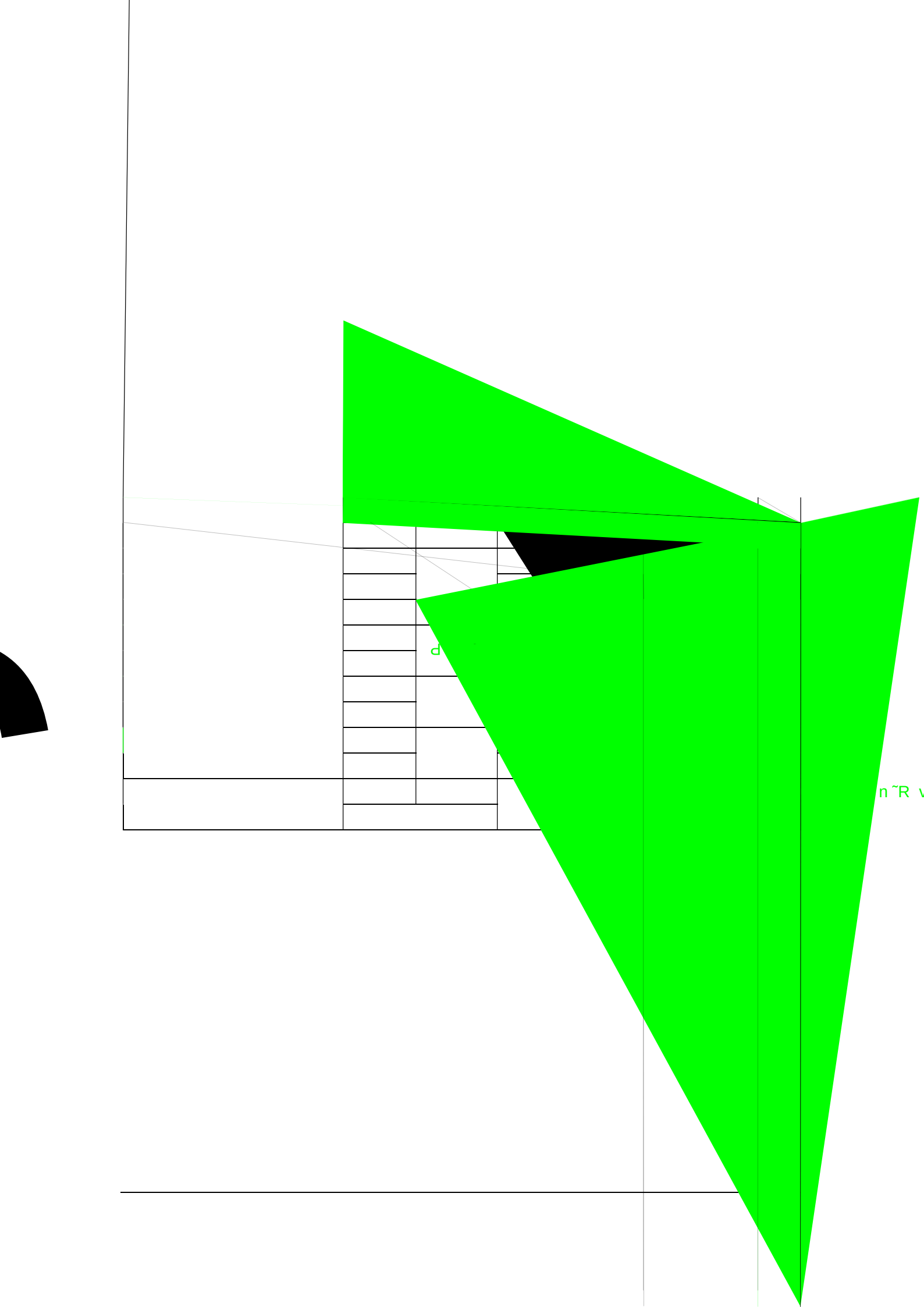
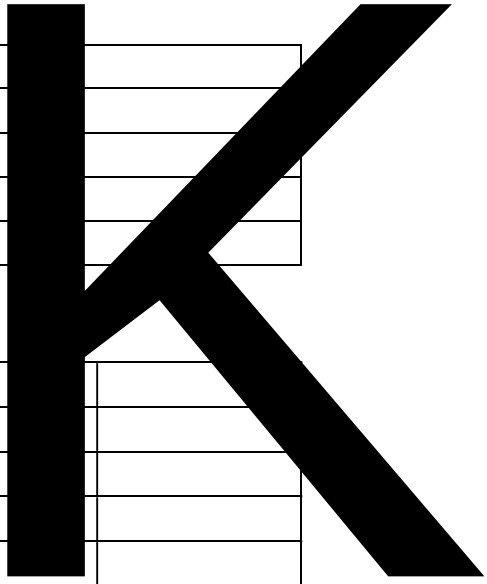
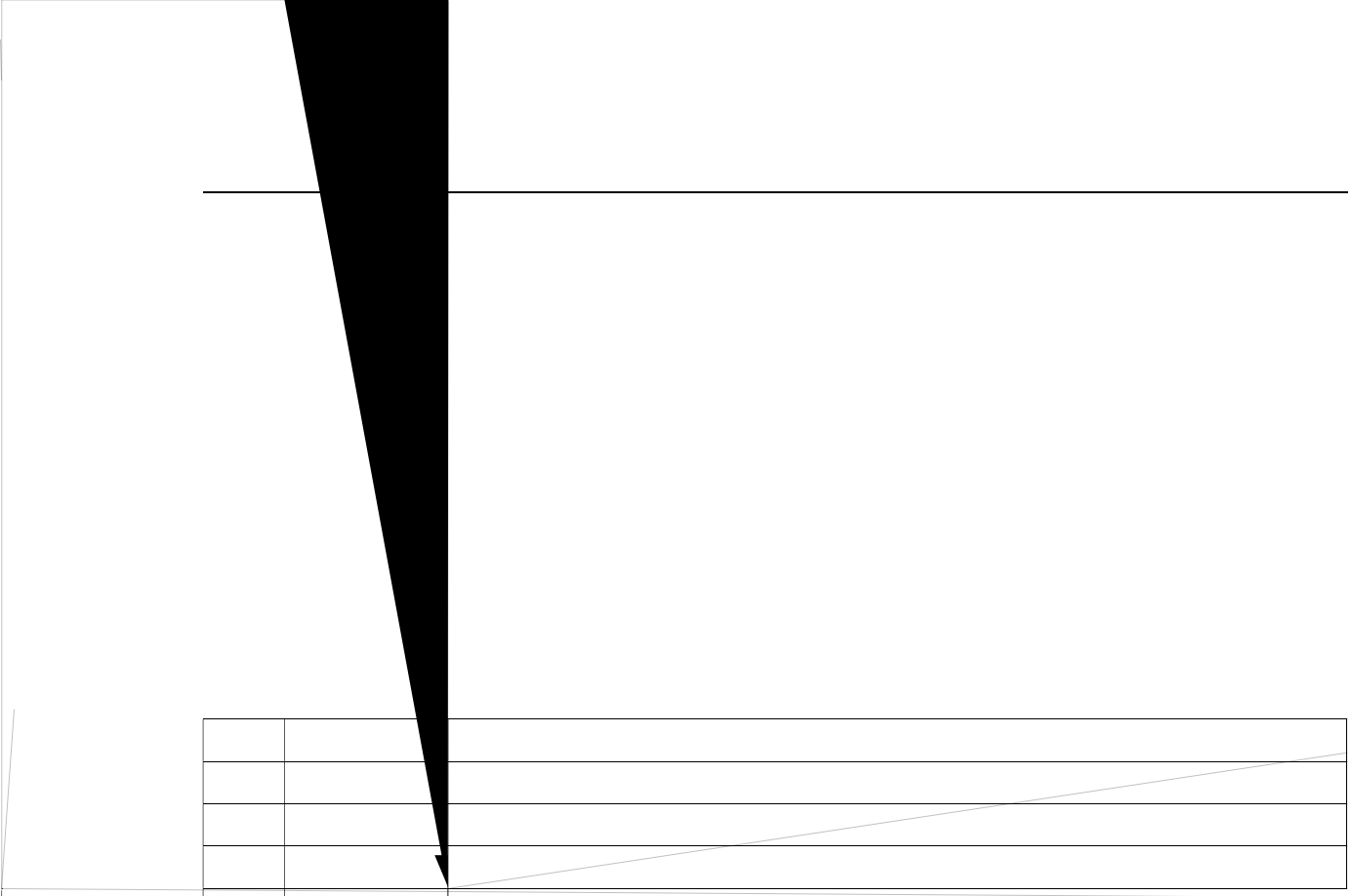
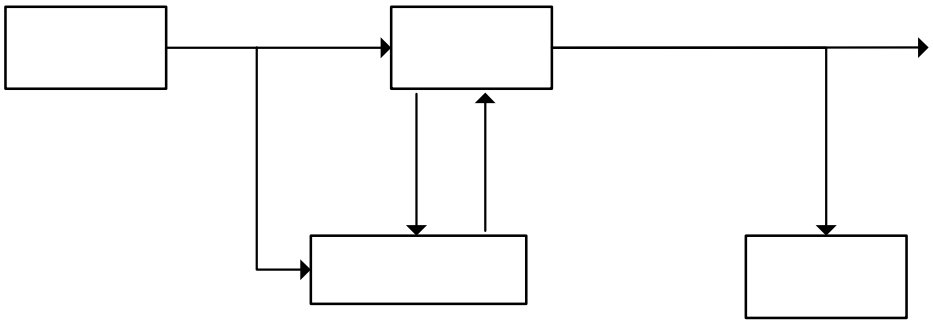
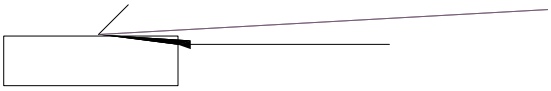
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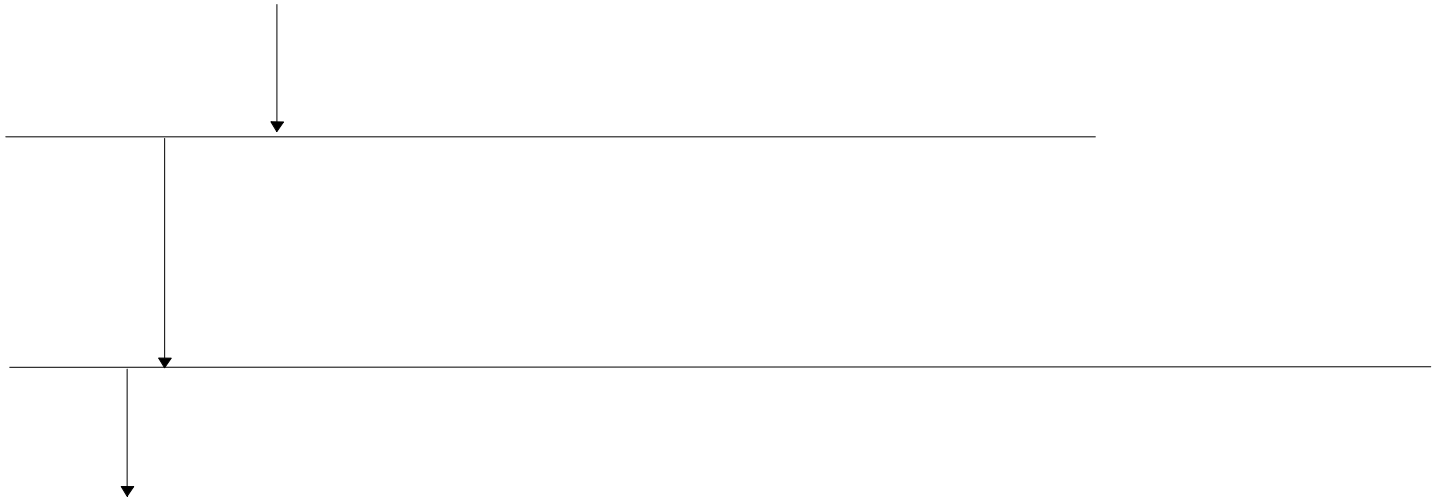


