



FLSmidth Conveyor-Based Dry Tailings Stacking

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Global Product Manager – Mobile Conveying



One Source

Stacking Methods



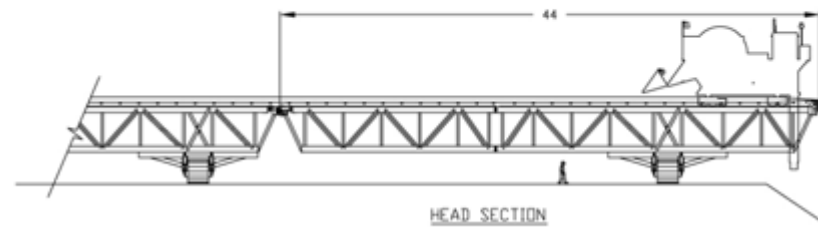
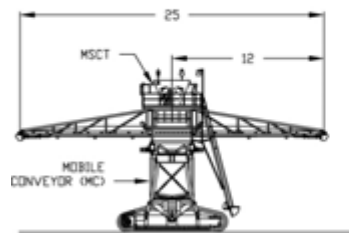
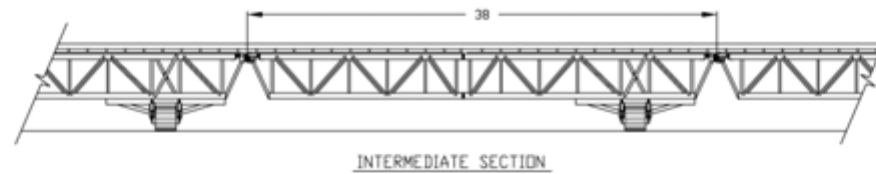
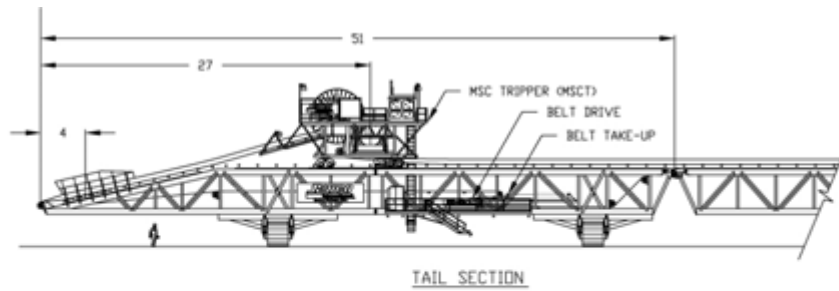
MOBILE STACKING CONVEYOR

