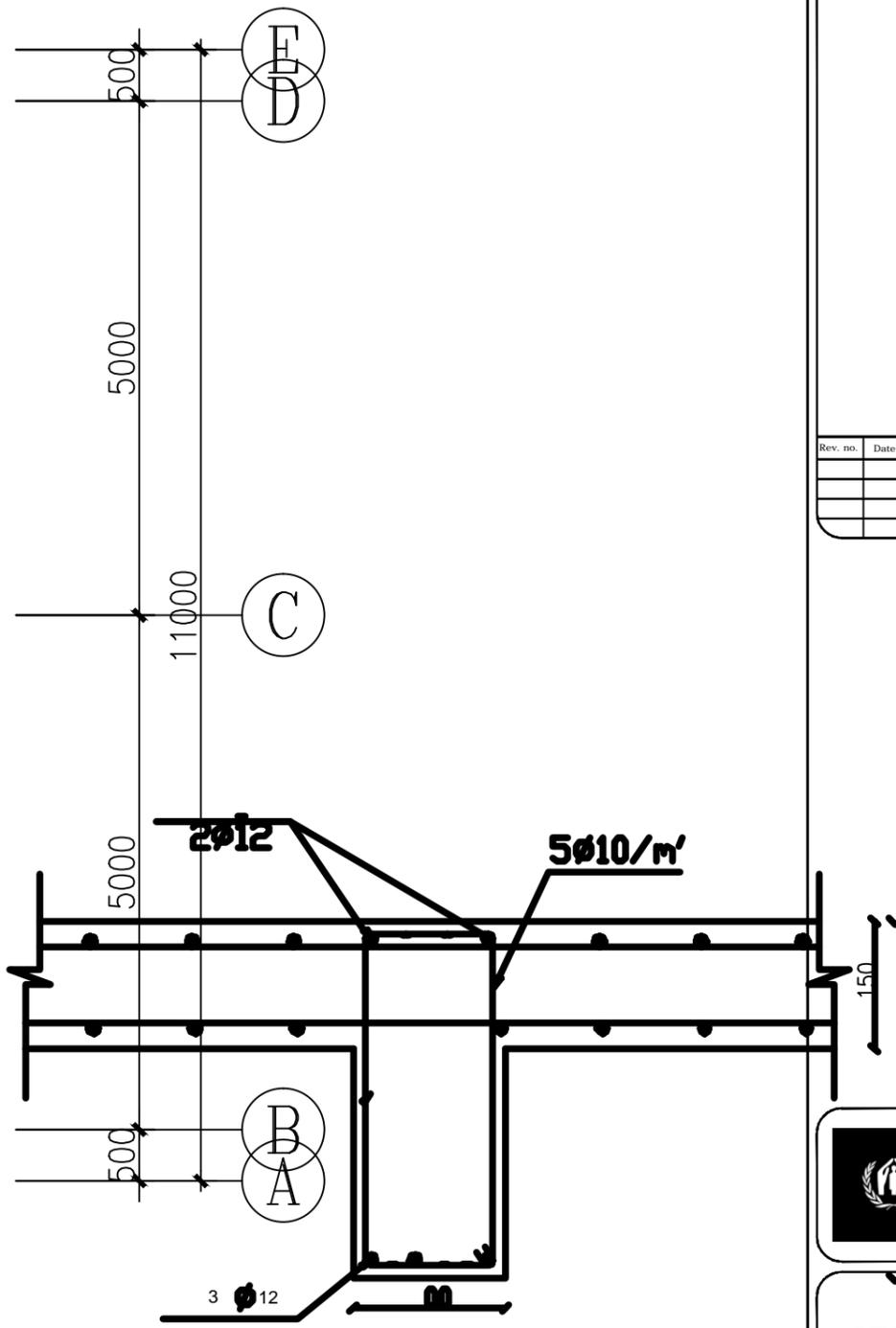
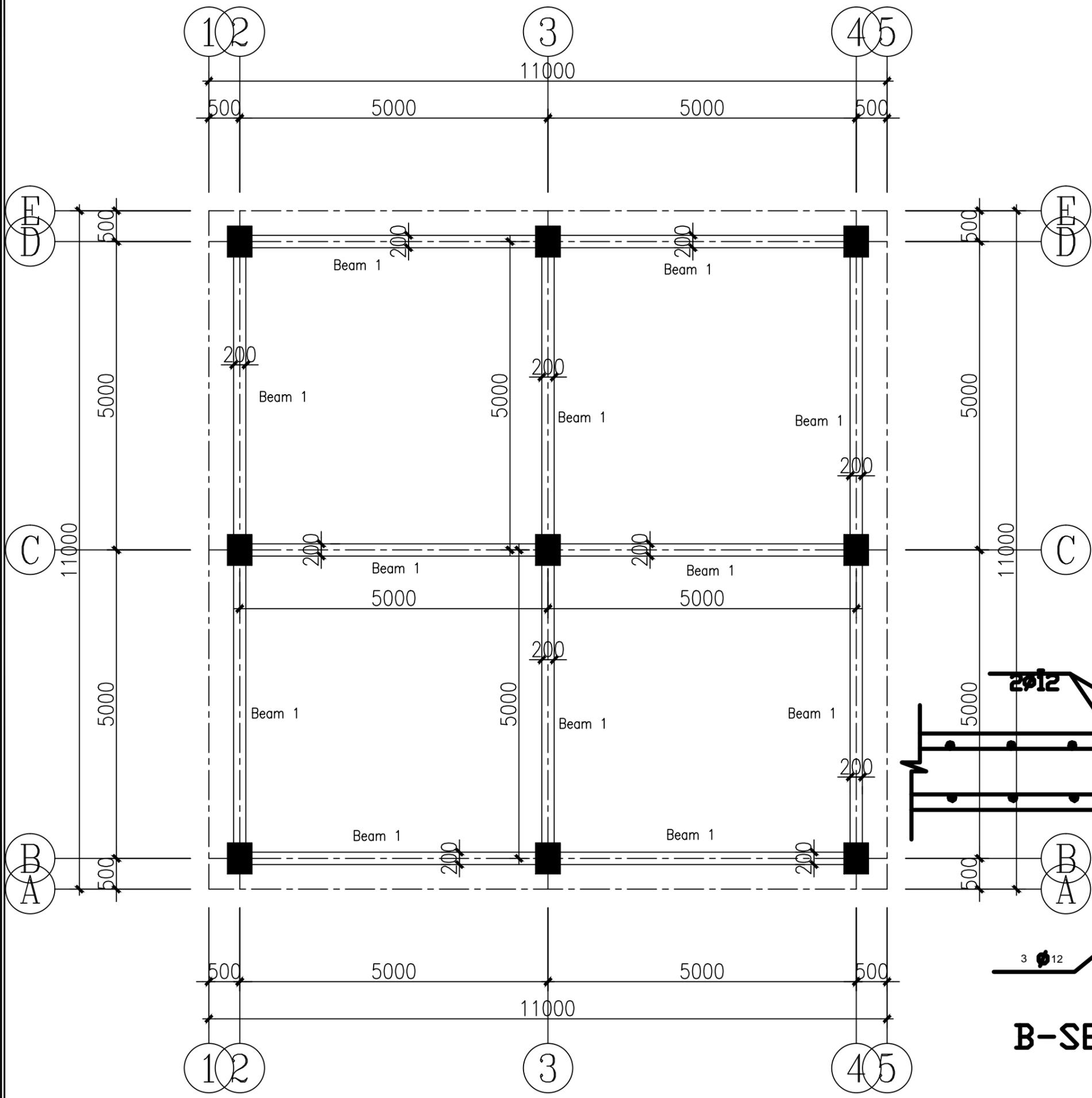