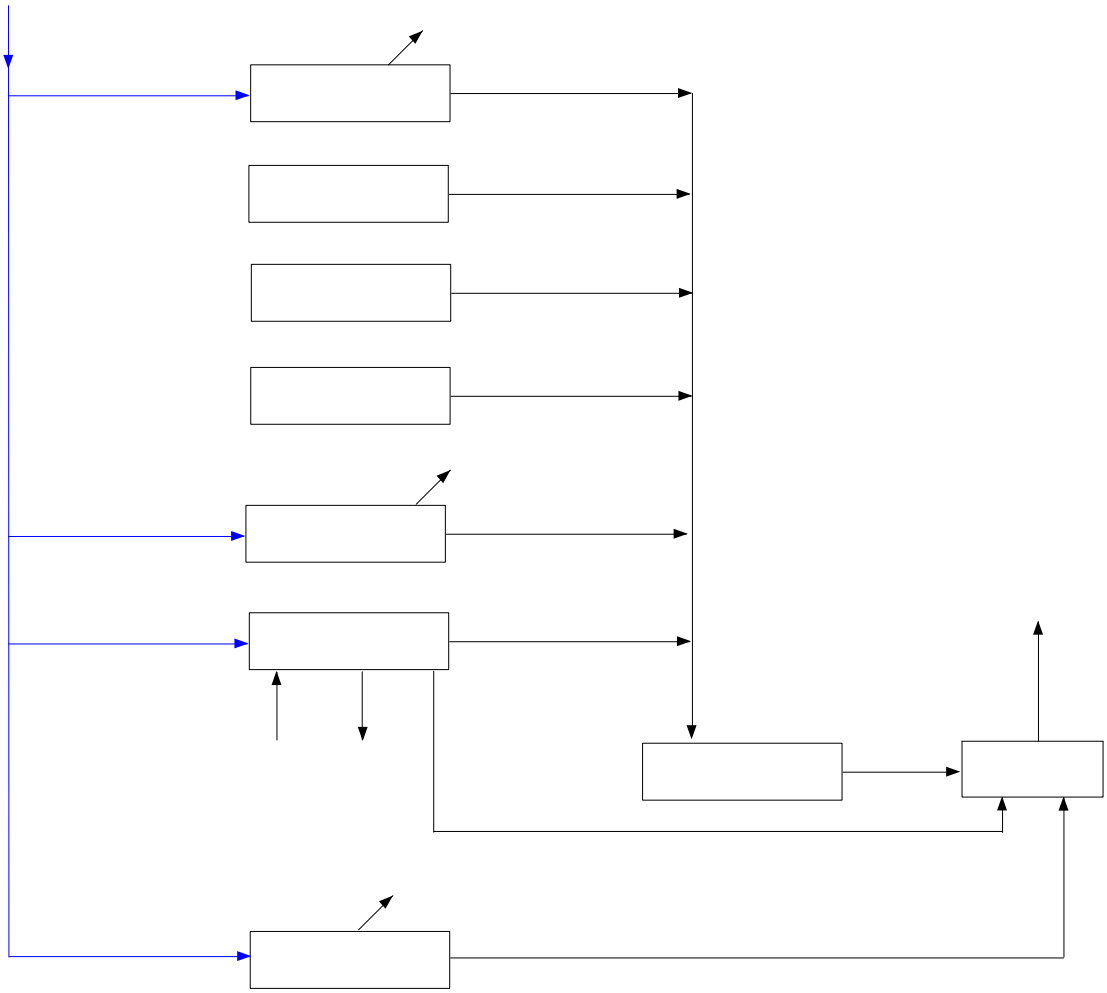


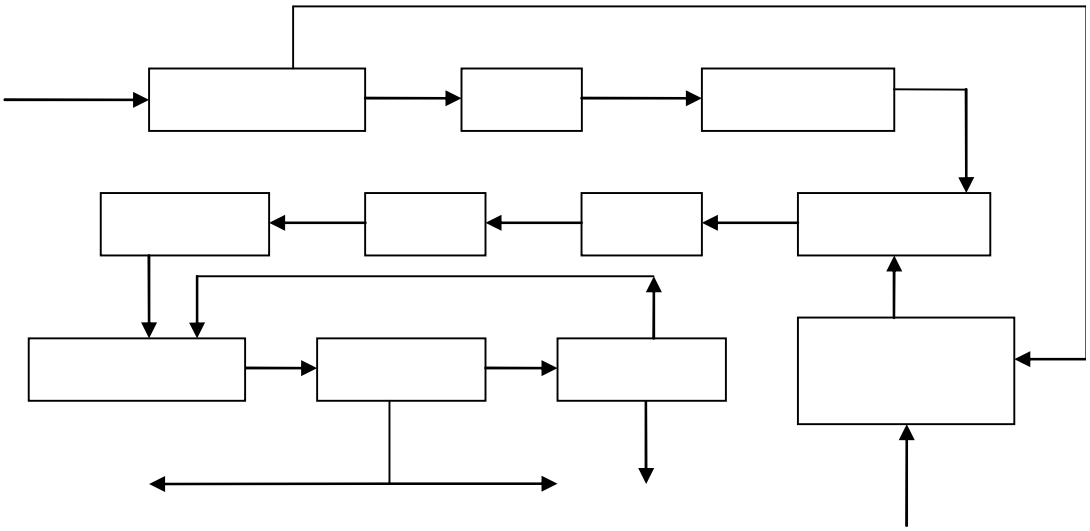


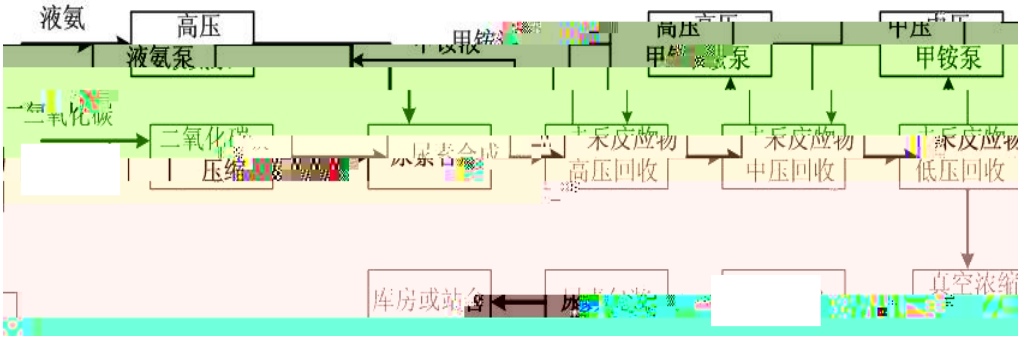


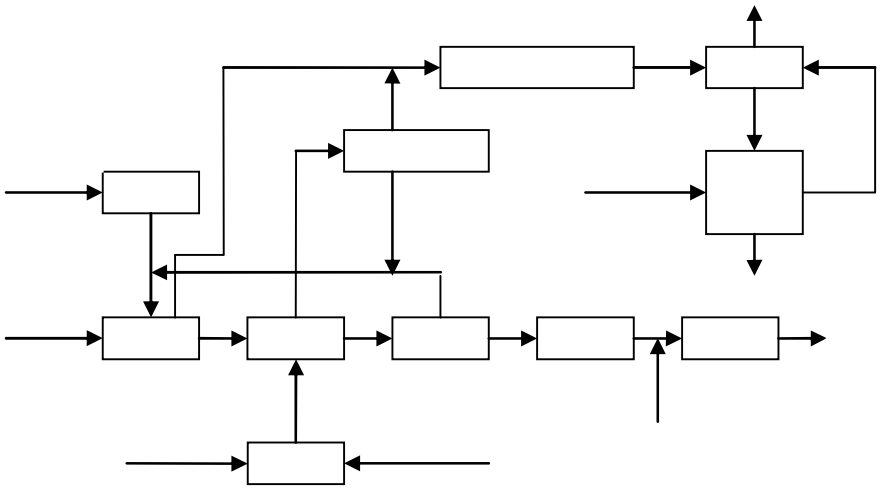


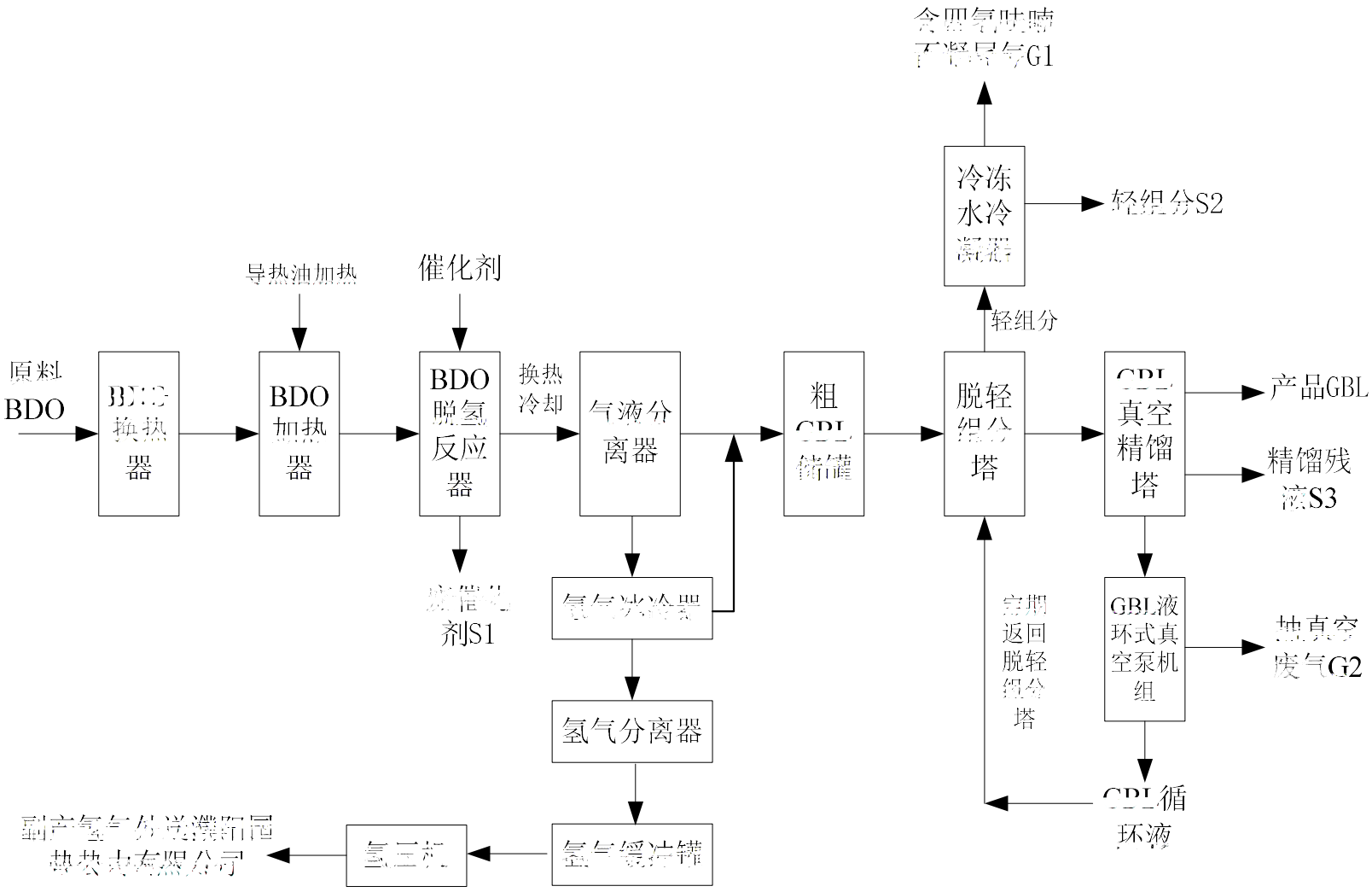


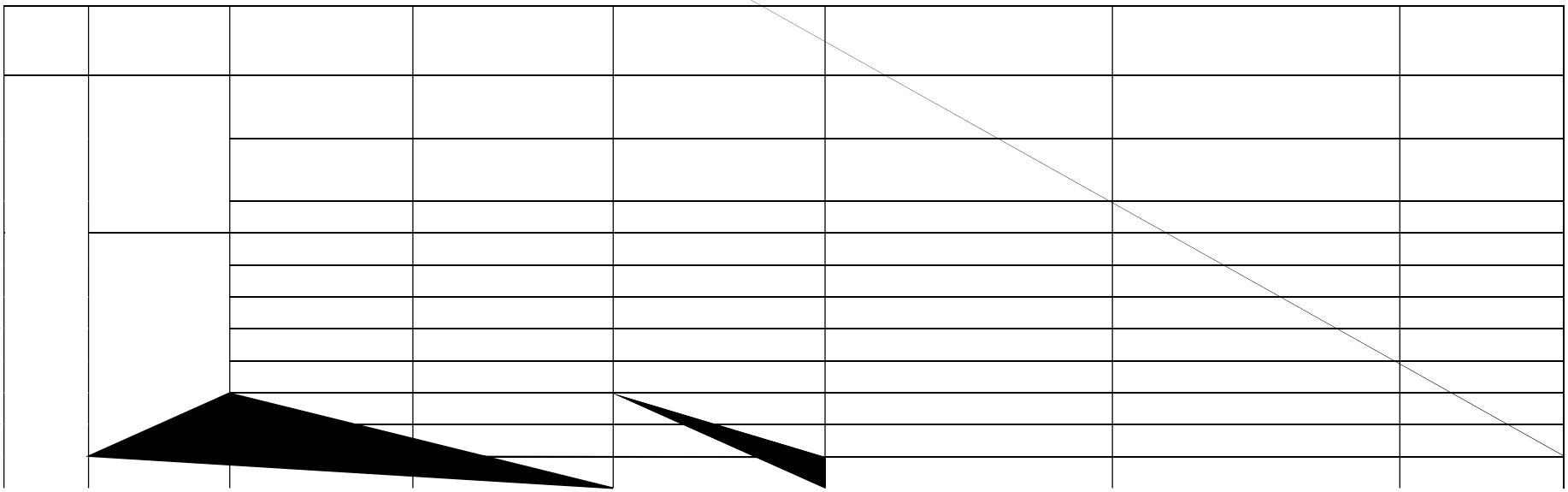


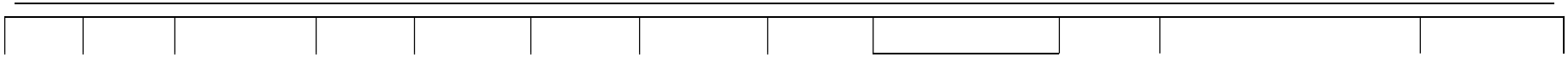



液氨
高压
液氨泵
甲铵
甲铵泵
甲铵泵
二氧化碳
压缩
原浆合成
未反应物
高压回收
未反应物
中压回收
未反应物
低压回收
真空浓缩

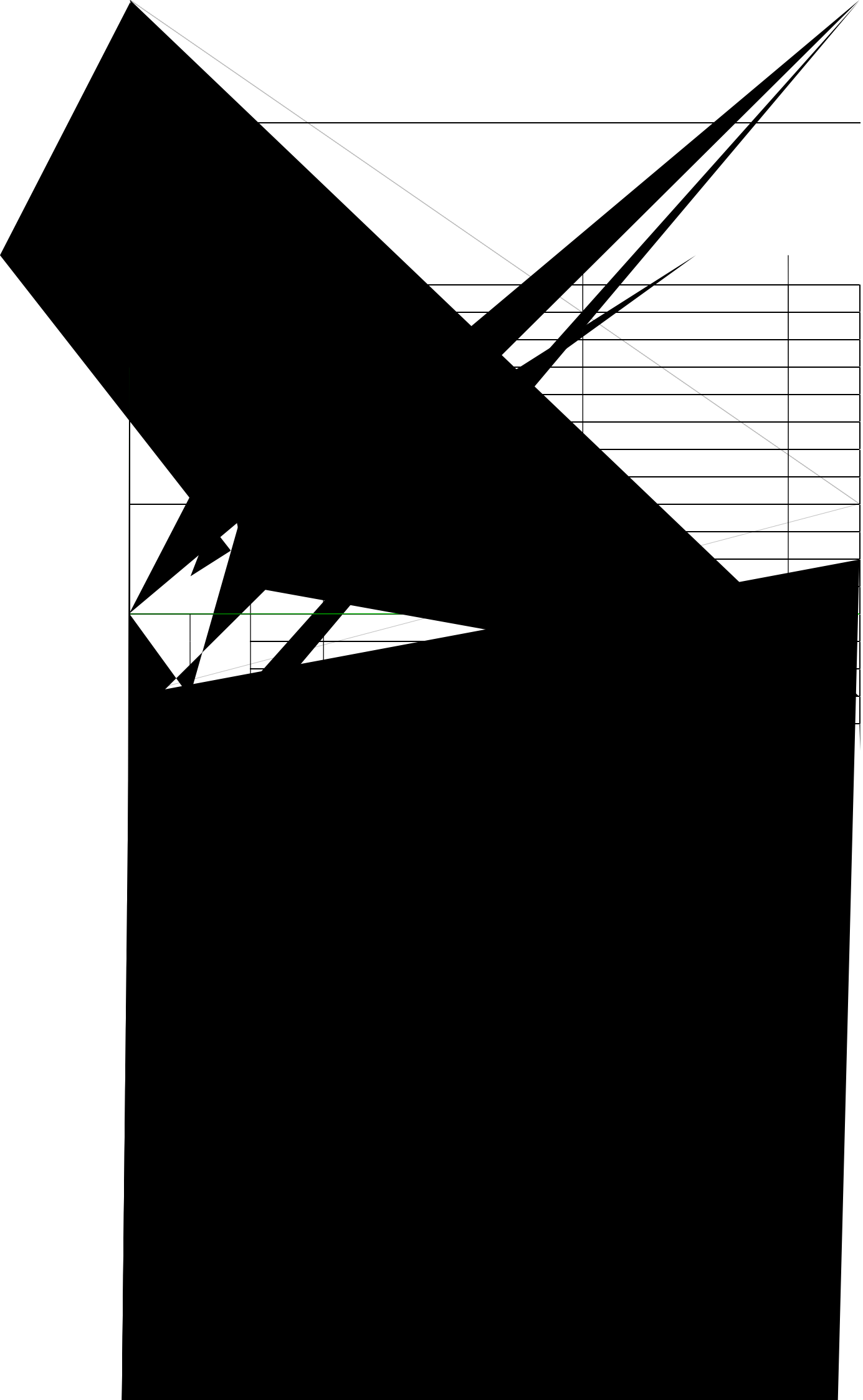


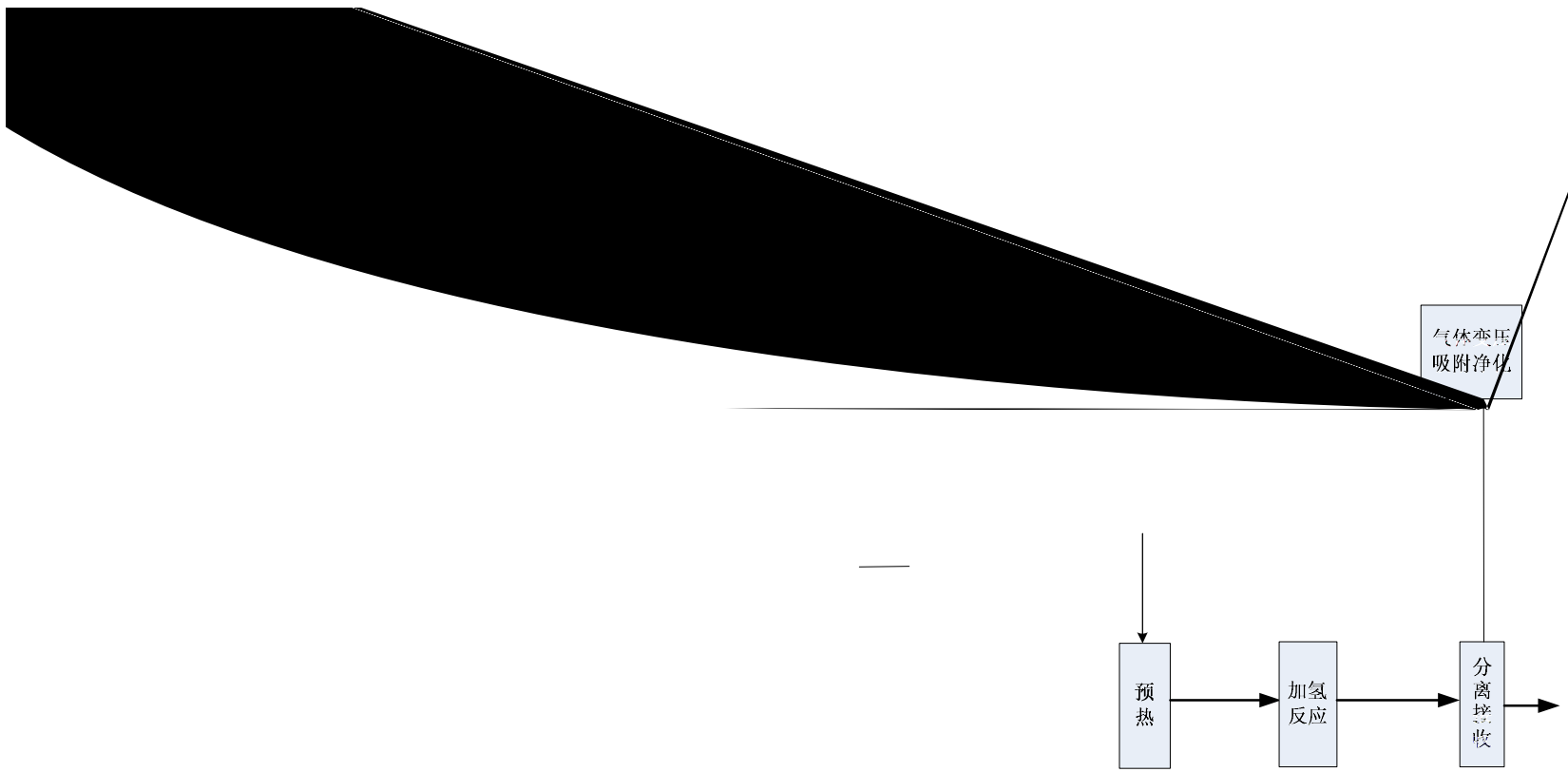

原料
BDO
BDO
换热
器
导热油加热
BDO
加热
器
催化剂
BDO
脱氢
反应
器
换热
冷却
气液分
离器
粗
GBL
储罐
脱轻
组分
塔
轻组分
冷冻
水冷
凝器
轻组分S2
含氢气体脱
离后尾气G1
GBL
真空
精馏
塔
产品GBL
精馏残
液S3
GBL液
环式真
空泵机
组
地真空
废气G2
定期
返回
脱轻
组分
塔
GBL循
环液
氢气分离器
氢气缓冲罐
氢三机