BOOM SPREADER

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Generic Mobile Conveyor



Mobile Conveyor Features

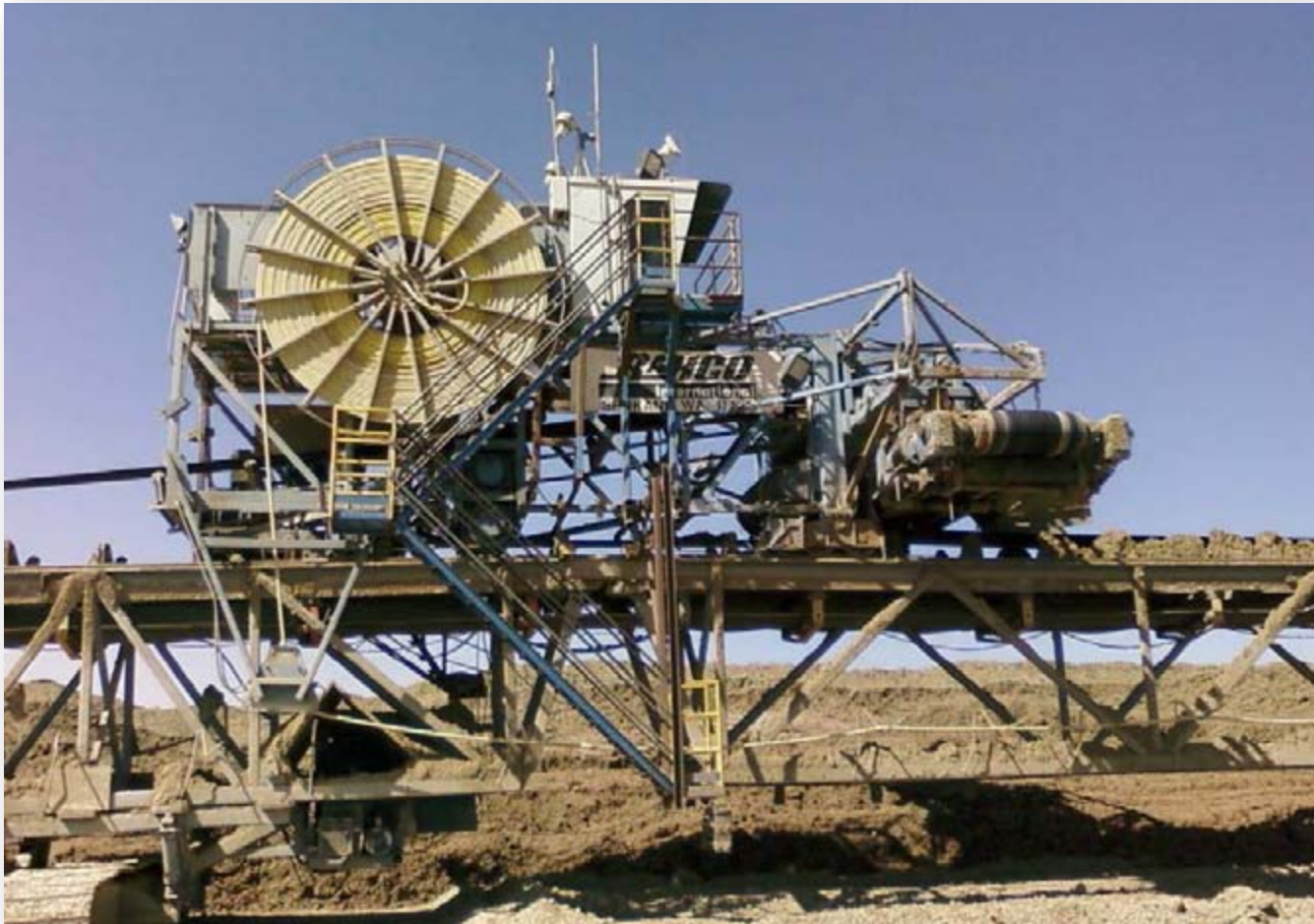
Single belt



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Mobile Conveyor Features

Tripper



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Mobile Conveyor Features

Track Leveling



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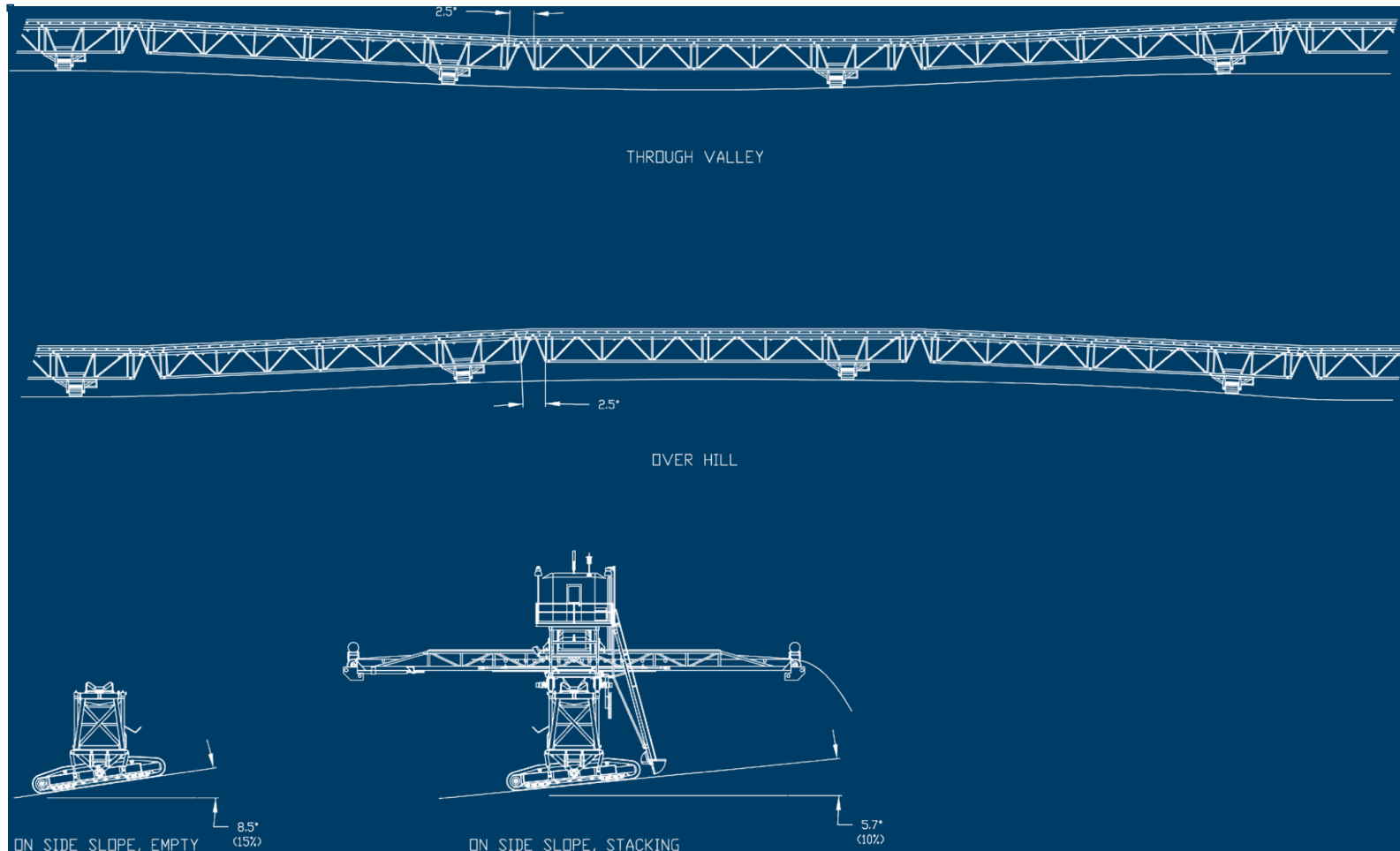
Mobile Conveyor Features