Rev. no.	Date	Description	Drw.	Checked



PIPE LINE PROJECT

اسم اللوحة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقياس الرسم:



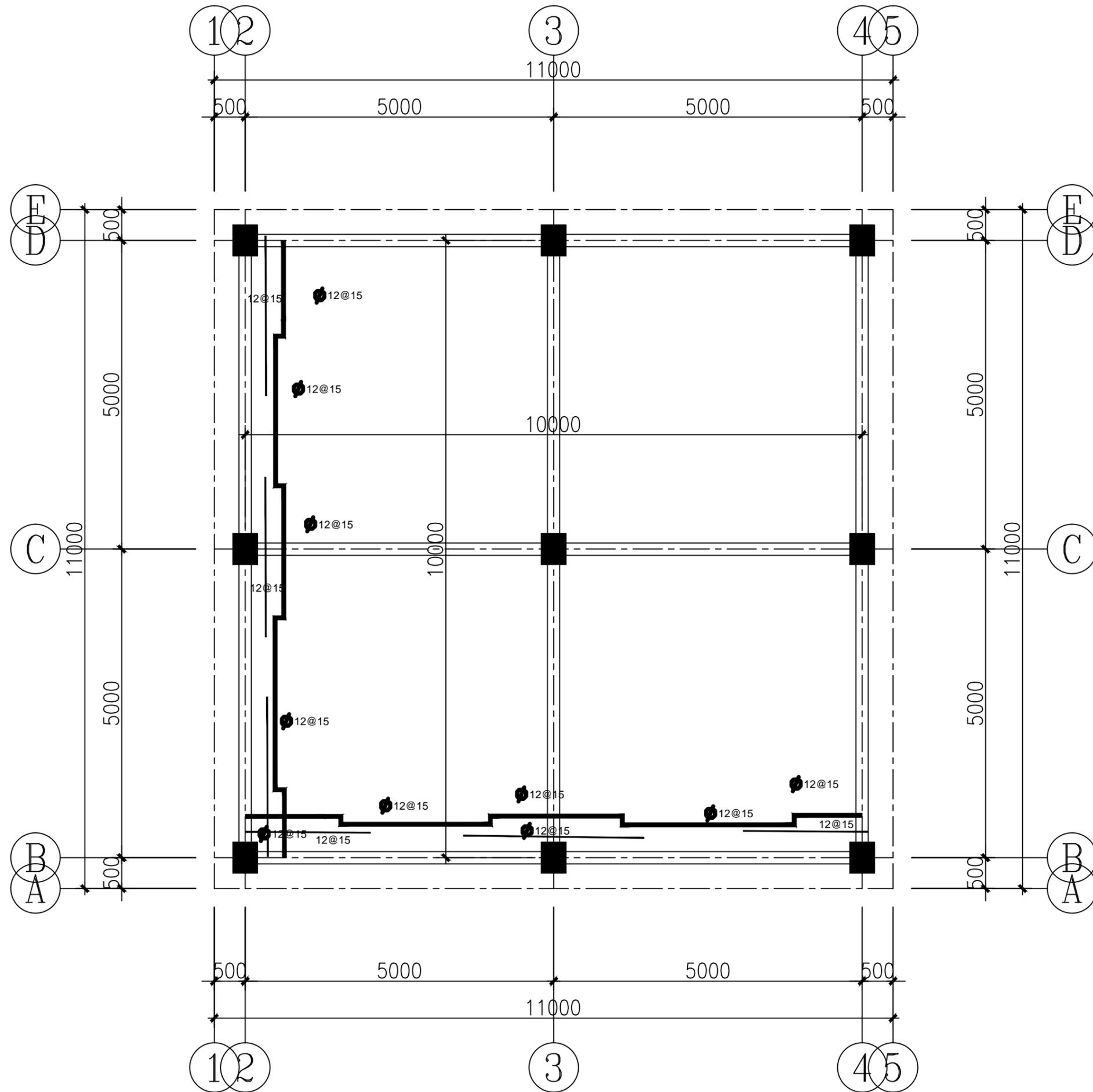
B-SECTION (TYP)

Rev. no.	Date	Description	Drw.	Checked



PIPE LINE PROJECT

اسم اللوحة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقياس الرسم:

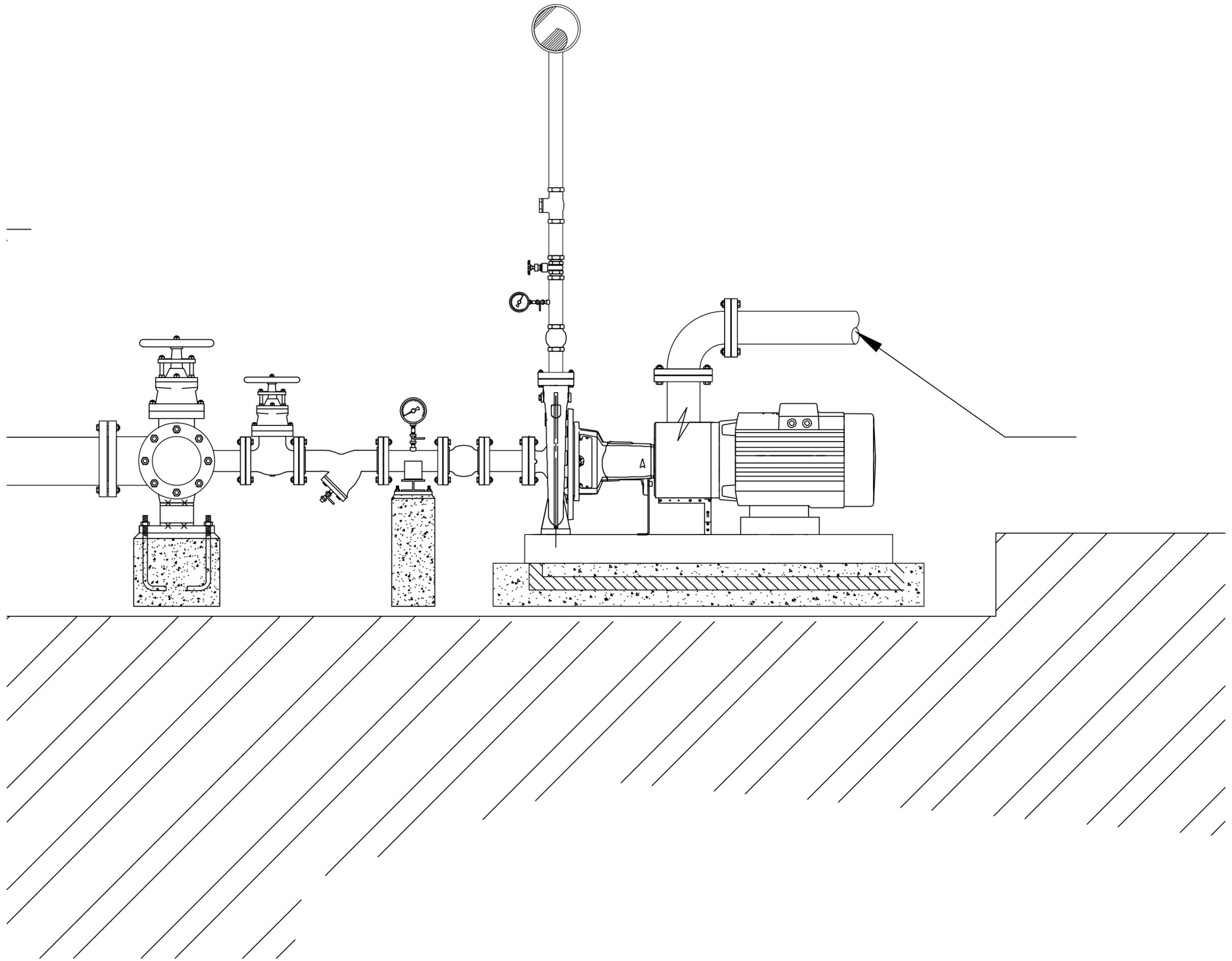


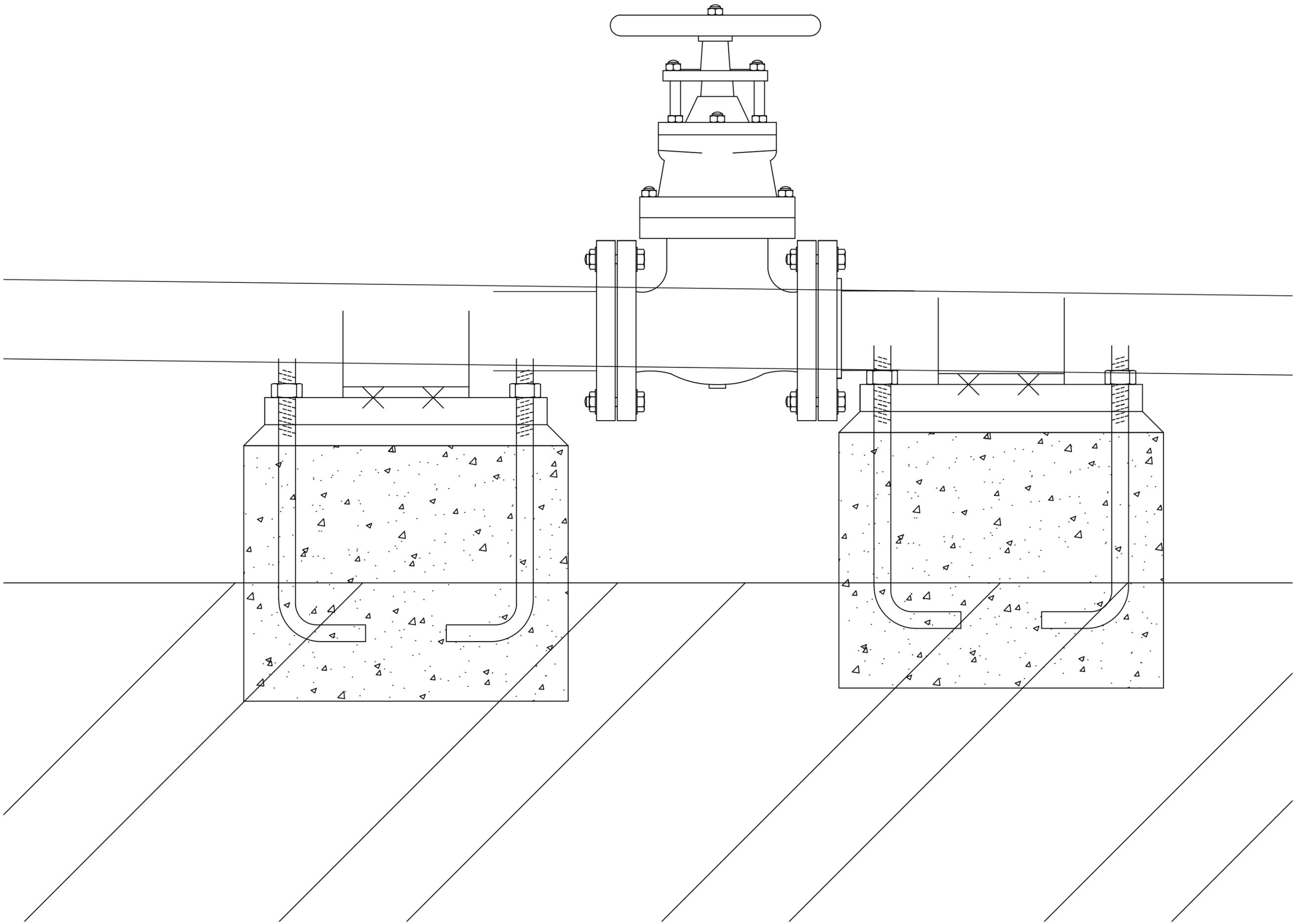
Rev. no.	Date	Description	Drw.	Checked

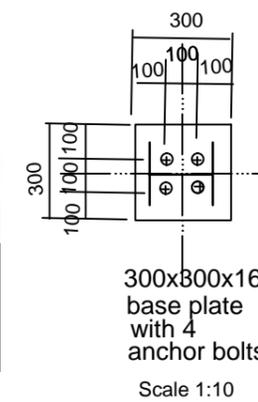
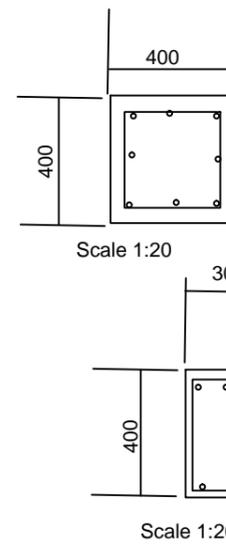