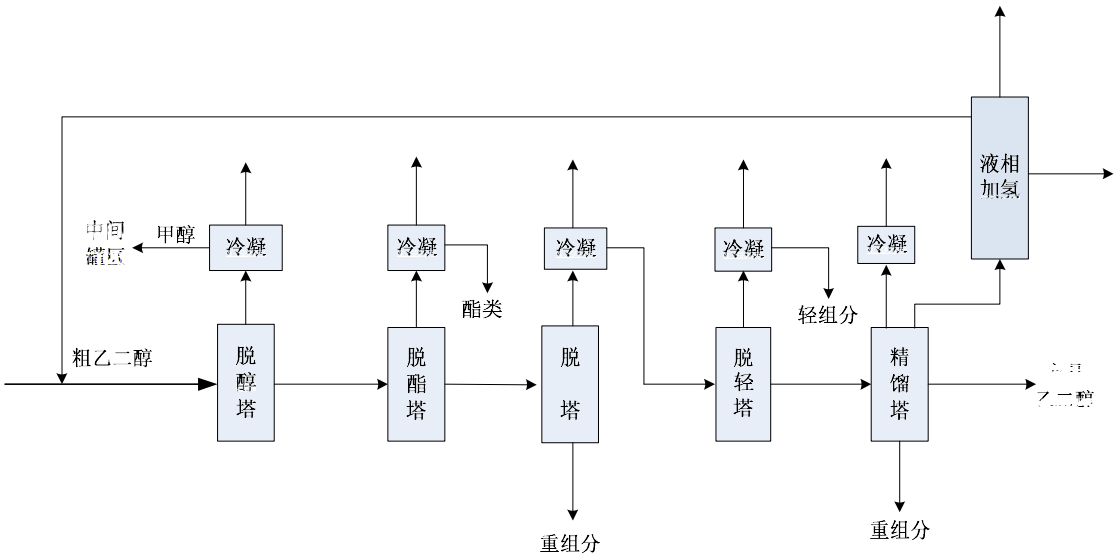


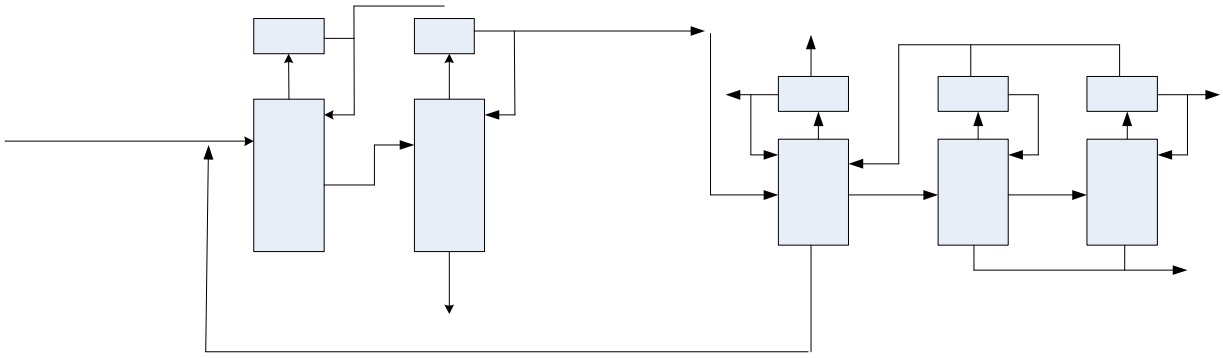


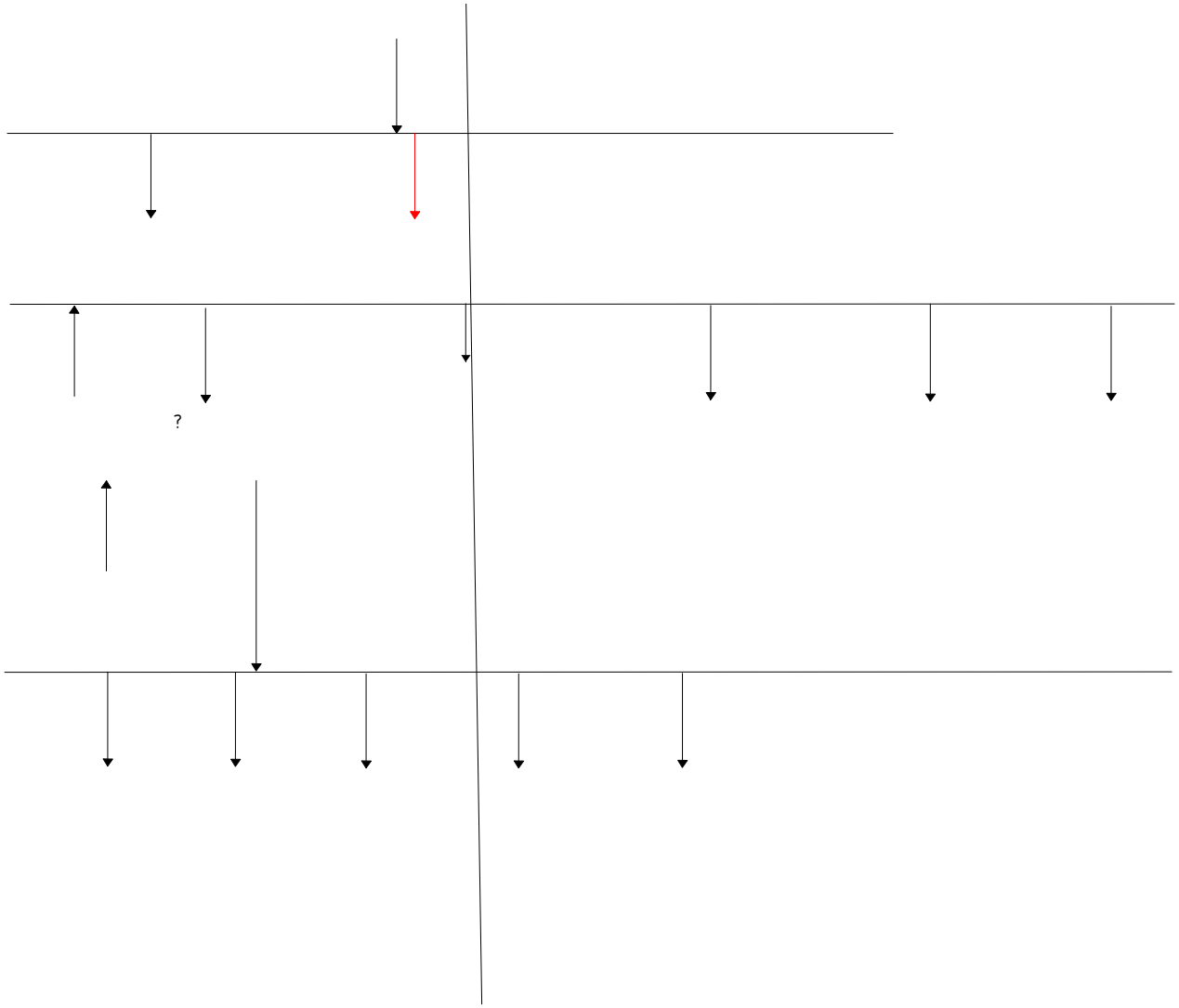
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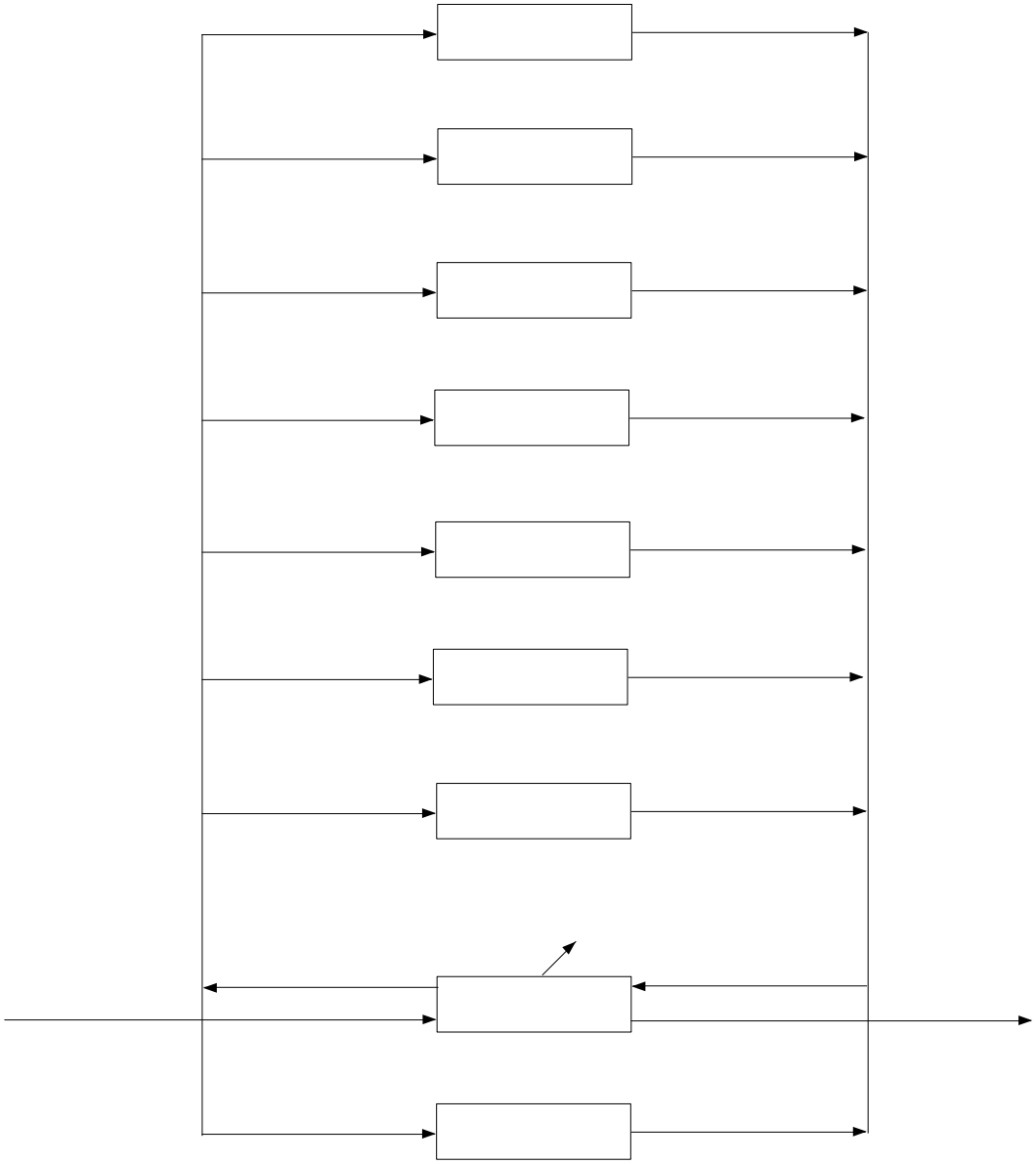



吸附净化
预热
加氢反应
分离接收

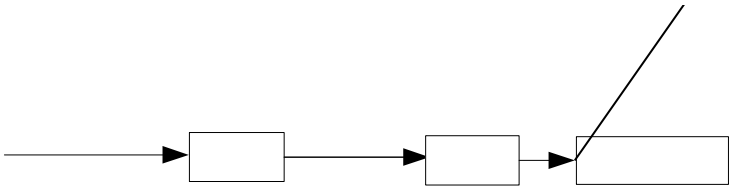

液相
加氢
中间
罐区
甲醇
冷凝
冷凝
冷凝
冷凝
冷凝
酯类
轻组分
粗乙二醇
脱
醇
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重组分
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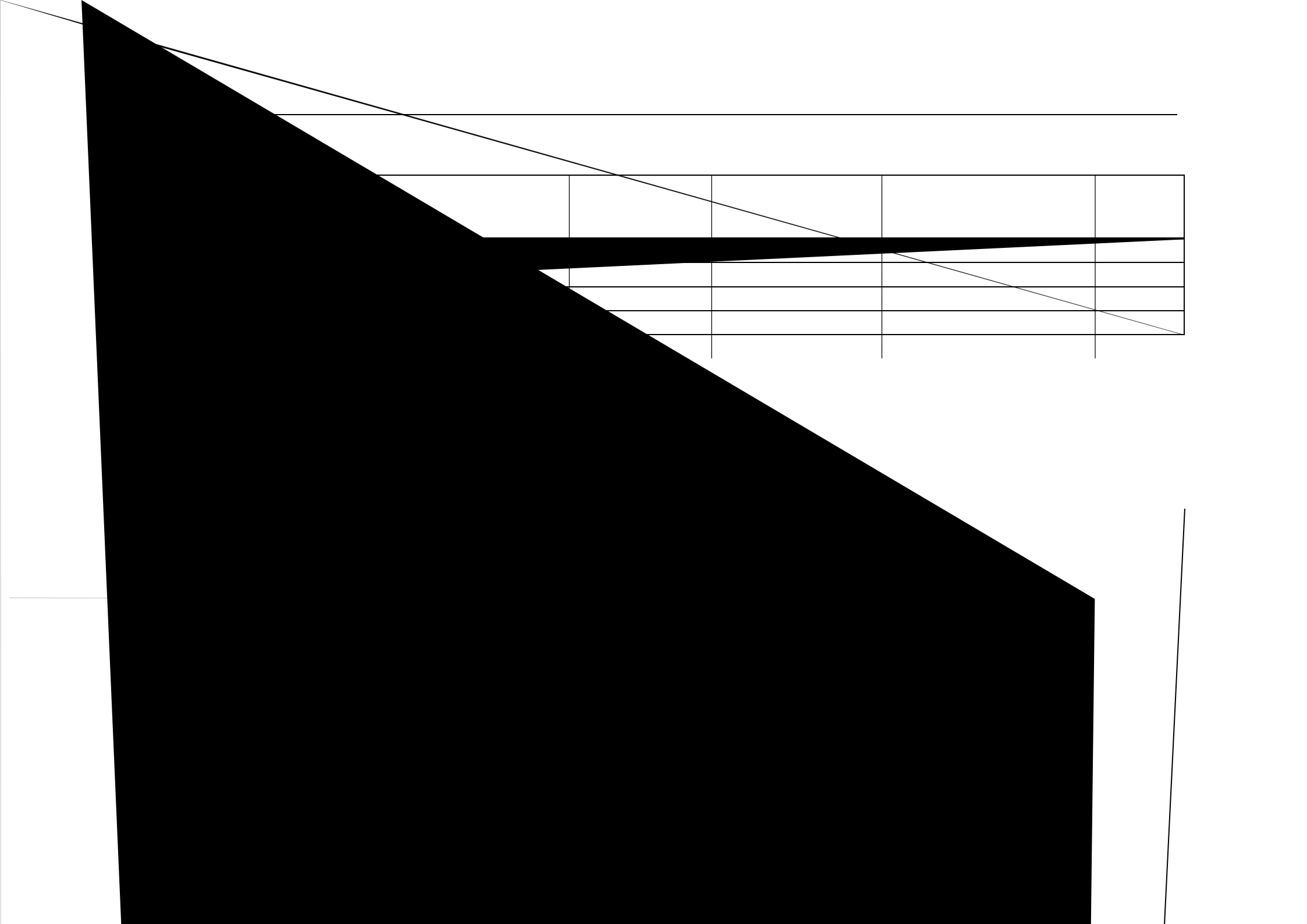




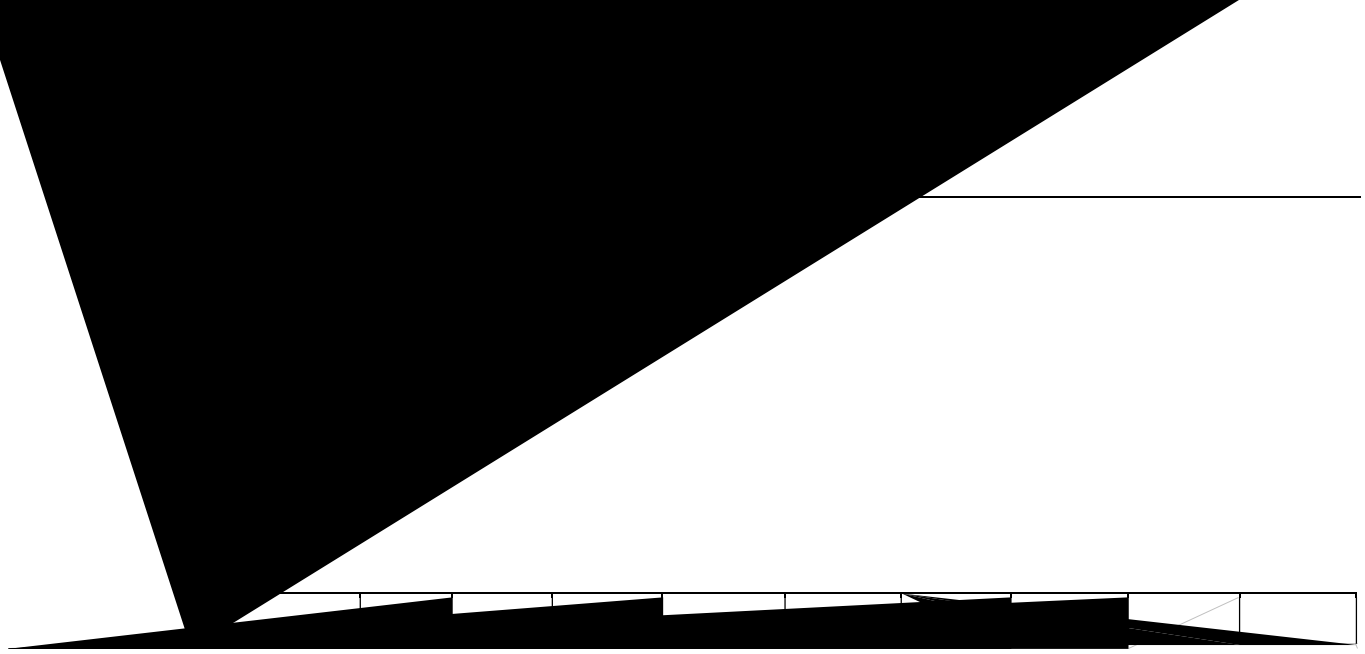


3D

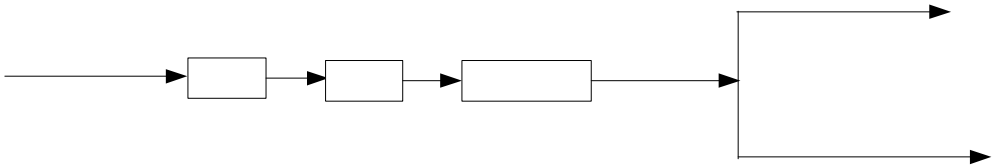


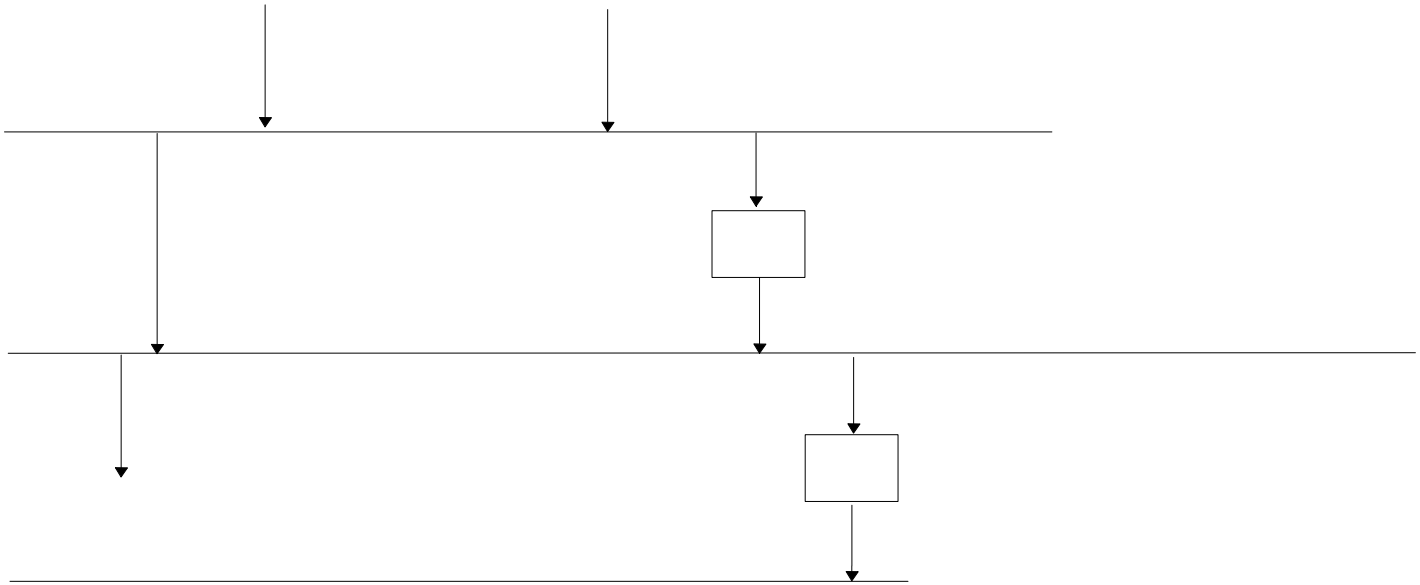


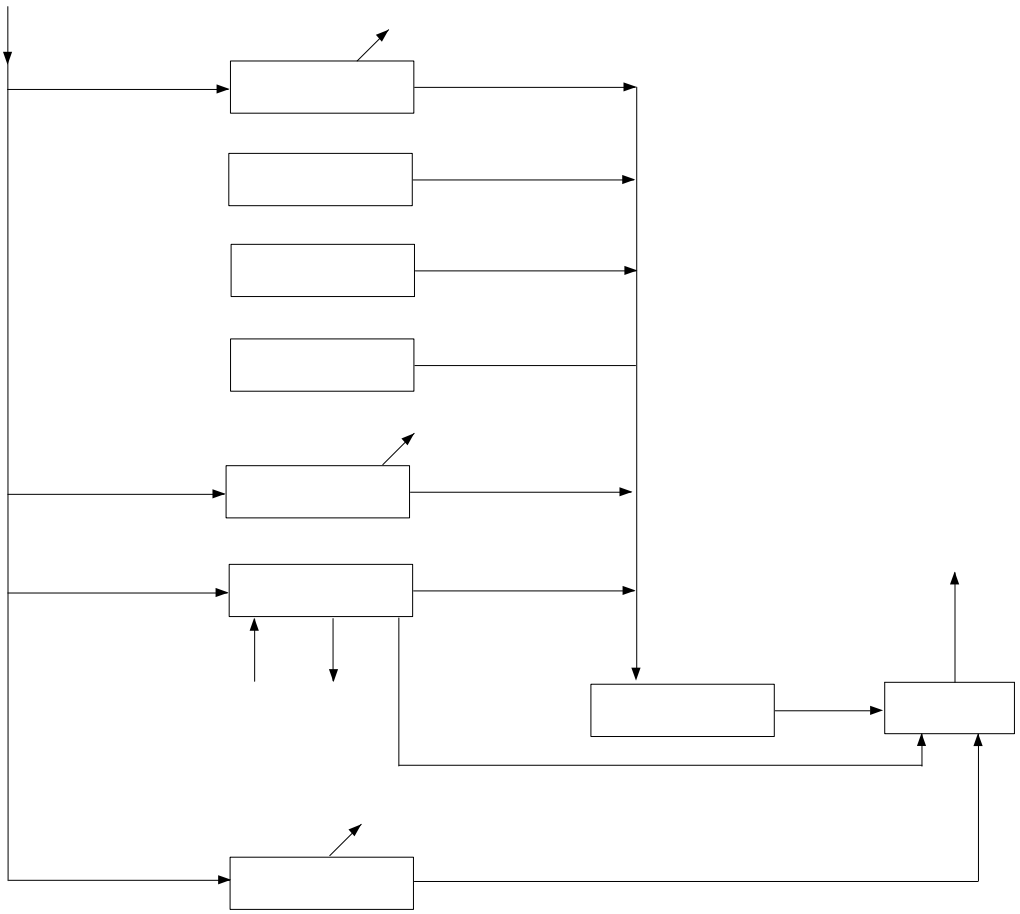
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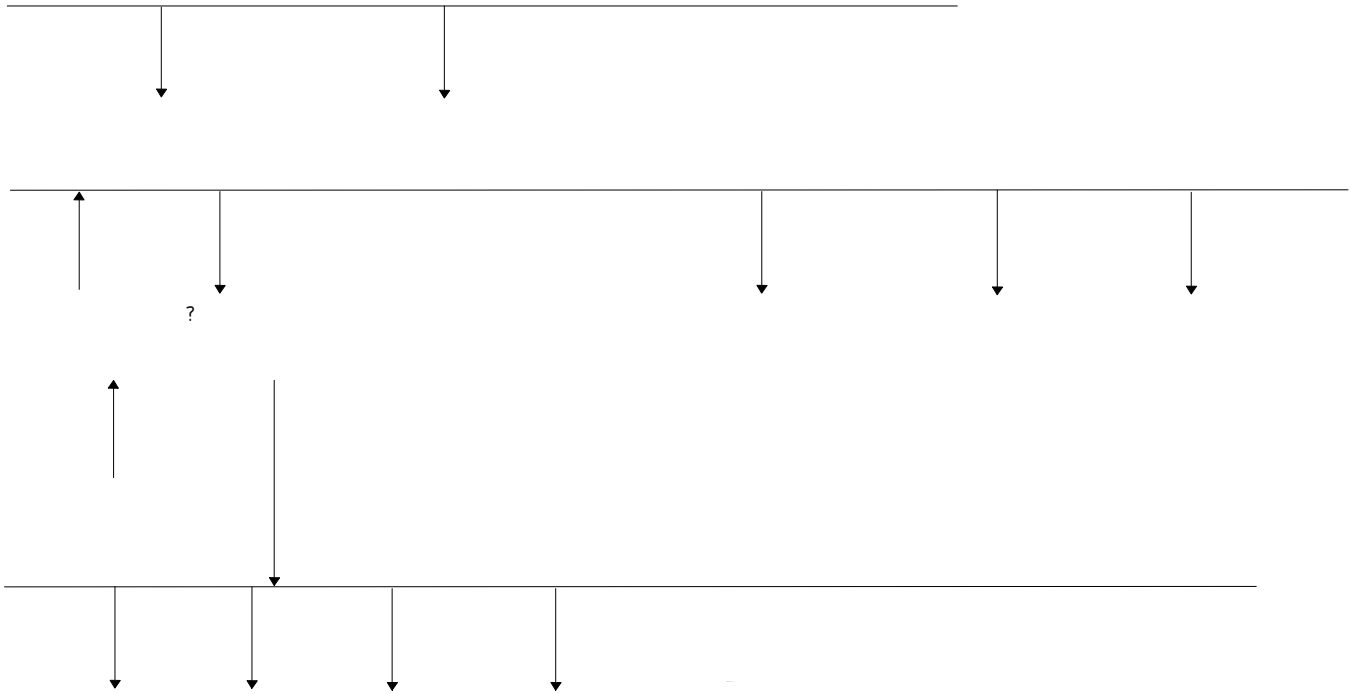


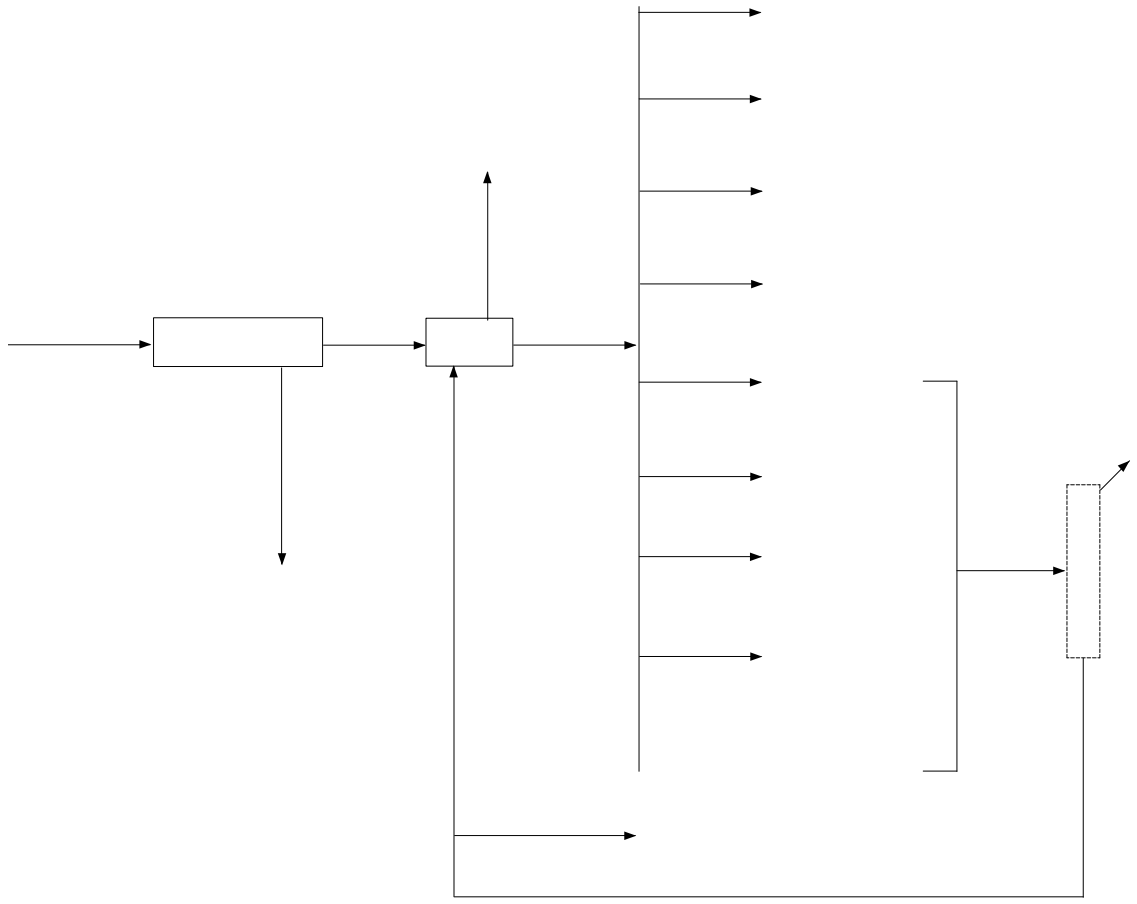
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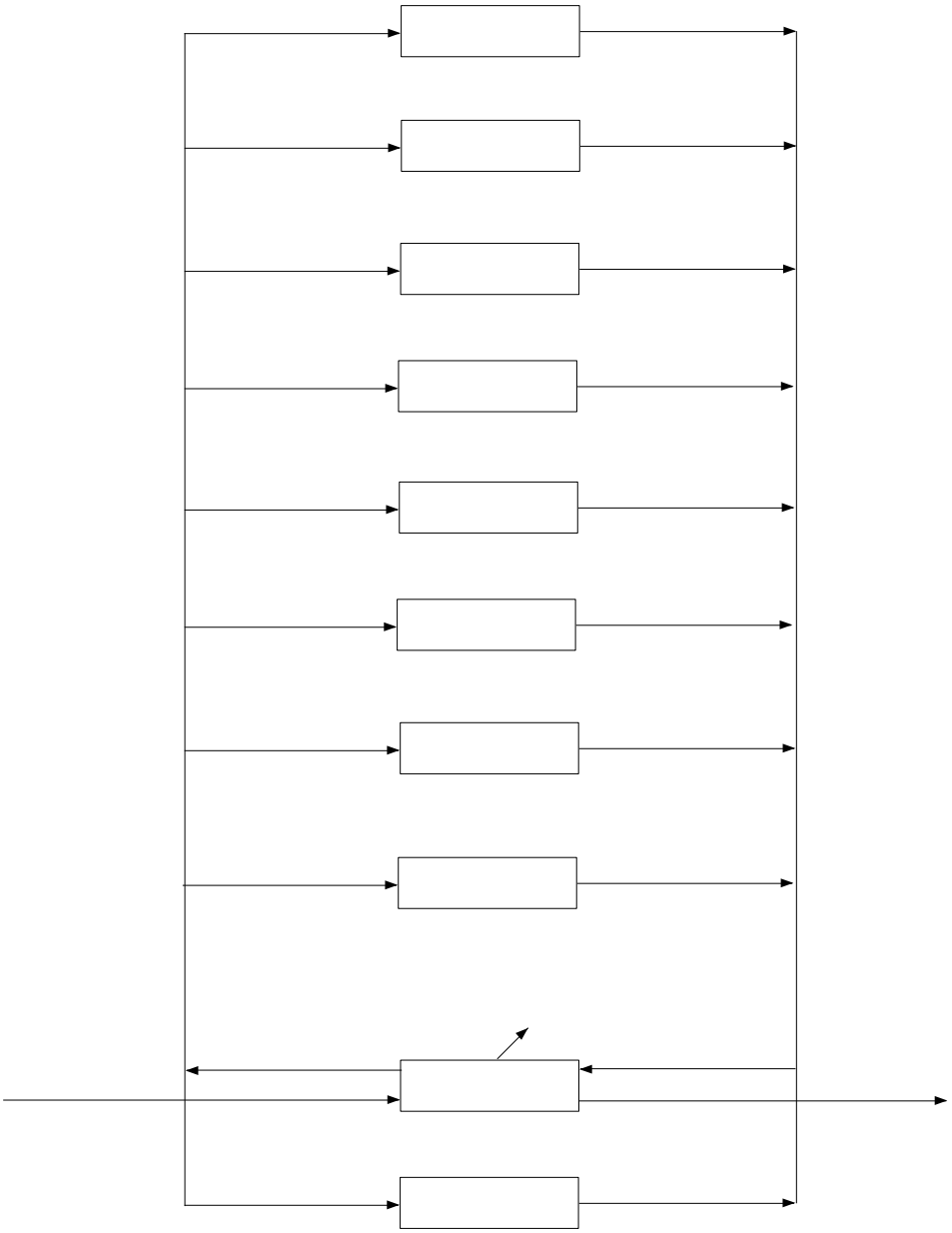