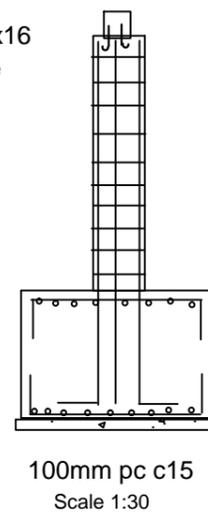
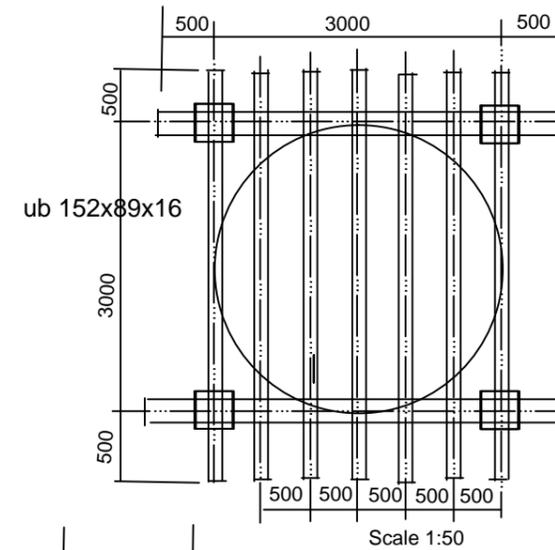
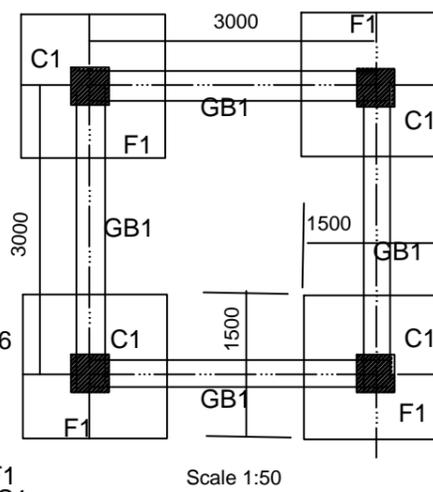
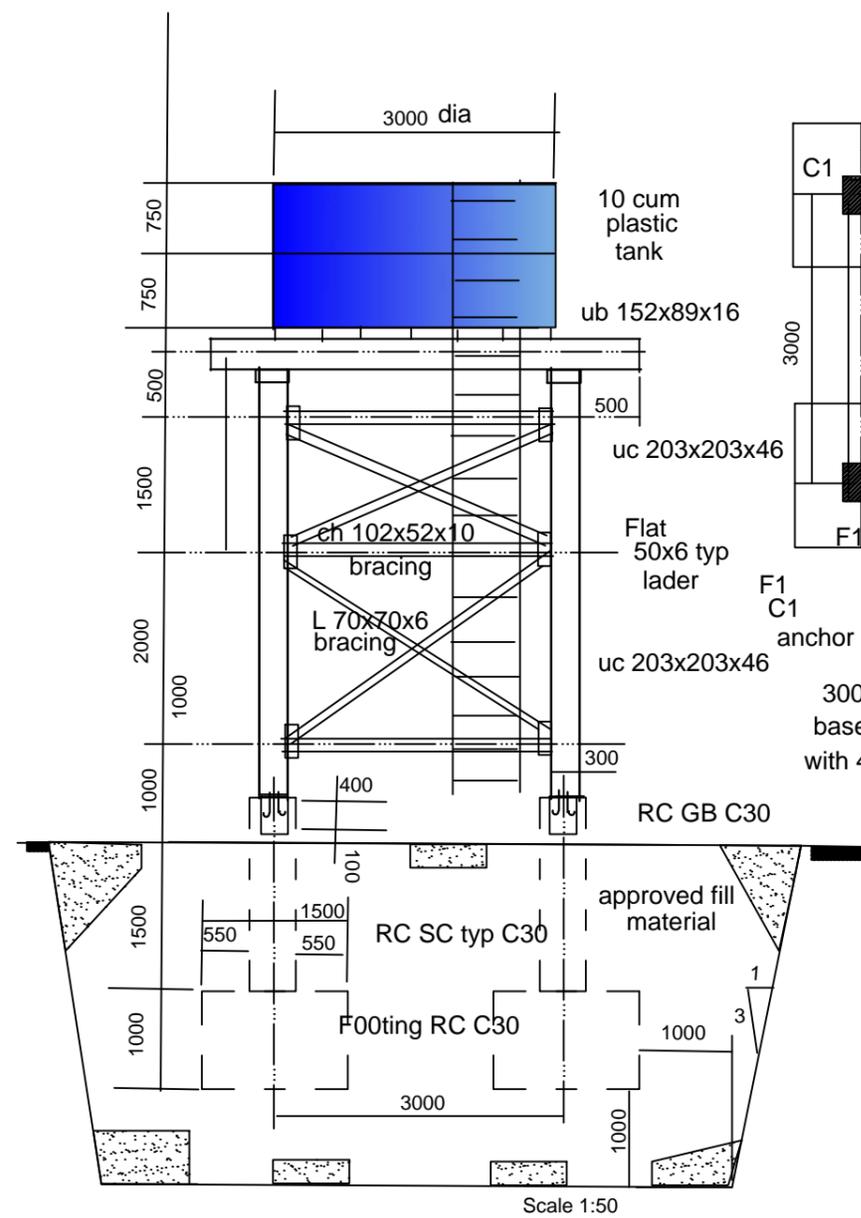


PIPE LINE PROJECT ١

اسم الذوخة:	
رسم و تصميم:	مراجعة:
رقم المخطط:	مقياس الرسم:





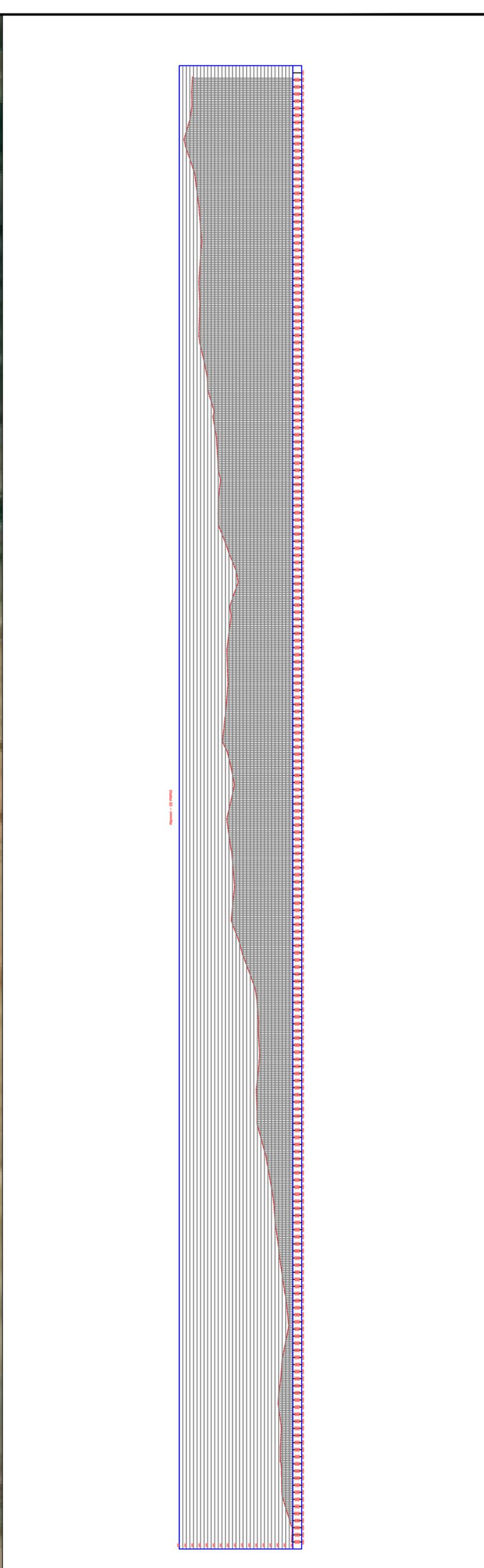


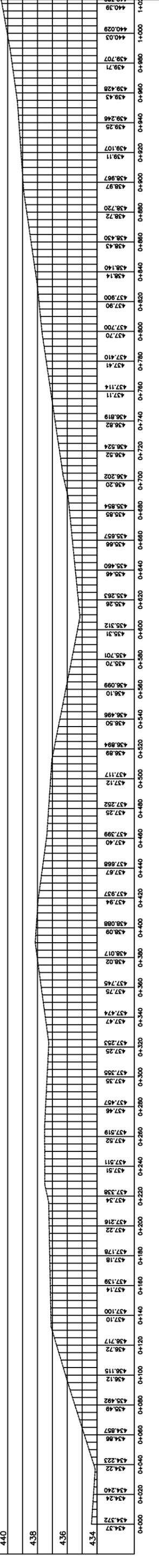
Rev. no.	Date	Description	Drw.	Checked



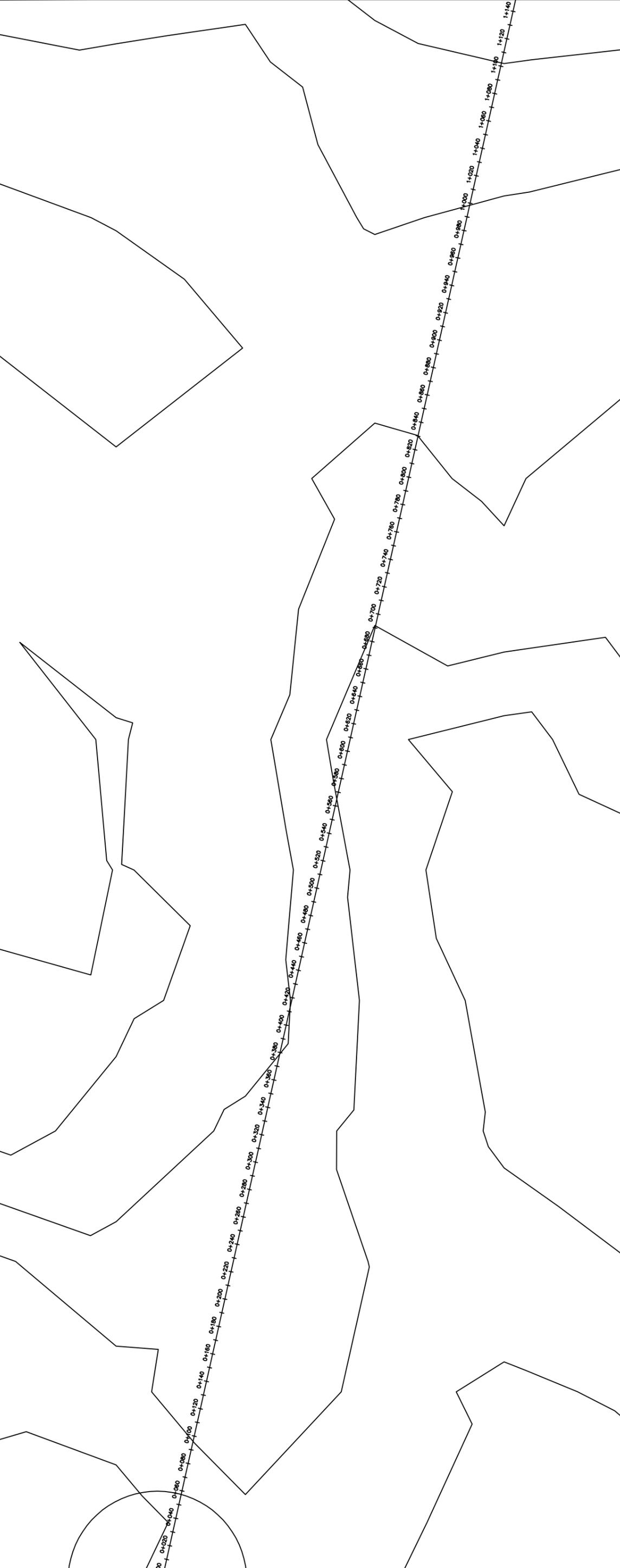
PIPE LINE PROJECT

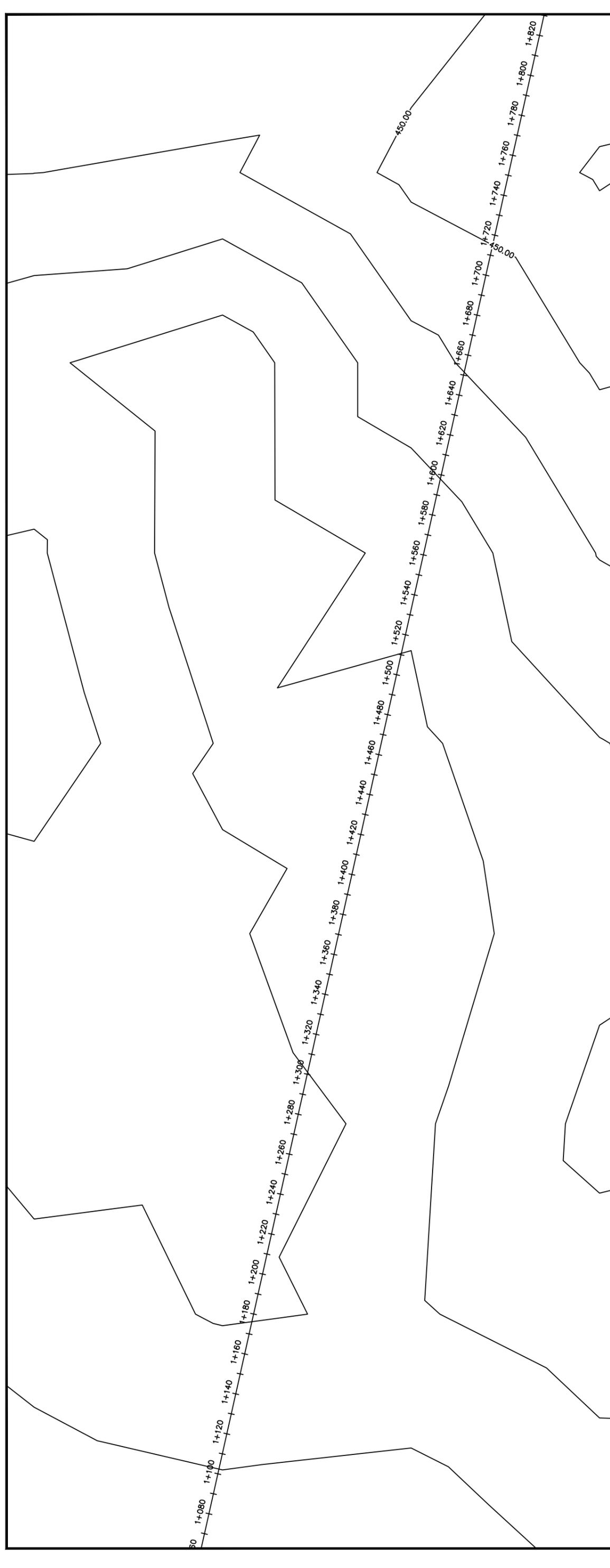
اسم اللوحة:	
رسم و تصميم	مراجعة:
رقم المخطط:	مقياس الرسم:



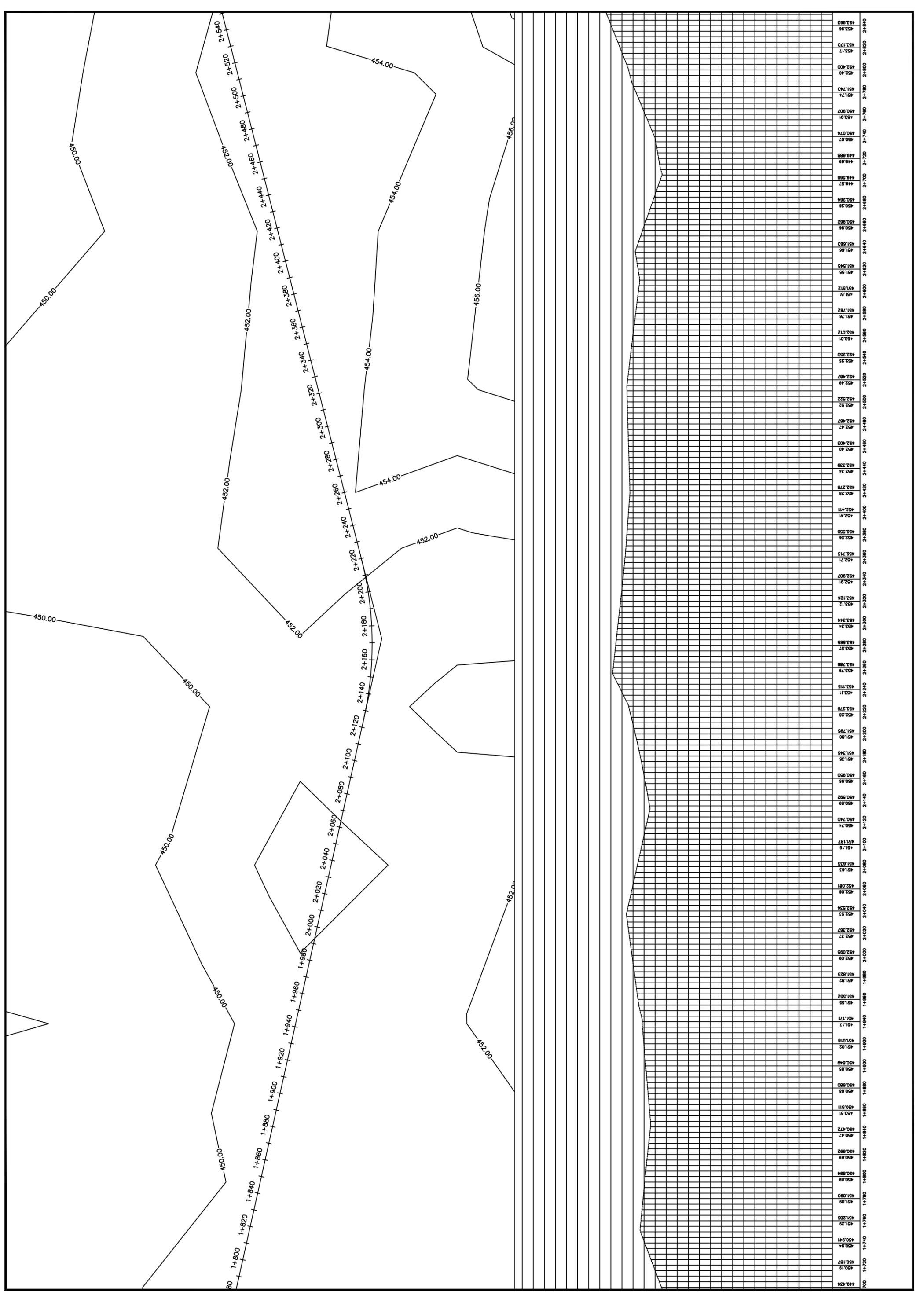


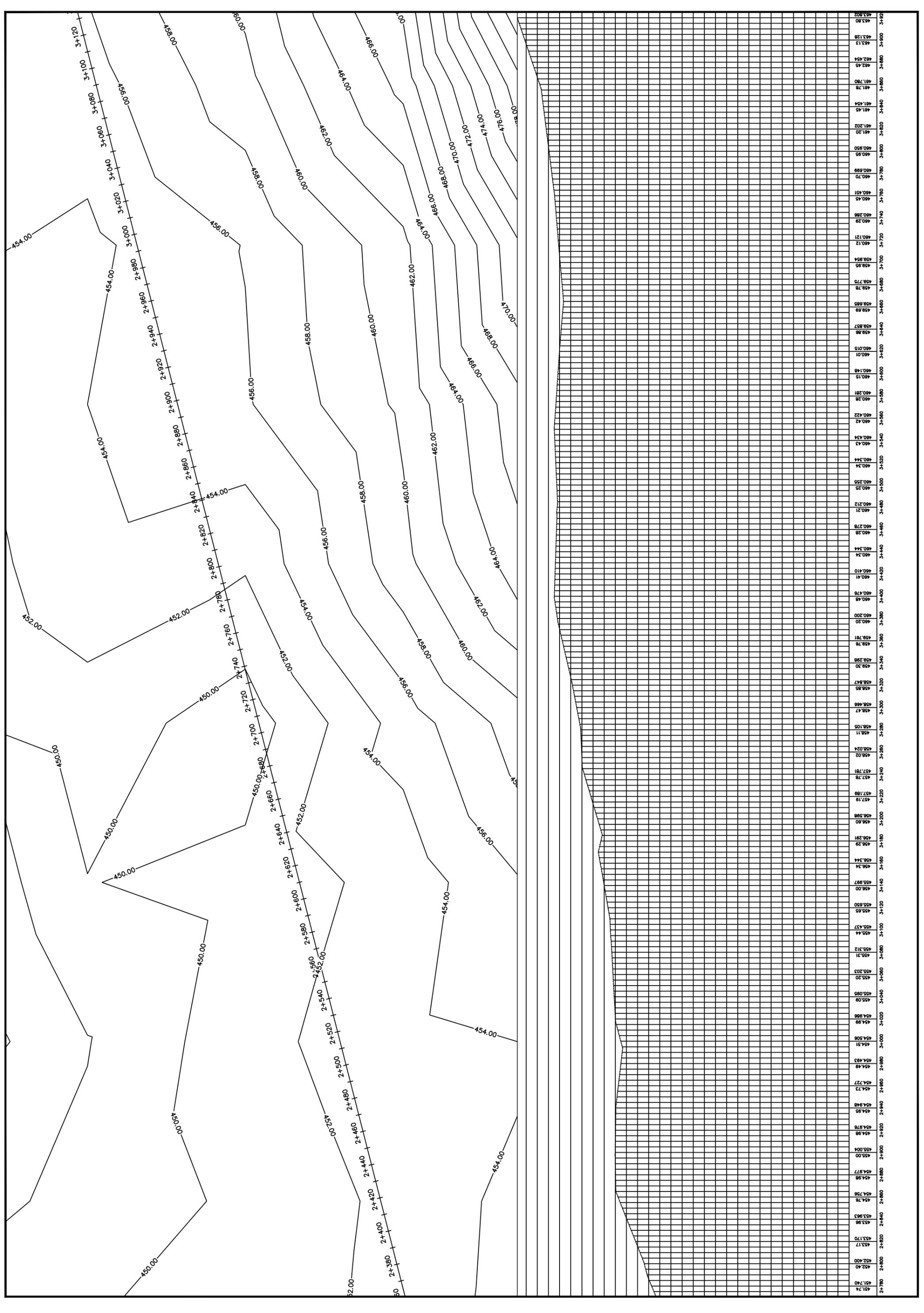
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434.223	0+040
434.86	0+060
434.857	0+080
435.49	0+100
436.115	0+120
436.717	0+140
437.10	0+160
437.139	0+180
437.178	0+200
437.22	0+220
437.216	0+240
437.34	0+260
437.338	0+280
437.51	0+300
437.511	0+320
437.519	0+340
437.52	0+360
437.457	0+380
437.35	0+400
437.355	0+420
437.253	0+440
437.253	0+460
437.474	0+480
437.75	0+500
437.745	0+520
438.02	0+540
438.017	0+560
438.08	0+580
438.088	0+600
437.94	0+620
437.937	0+640
437.67	0+660
437.668	0+680
437.40	0+700
437.399	0+720
437.25	0+740
437.252	0+760
437.12	0+780
437.117	0+800
438.89	0+820
438.894	0+840
438.50	0+860
438.496	0+880
438.10	0+900
438.099	0+920