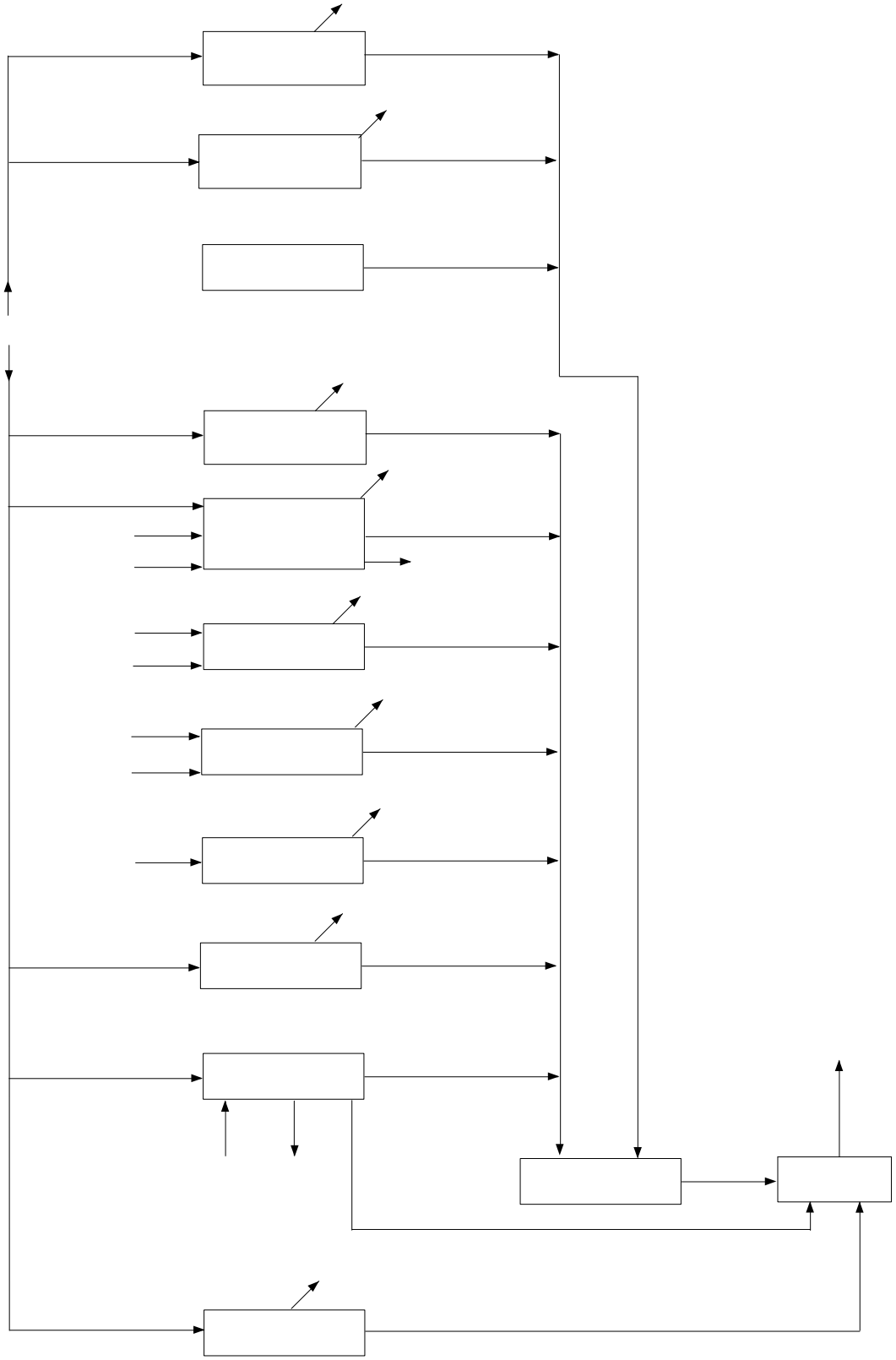






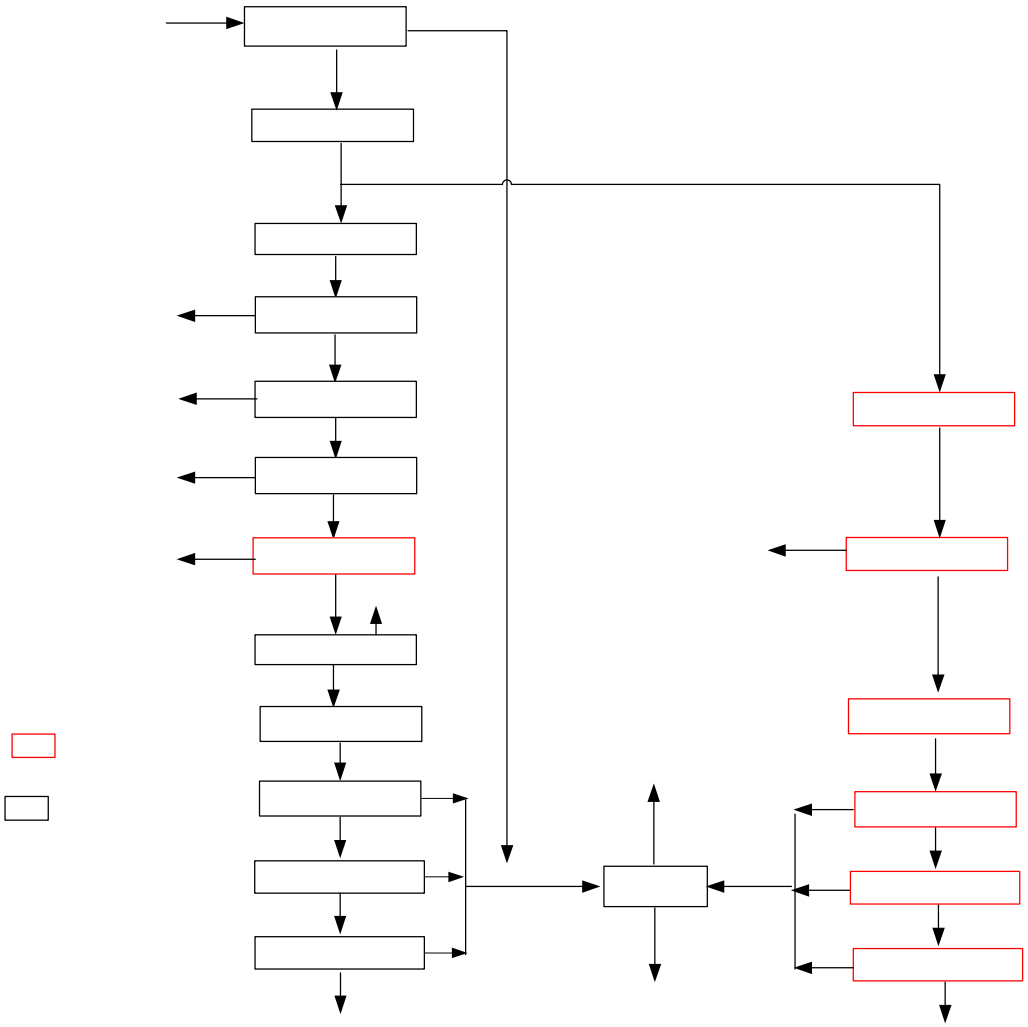


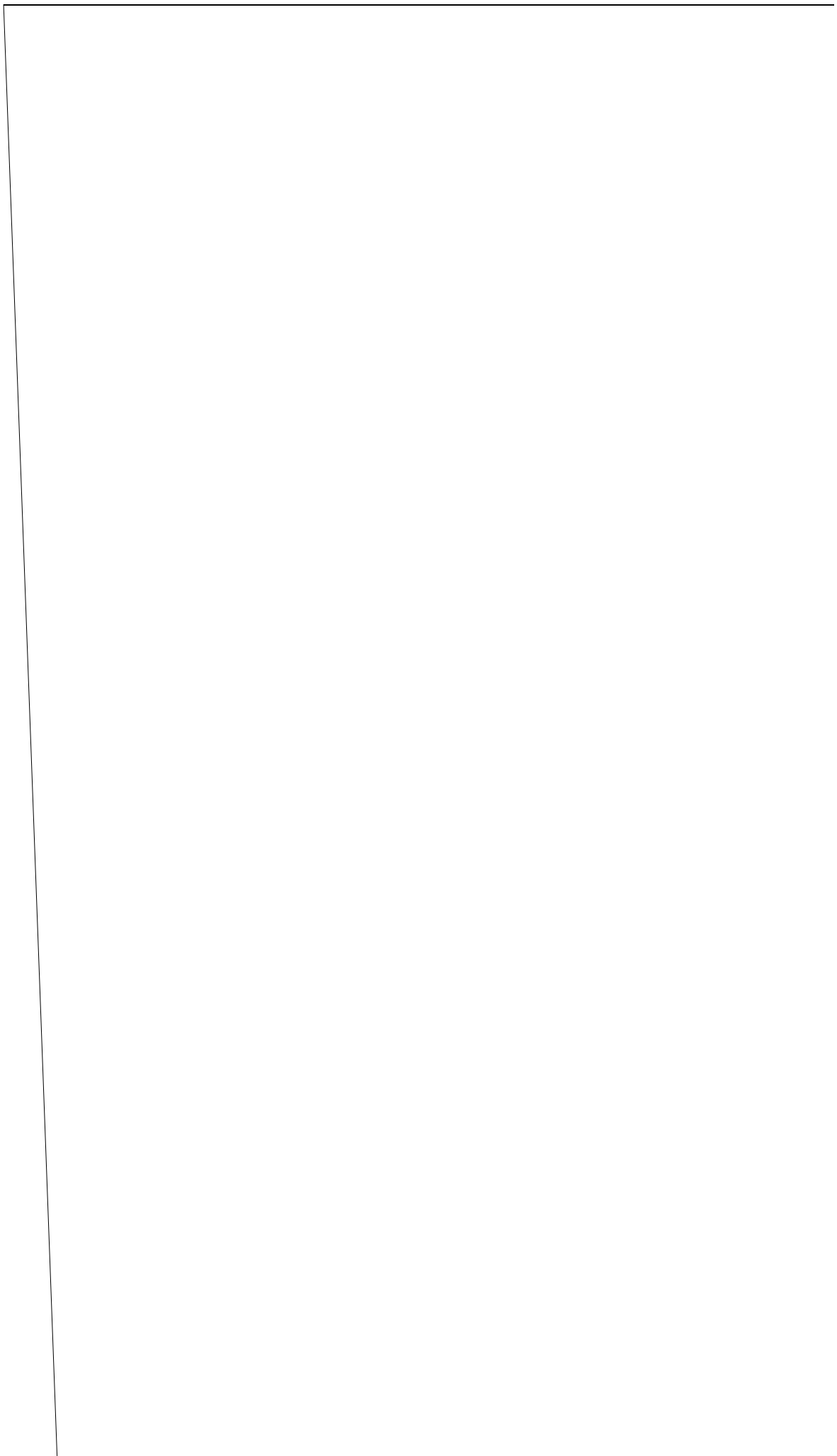


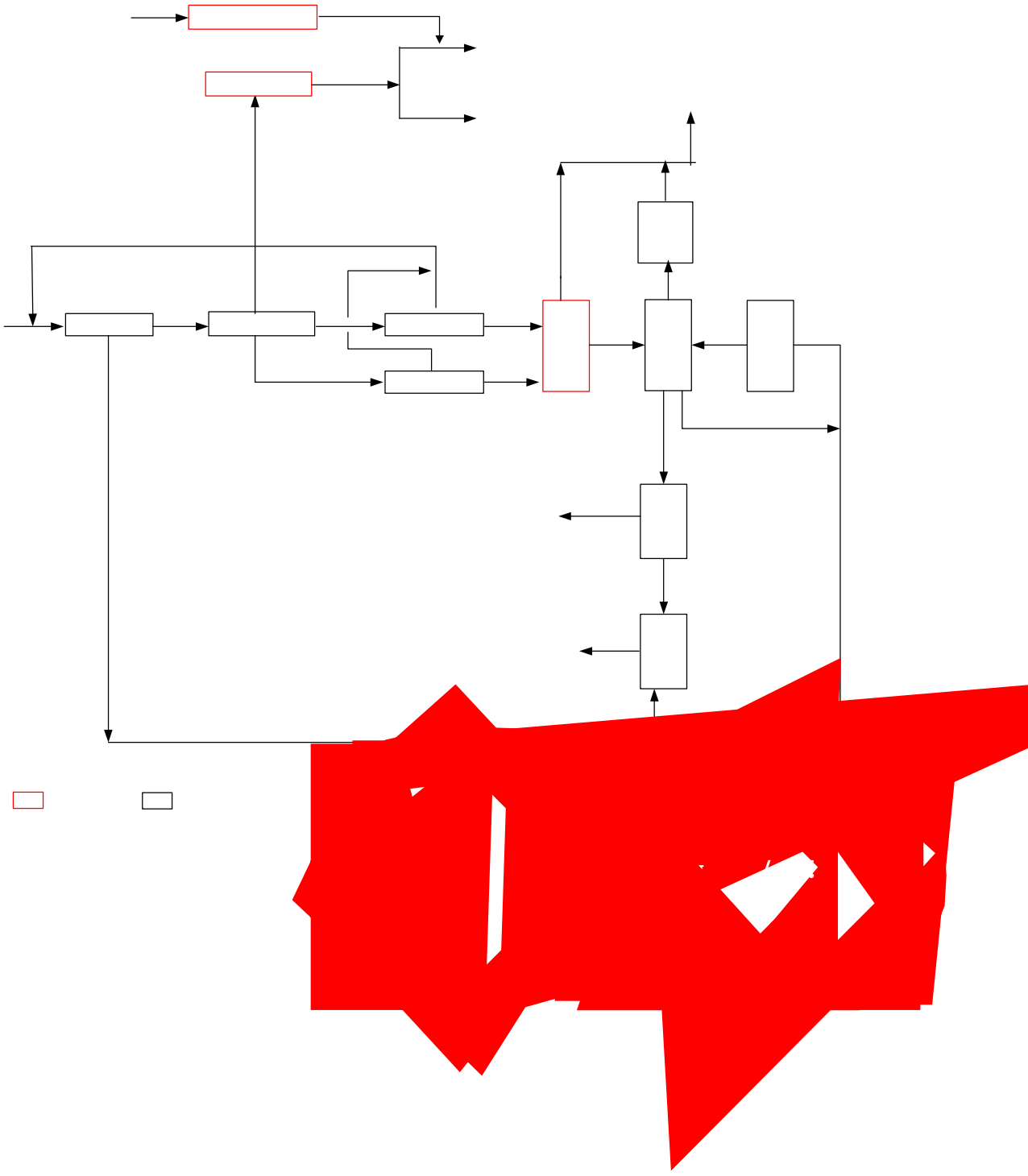


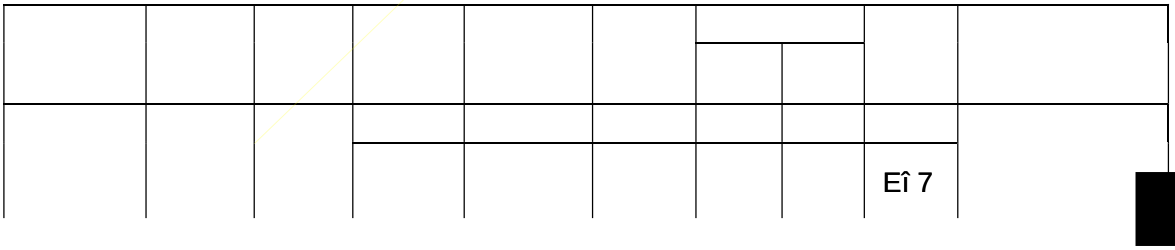

空气过滤器
空气压缩机
空气冷却塔

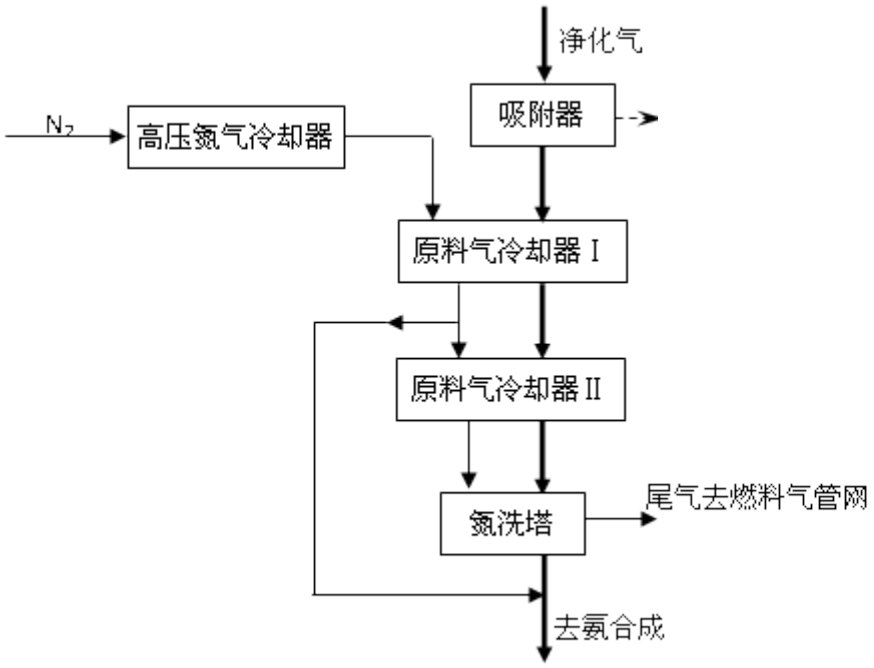






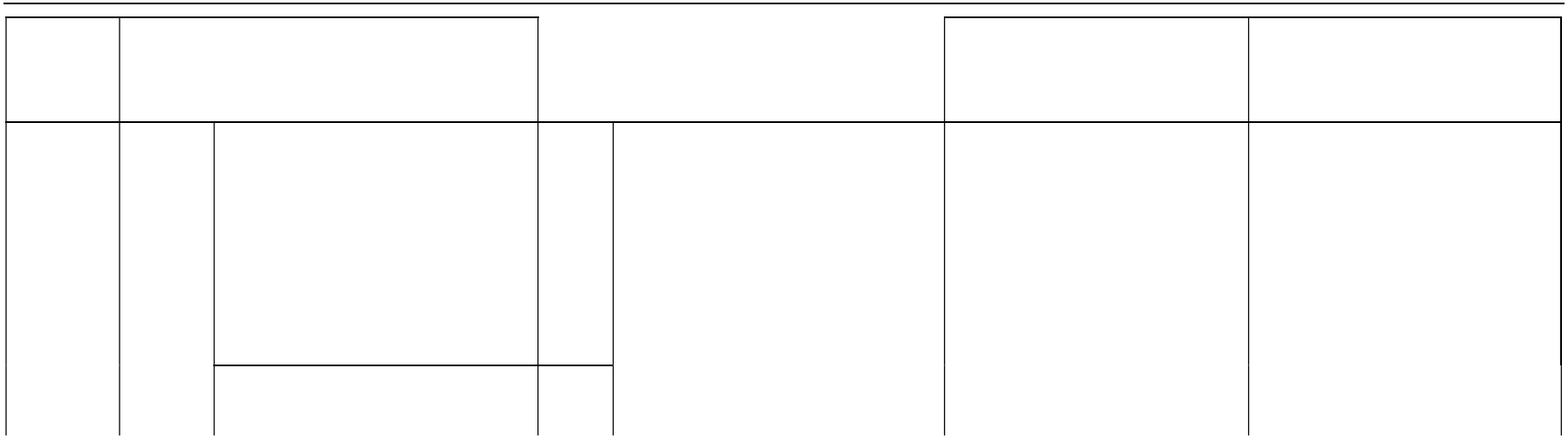



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净化气
吸附器
N_2
高压氮气冷却器
原料气冷却器 I
原料气冷却器 II
氮洗塔
尾气去燃料气管网
去氨合成



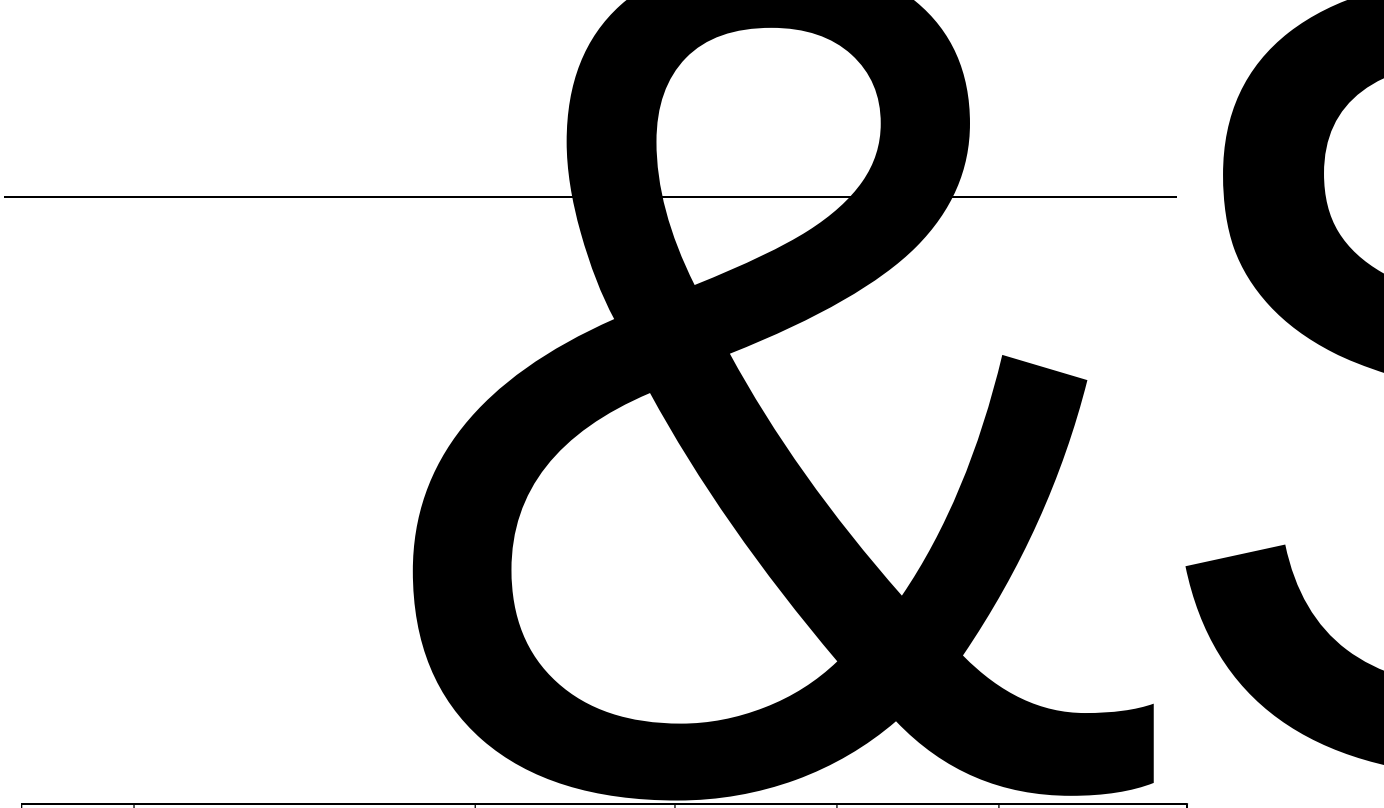
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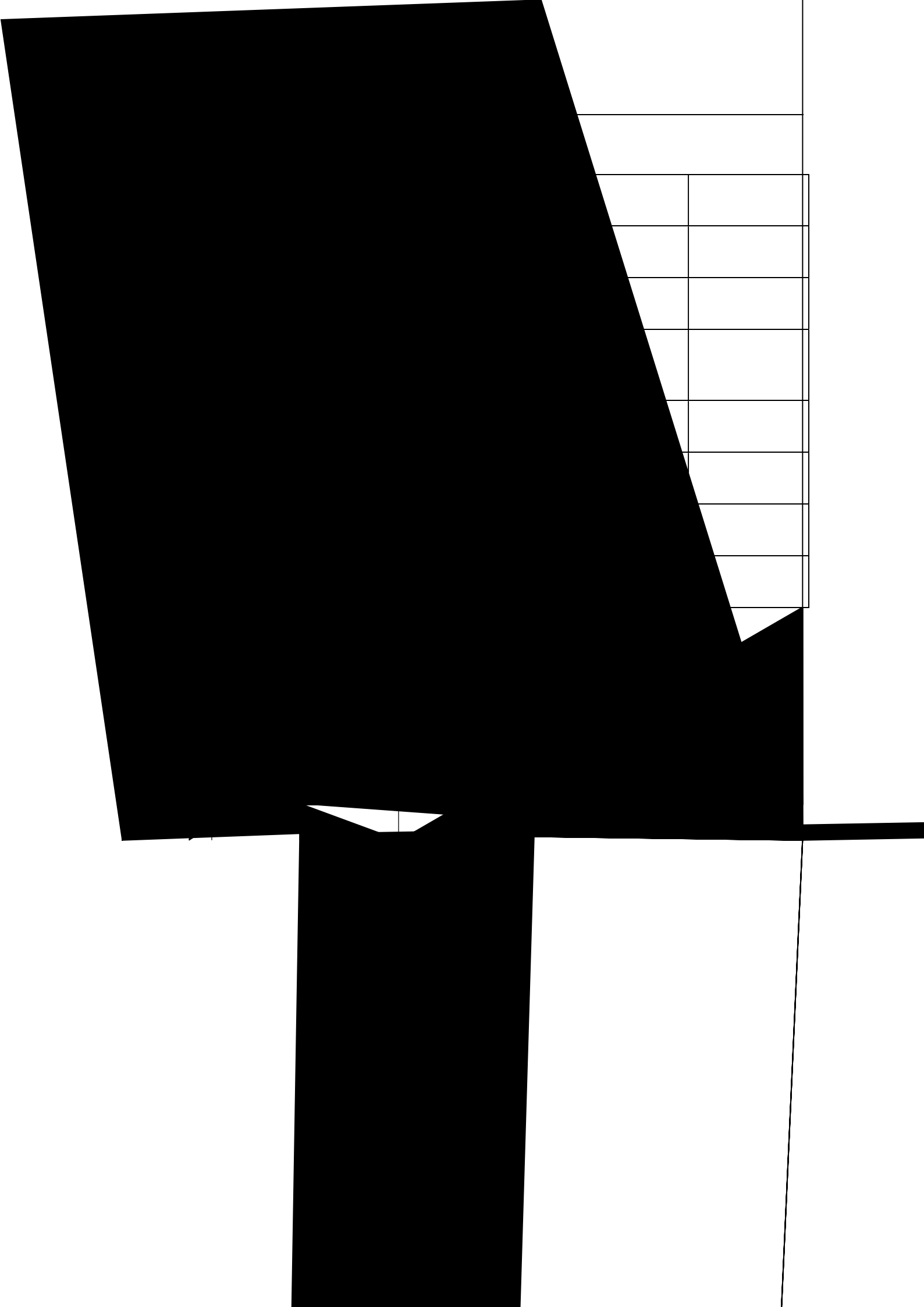


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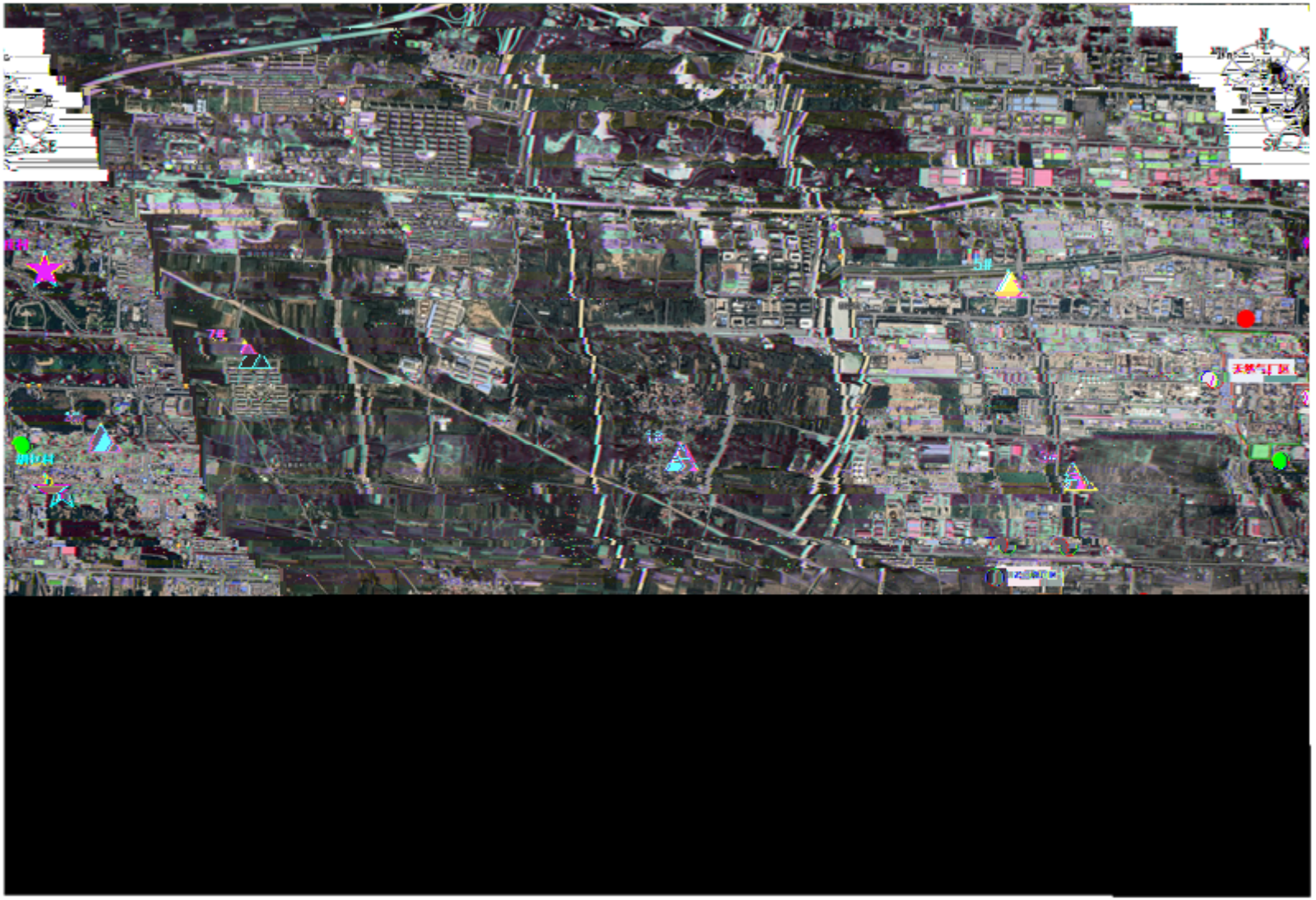


$$C_{现状(x,y)} = \mathrm{MAX}\left[\frac{1}{n}\sum_{i=1}^{n} C_{监测(x,y)_i}\right] \quad (3)$$

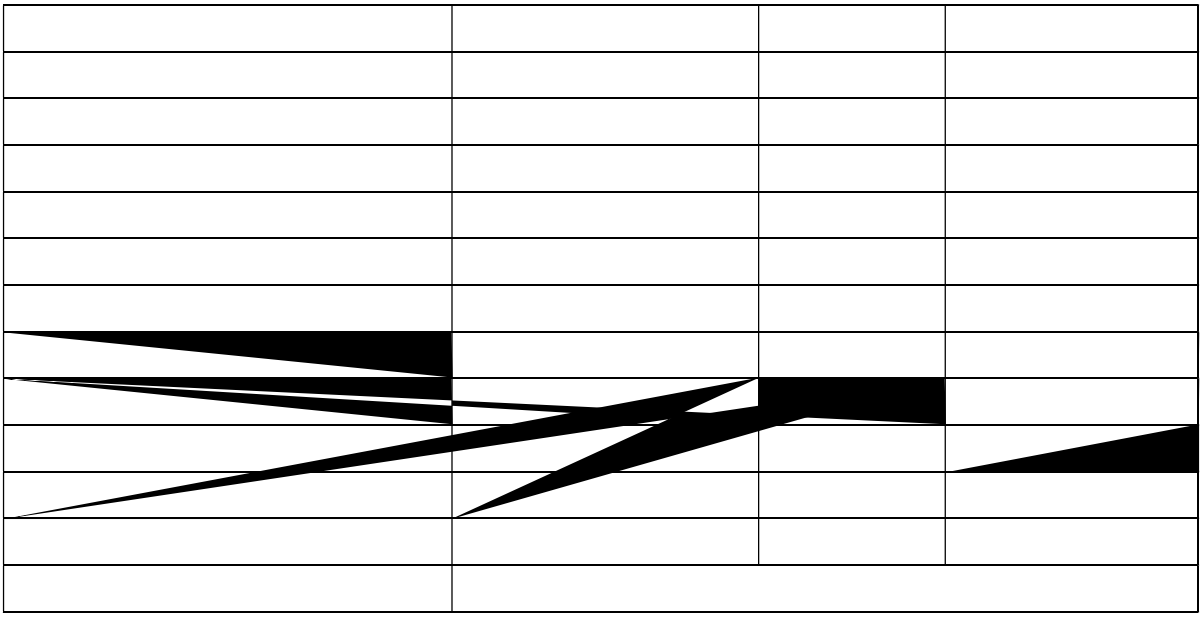
式中：$C_{现状(x,y)}$——某点(x,y)处特征因子现状浓度，μg/m³；

$C_{监测(x,y)_i}$——第i个监测点位在x、y时刻环境质量现状浓度实测值（小时平均、8h平均或日平均浓度），μg/m³；

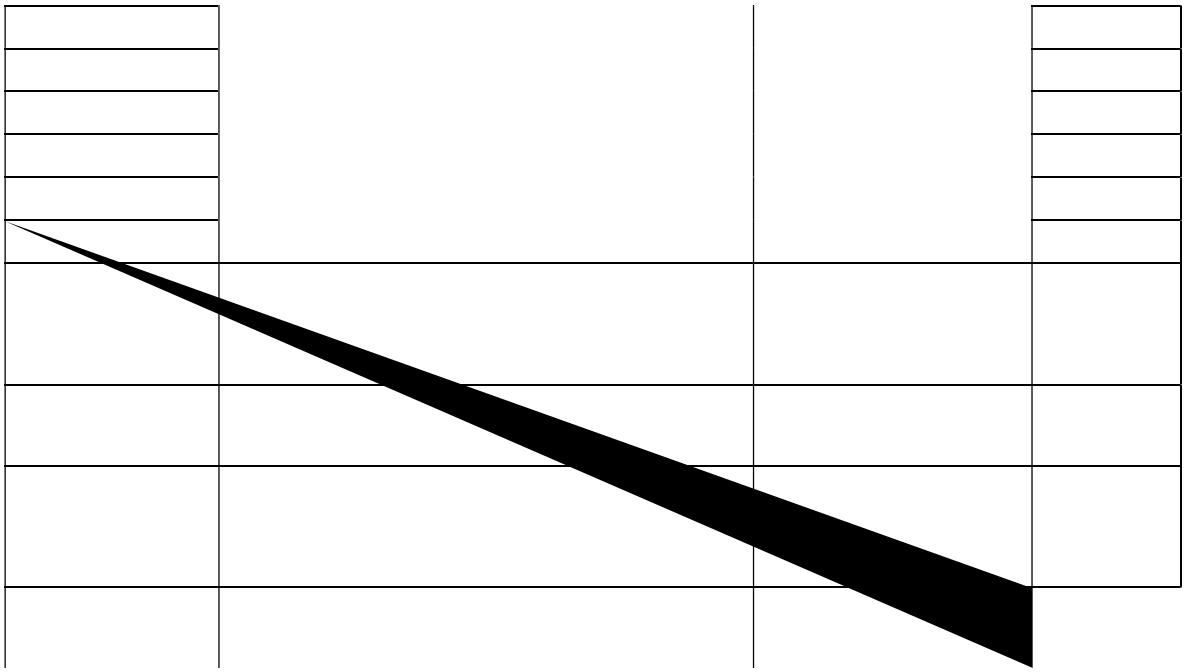
n——现状监测点位数。



„ (x"±d [ǵ[ɣ ɬ↯ ɣ↯



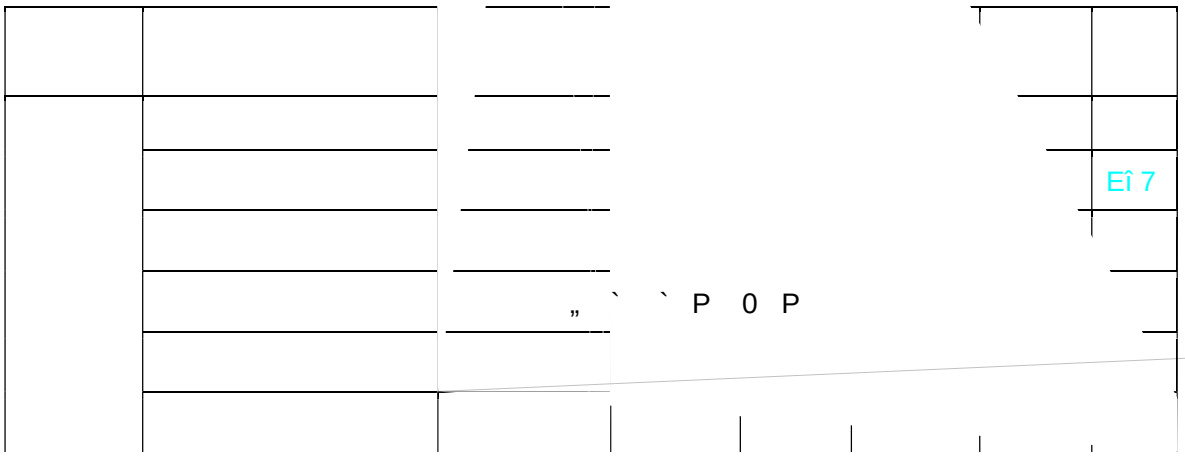
+X)ﻮﻫ ﻚ \ ﻝ ٧ Ę ¦ ⁎0ﻭ ¤„ﻮﻭK0 ، ﻁ Ọ ﻮﻭ ﻮﻭ ٧ ''' ﻭ i)

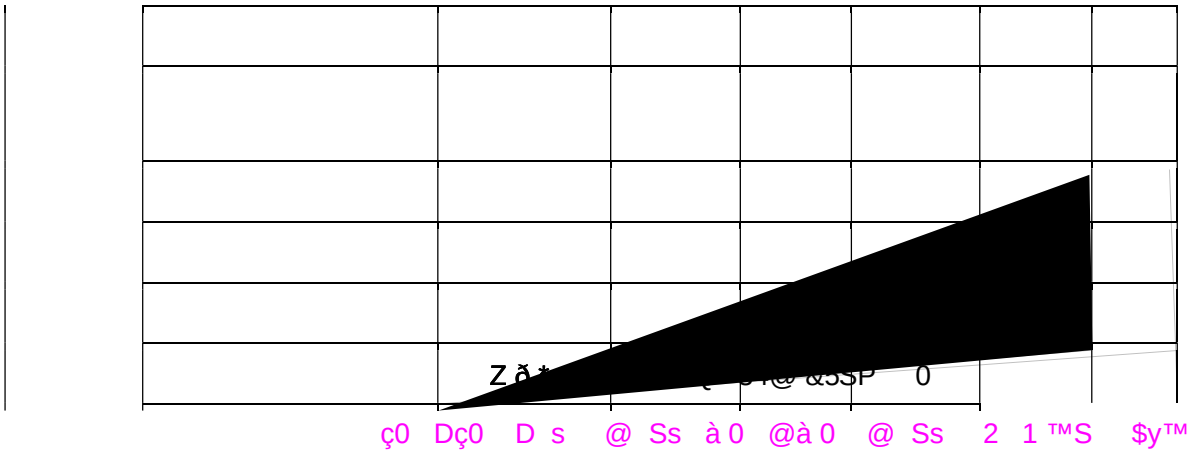


$$S_{pH,\ j} = \frac{7.0\text{-}pH_j}{7.0\text{-}pH_{sd}}$$

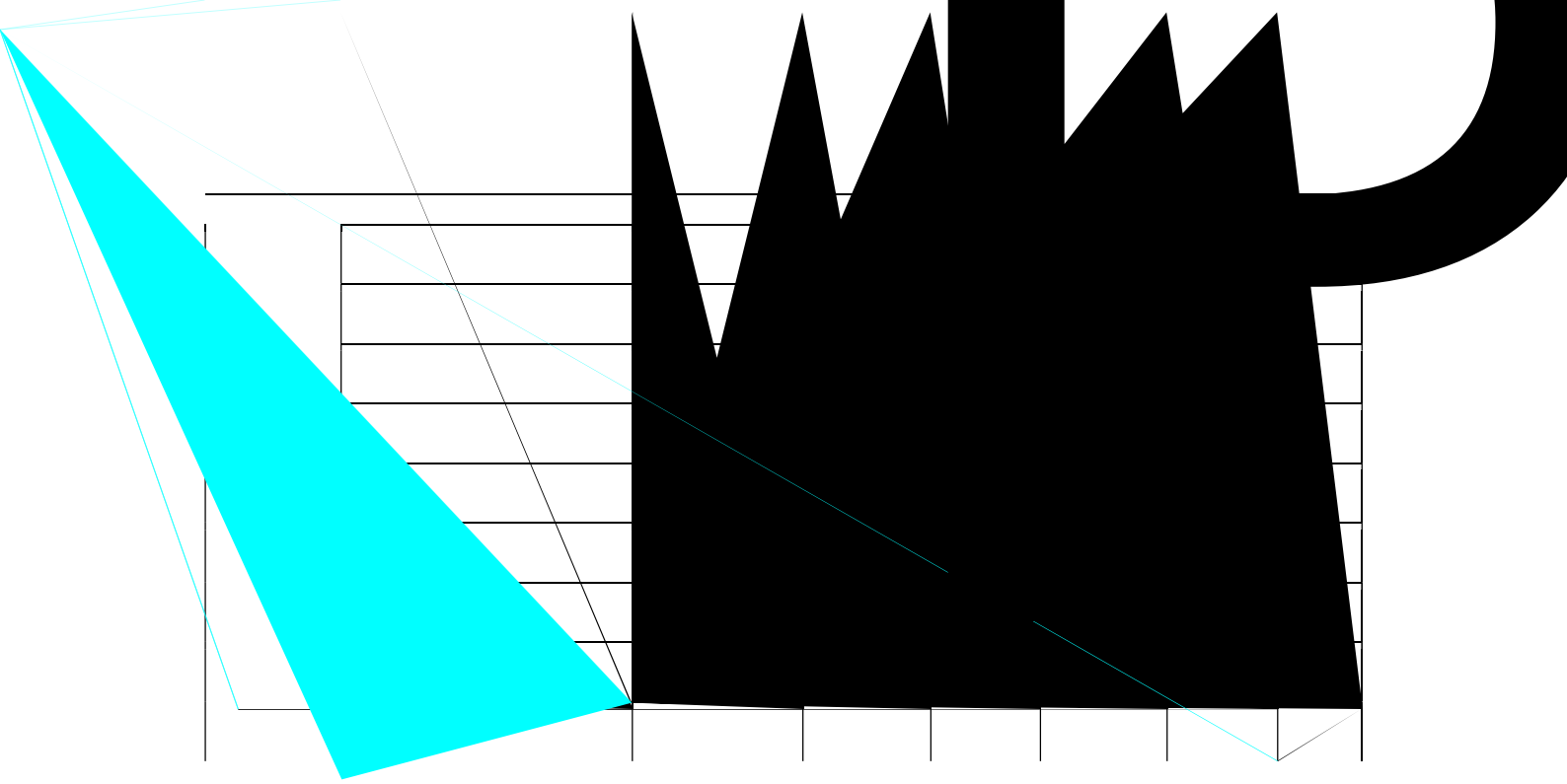
$$S_{pH,\ j} = \frac{pH_j\text{-}7.0}{pH_{su}\text{-}7.0}$$