438.70	0+940
438.701	0+960
438.31	0+980
438.312	1+000
438.26	1+020
438.263	1+040
438.46	1+060
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438.66	1+100
438.657	1+120
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438.202	1+200
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438.524	1+240
438.82	1+260
438.819	1+280
437.11	1+300
437.114	1+320
437.41	1+340
437.410	1+360
437.70	1+380
437.700	1+400
437.90	1+420
437.900	1+440
438.14	1+460
438.140	1+480
438.43	1+500
438.430	1+520
438.72	1+540
438.720	1+560
438.97	1+580
438.967	1+600
439.11	1+620
439.107	1+640
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439.43	1+700
439.428	1+720
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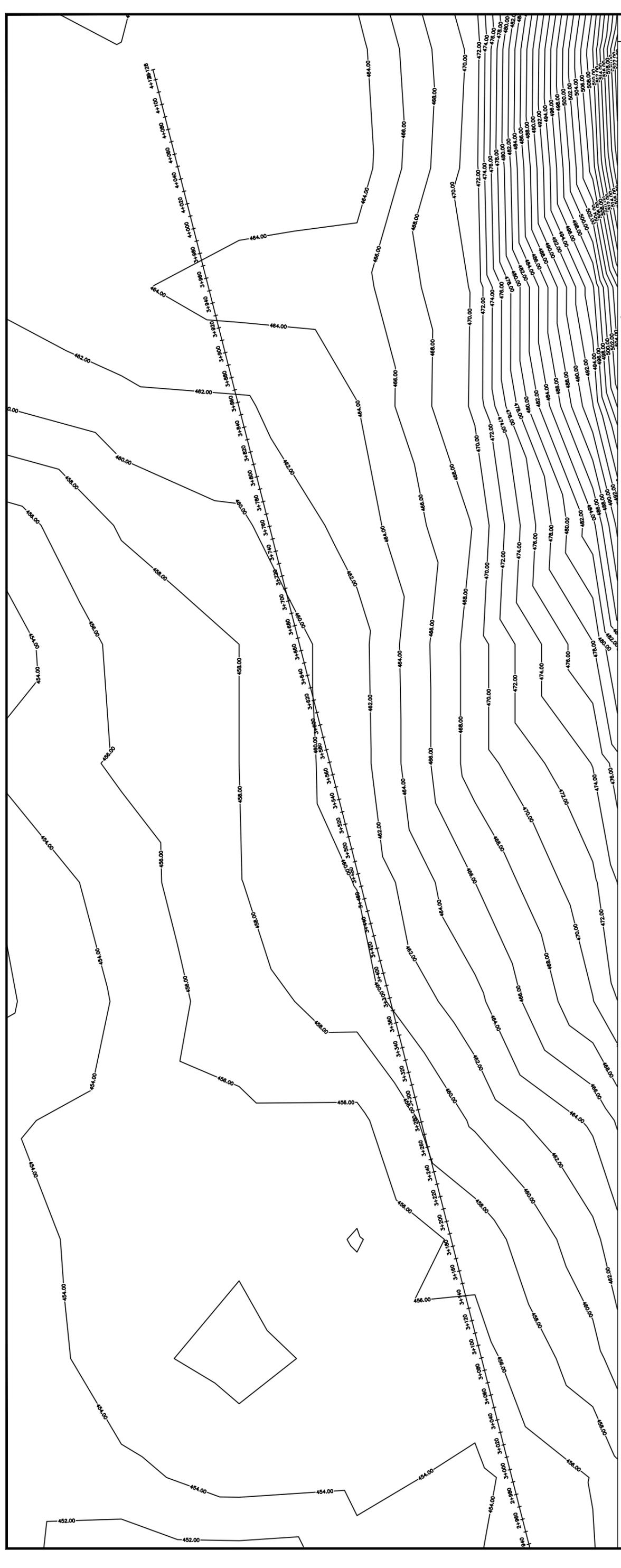