)

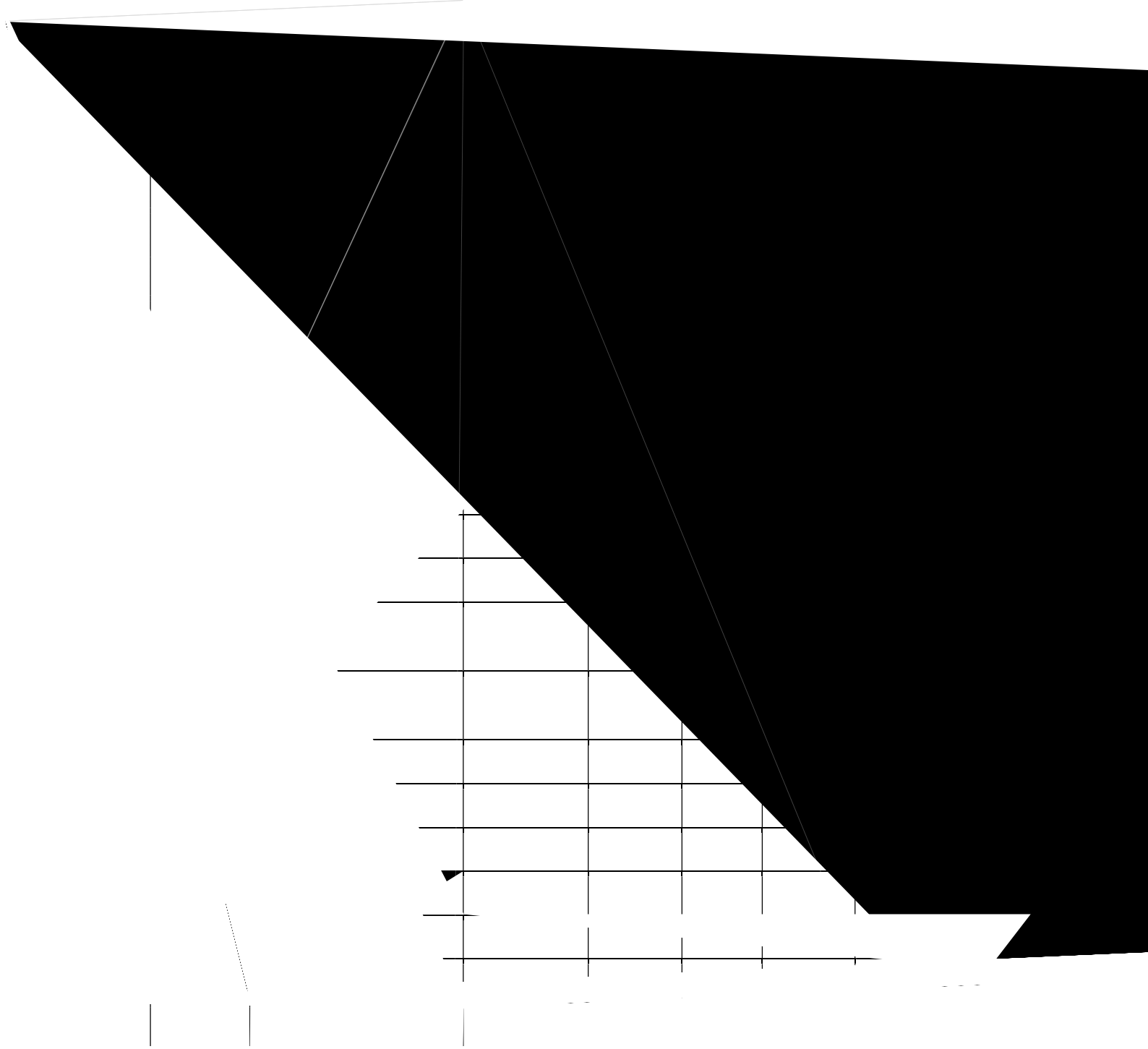


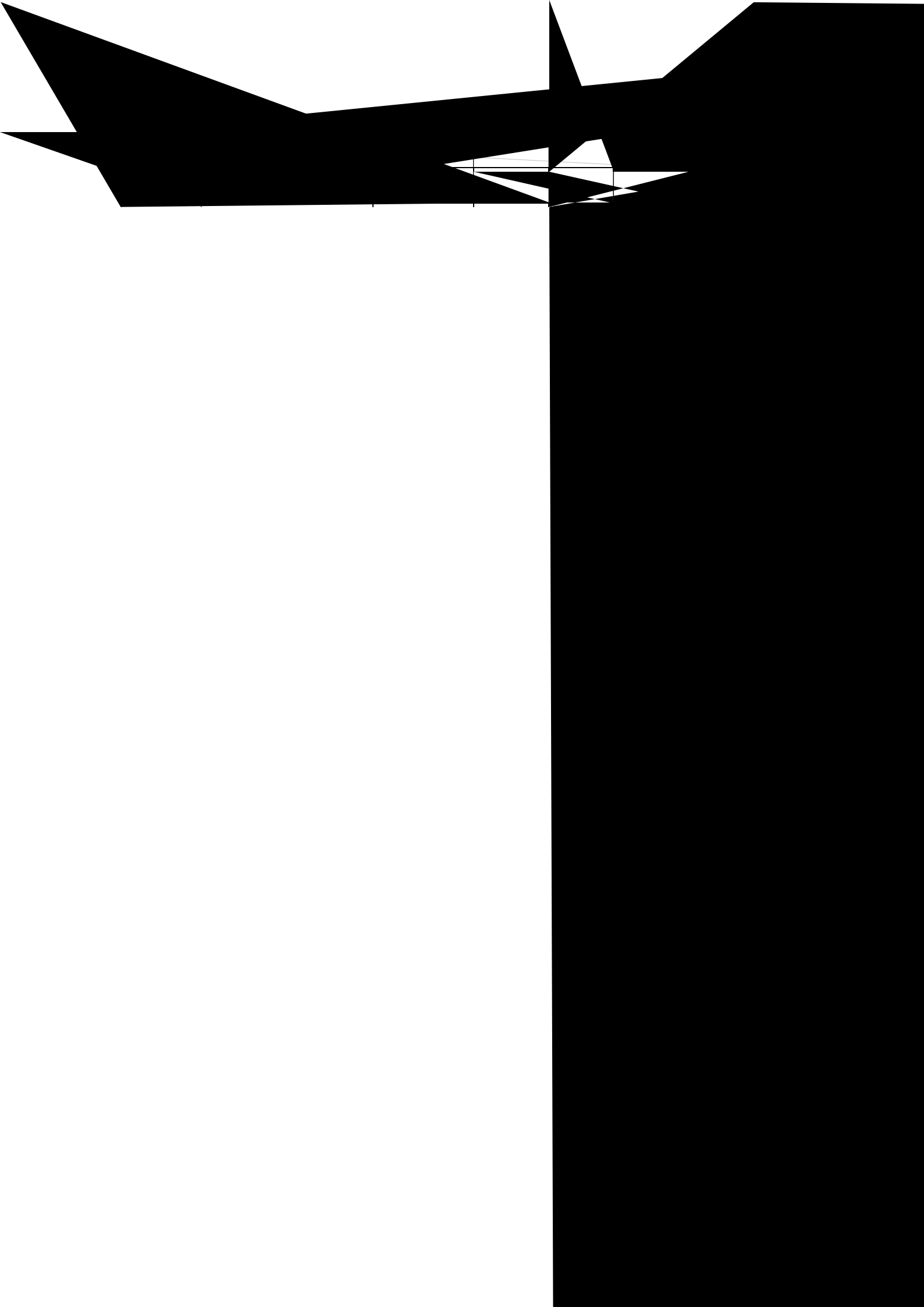


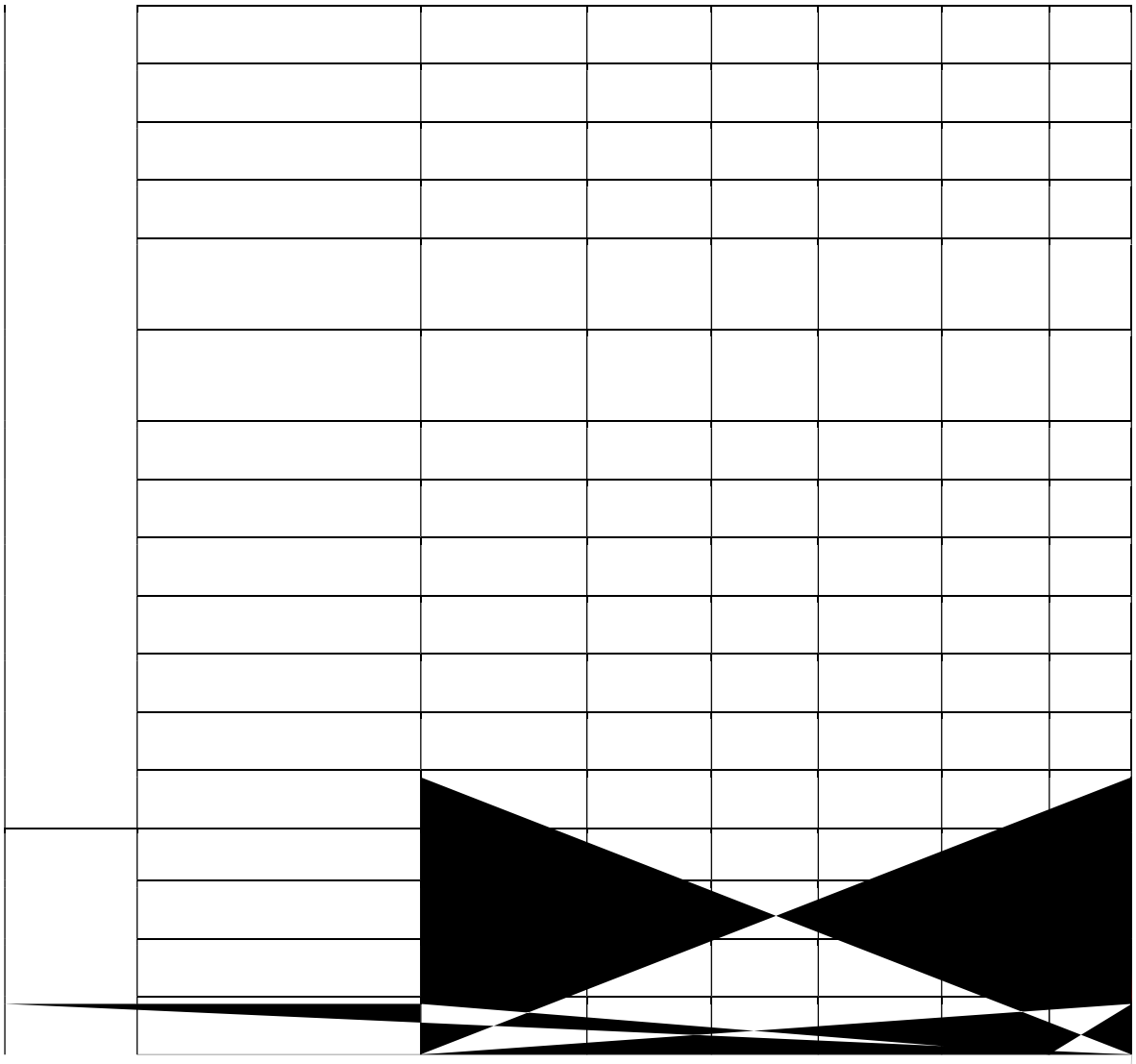
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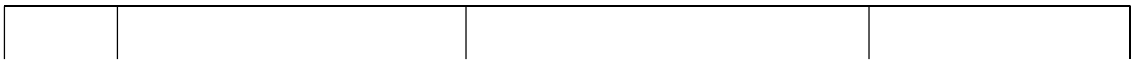




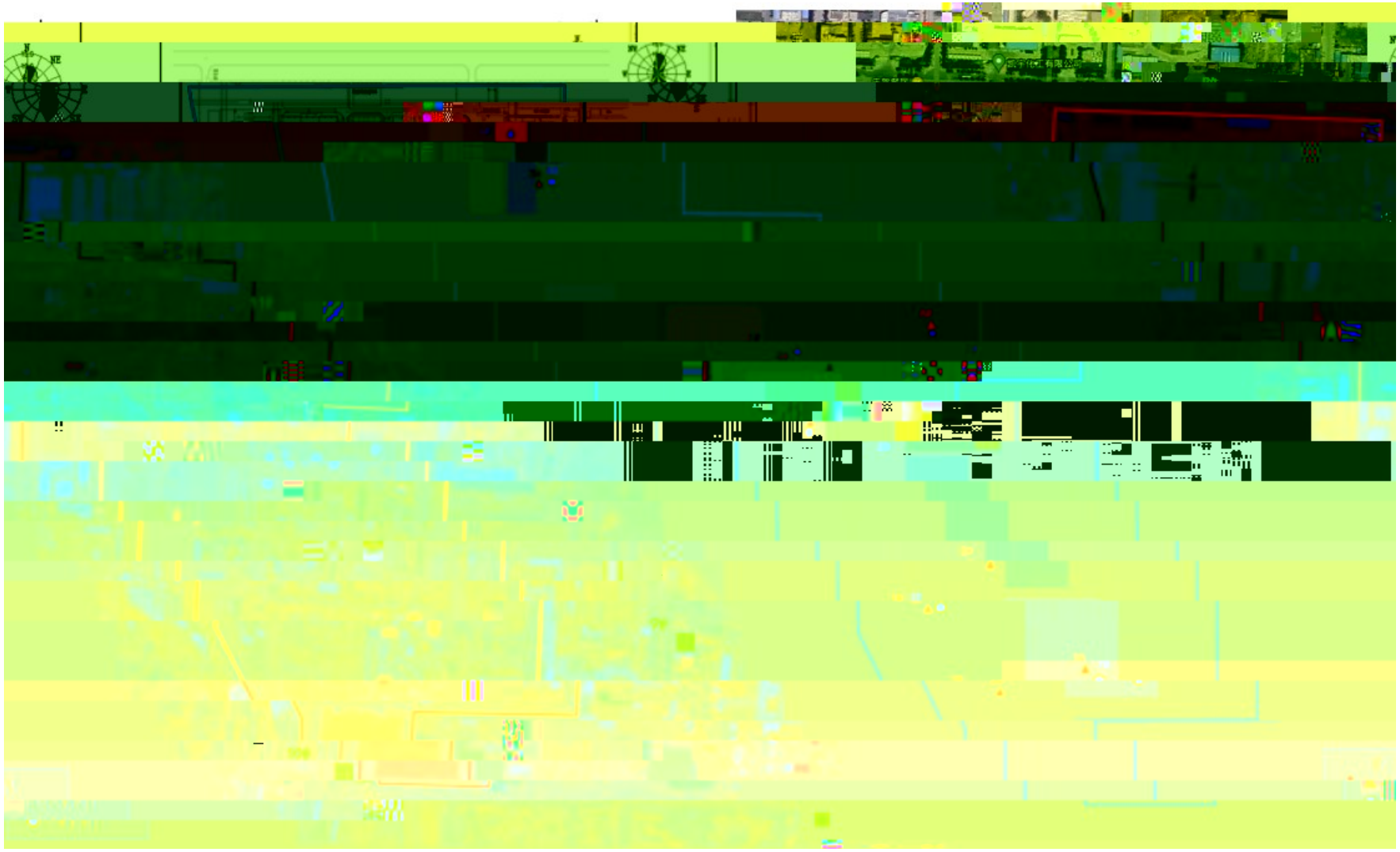


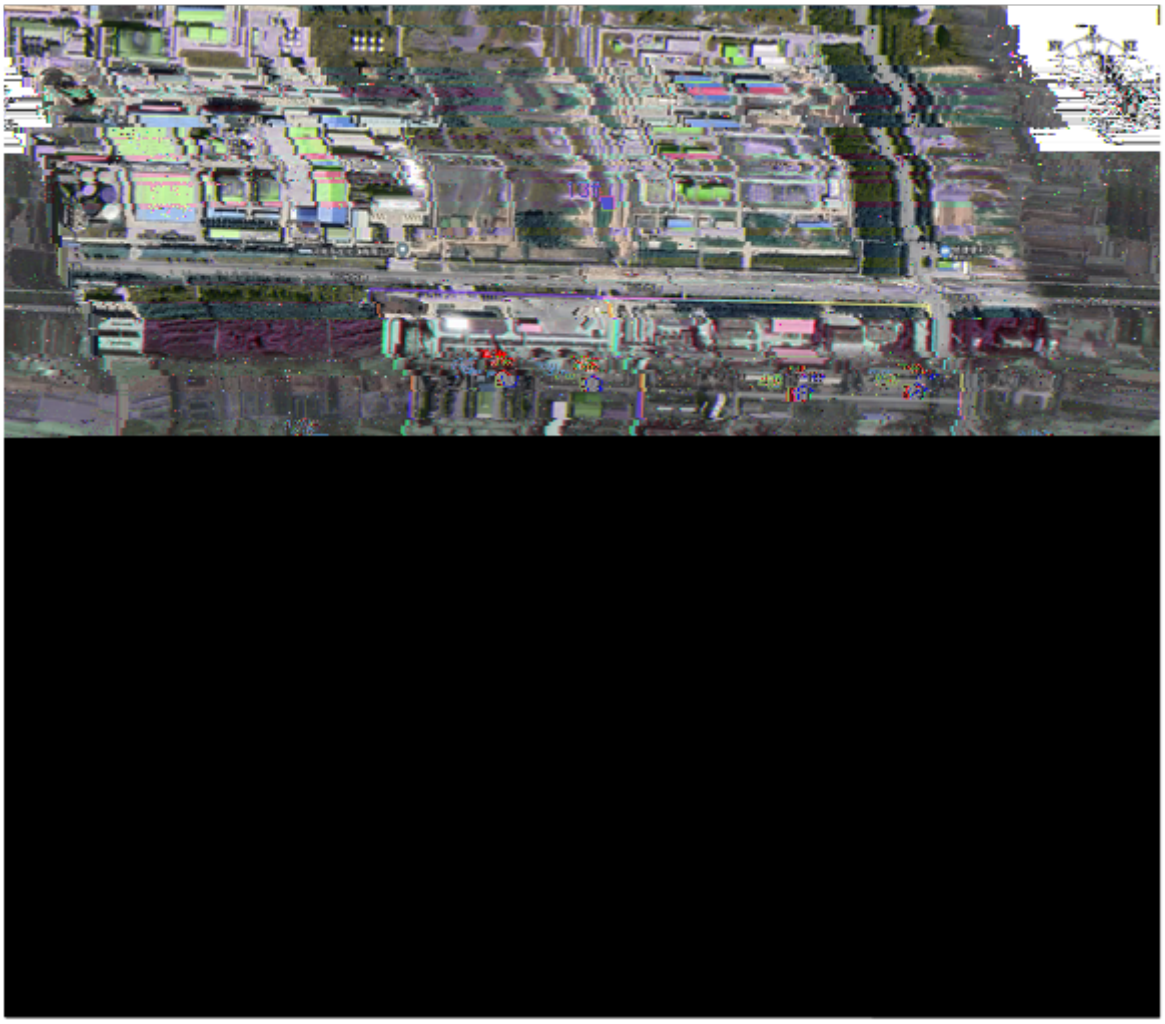




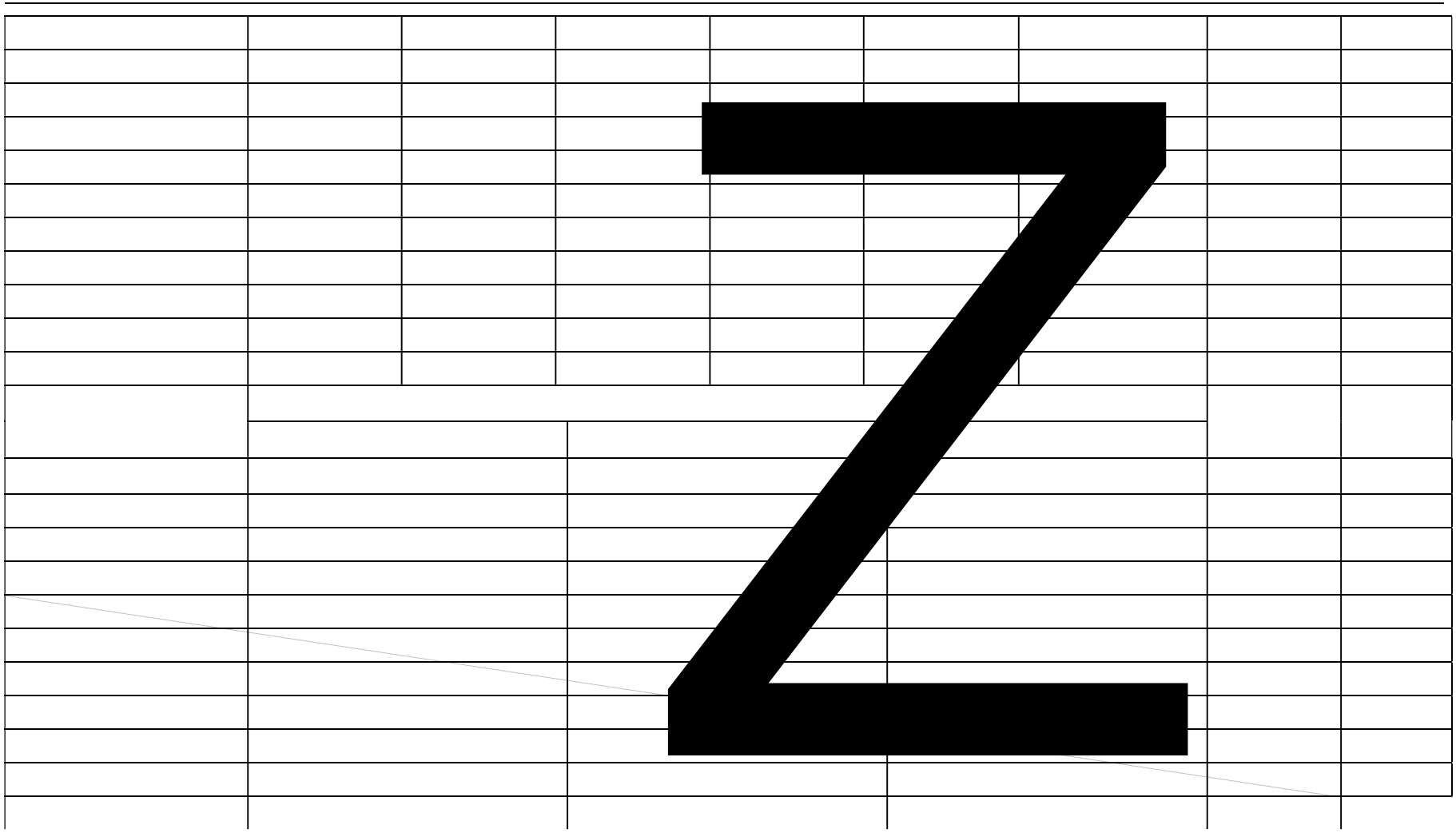


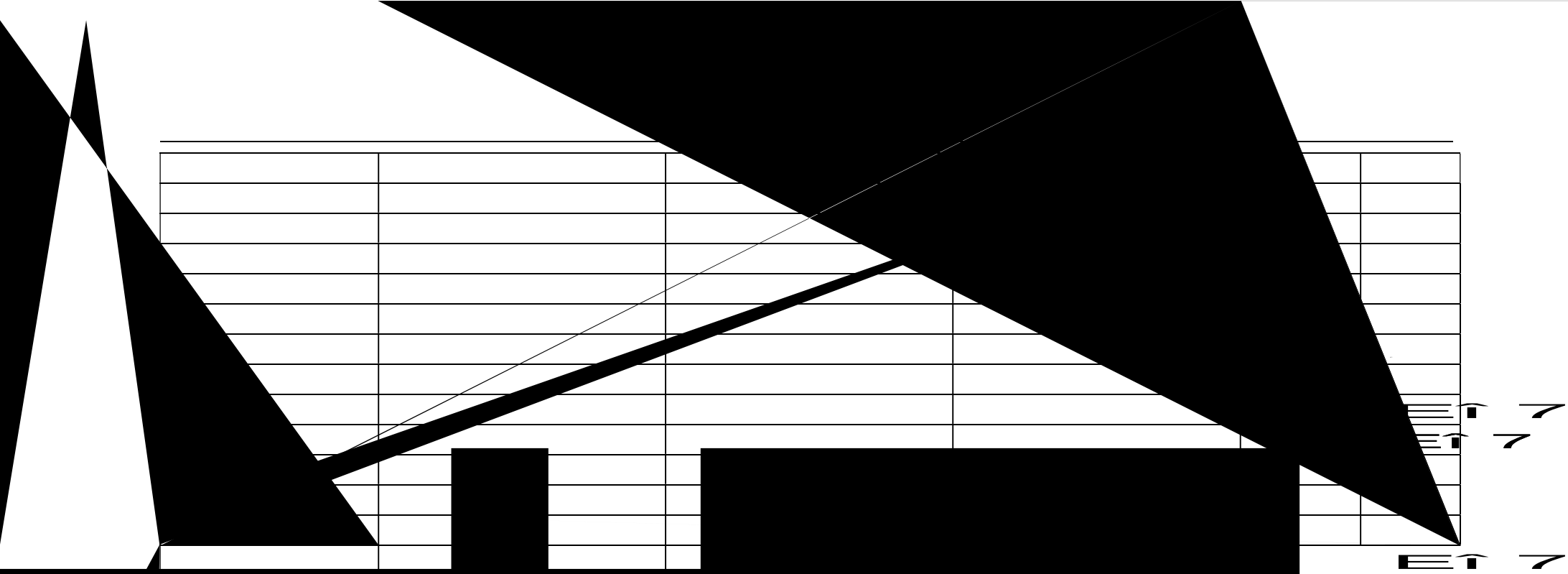


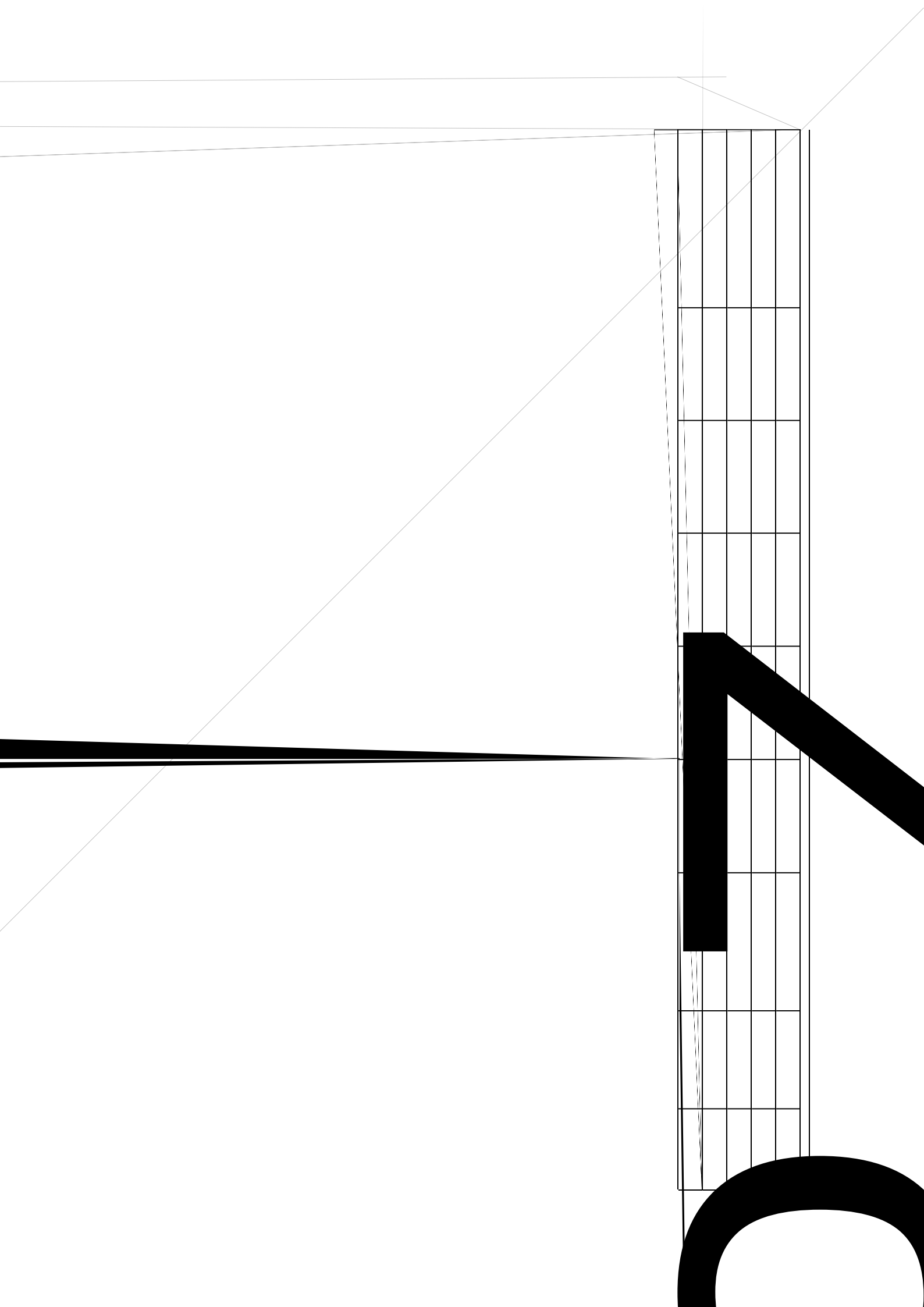


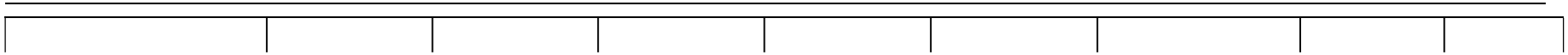


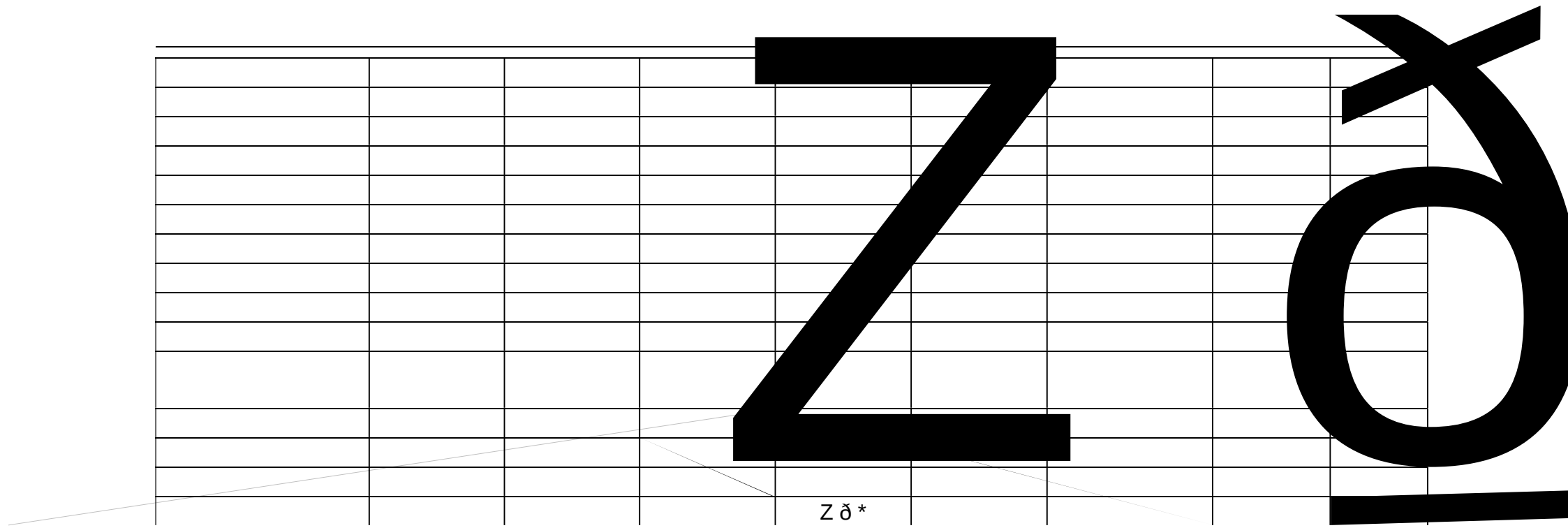


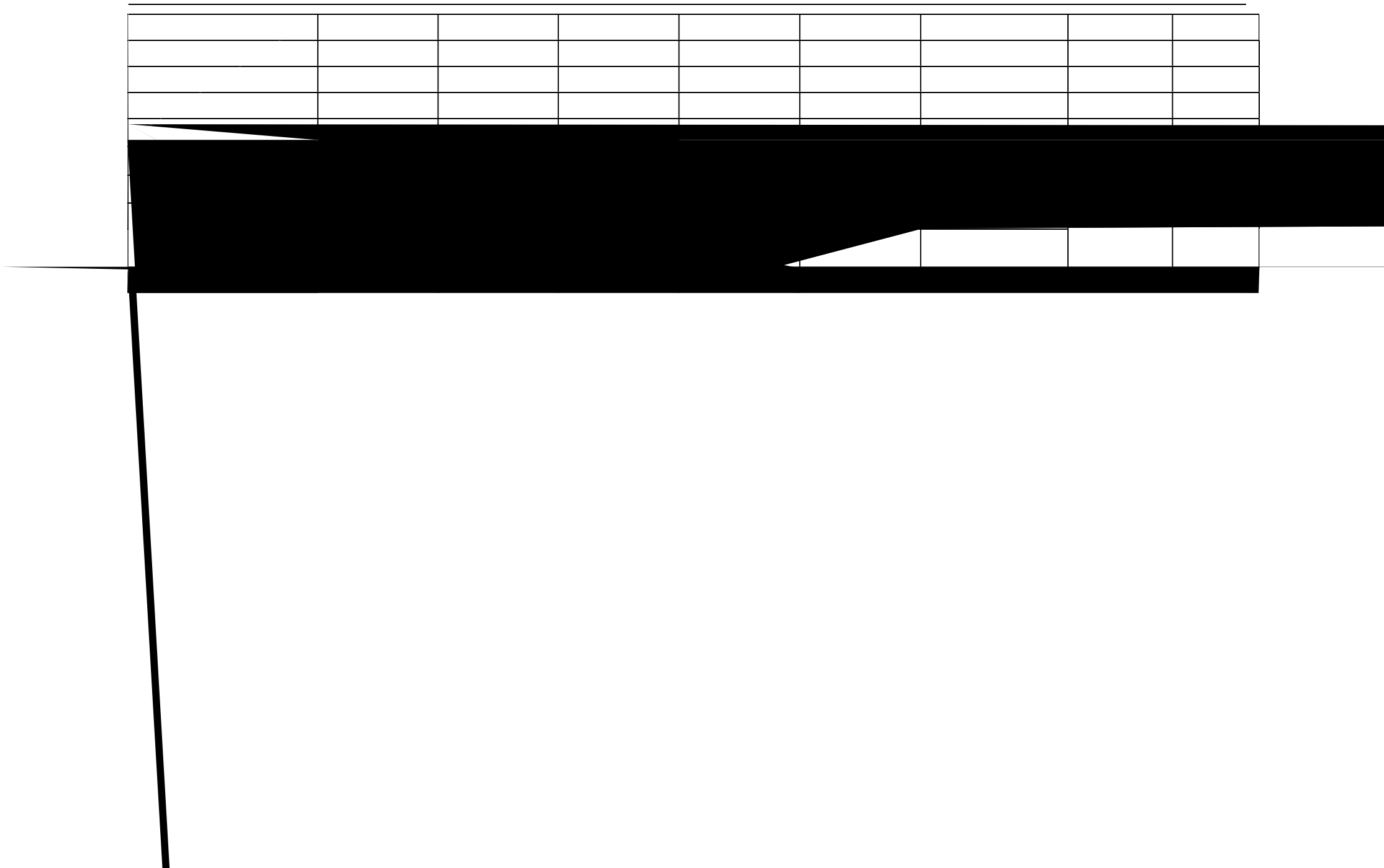


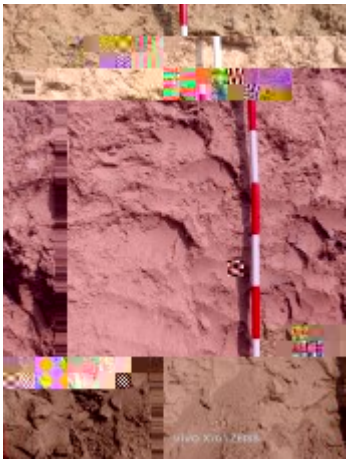







Z ð *



$$PE = 0.5 \times \left[\quad \left\{ \frac{\quad}{\sqrt{2}} \right\} \right) \qquad (Y \geq 5$$

$$PE = 0.5 \times \left[1 - \mathrm{erf}\left\{ \frac{(Y-5)}{\sqrt{2}} \right\} \right) \qquad (Y < 5)$$

$$Y = At + BT\ln\left[C^n \times te\right]$$