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443.567	1+180
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444.18	1+260
444.24	1+280
444.235	1+300
444.01	1+320
443.79	1+340
443.787	1+360
443.61	1+380
443.605	1+400
443.43	1+420
443.431	1+440
443.39	1+460
443.390	1+480
443.494	1+500
443.598	1+520
443.70	1+540
443.701	1+560
443.67	1+580
443.673	1+600
443.76	1+620
443.760	1+640
443.92	1+660
443.916	1+680
444.07	1+700
444.072	1+720
444.30	1+740
444.298	1+760
444.64	1+780
444.639	1+800
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446.075	
446.82	
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451.090	







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455.203	3+080
455.312	3+080
455.31	3+080
455.44	3+100
455.37	3+100
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455.650	3+120
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455.97	3+140
455.344	3+160
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456.291	3+160
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456.98	3+200
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457.781	3+240
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459.298	3+340
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459.781	3+360
460.20	3+380
460.200	3+380
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460.476	3+400
460.410	3+420
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460.28	3+460
460.278	3+460
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460.212	3+480
460.250	3+500
460.34	3+520
460.344	3+520
460.434	3+540
460.43	3+540
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460.148	3+600
460.015	3+620
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459.857	3+640
459.69	3+660
459.58	3+680
459.775	3+680
459.95	3+700
459.954	3+700
460.12	3+720
460.121	3+720
460.28	3+740
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460.45	3+760
460.451	3+760
460.69	3+780
460.699	3+780
460.95	3+800
460.950	3+800
461.20	3+820
461.202	3+820
461.454	3+840
461.45	3+840
461.78	3+860
461.780	3+860
462.454	3+880
462.45	3+880
463.12	3+900
463.128	3+900
463.802	3+920
463.80	3+920
464.38	3+940
464.379	3+940
464.43	3+960
464.434	3+960
463.84	3+980
463.26	4+000
463.256	4+000
462.83	4+020
462.828	4+020
462.55	4+040
462.528	4+040
462.430	4+060
462.49	4+080
462.43	4+100
462.332	4+120