Joints Between Frames



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Operating on Irregular Terrain



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Ramp Construction



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Definition of Terms

Advance Stack



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Definition of Terms

Retreat Stack



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Equipment Examples

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Mantos de Oro La Coipa

Equipment: 1 MSC
Capacity: 1200 mtpd
Material: Dry Tailings



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Mantos de Oro La Coipa

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Mantos de Oro La Coipa

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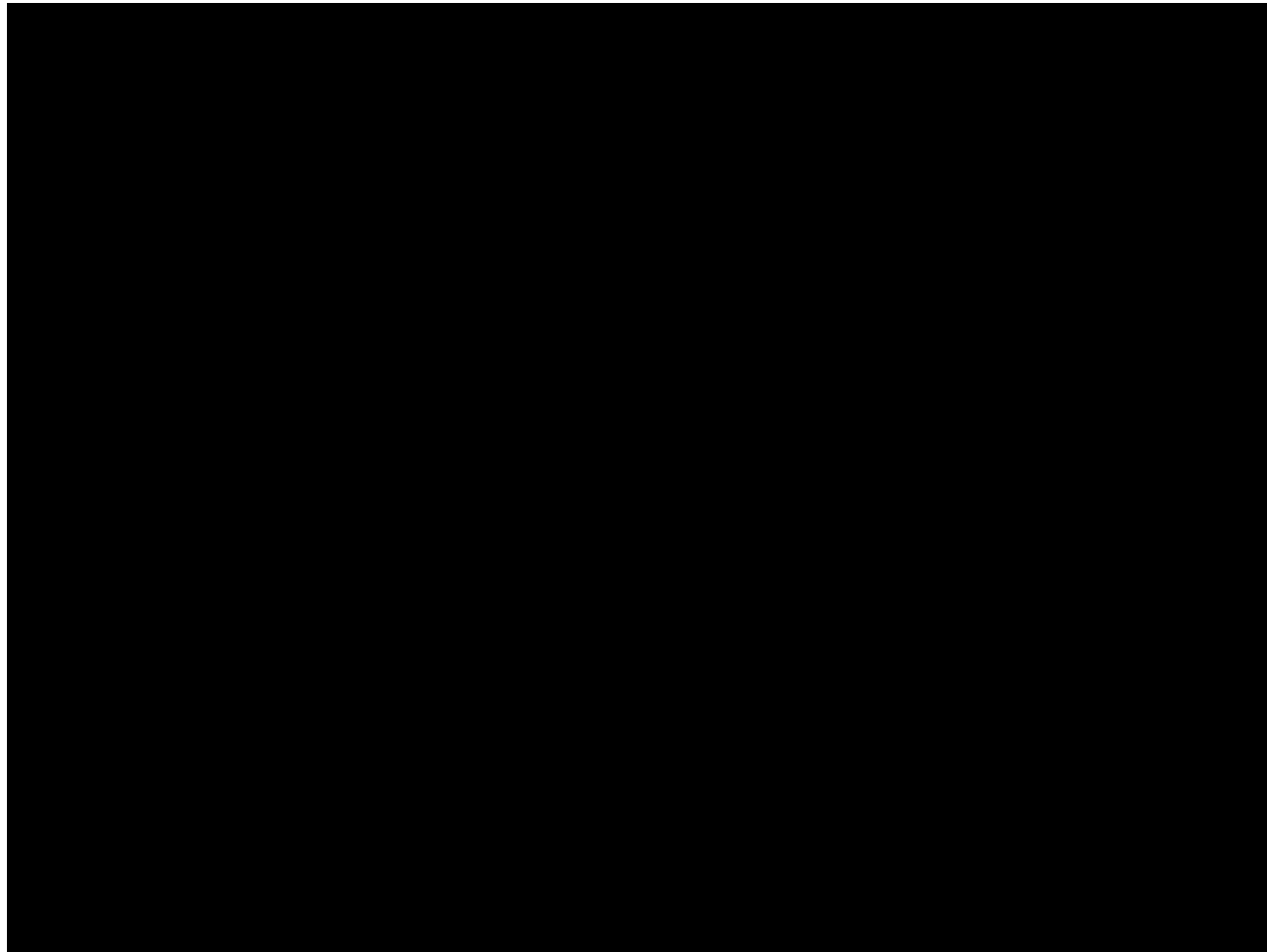


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Mobile Conveyor-Based Stacking Process

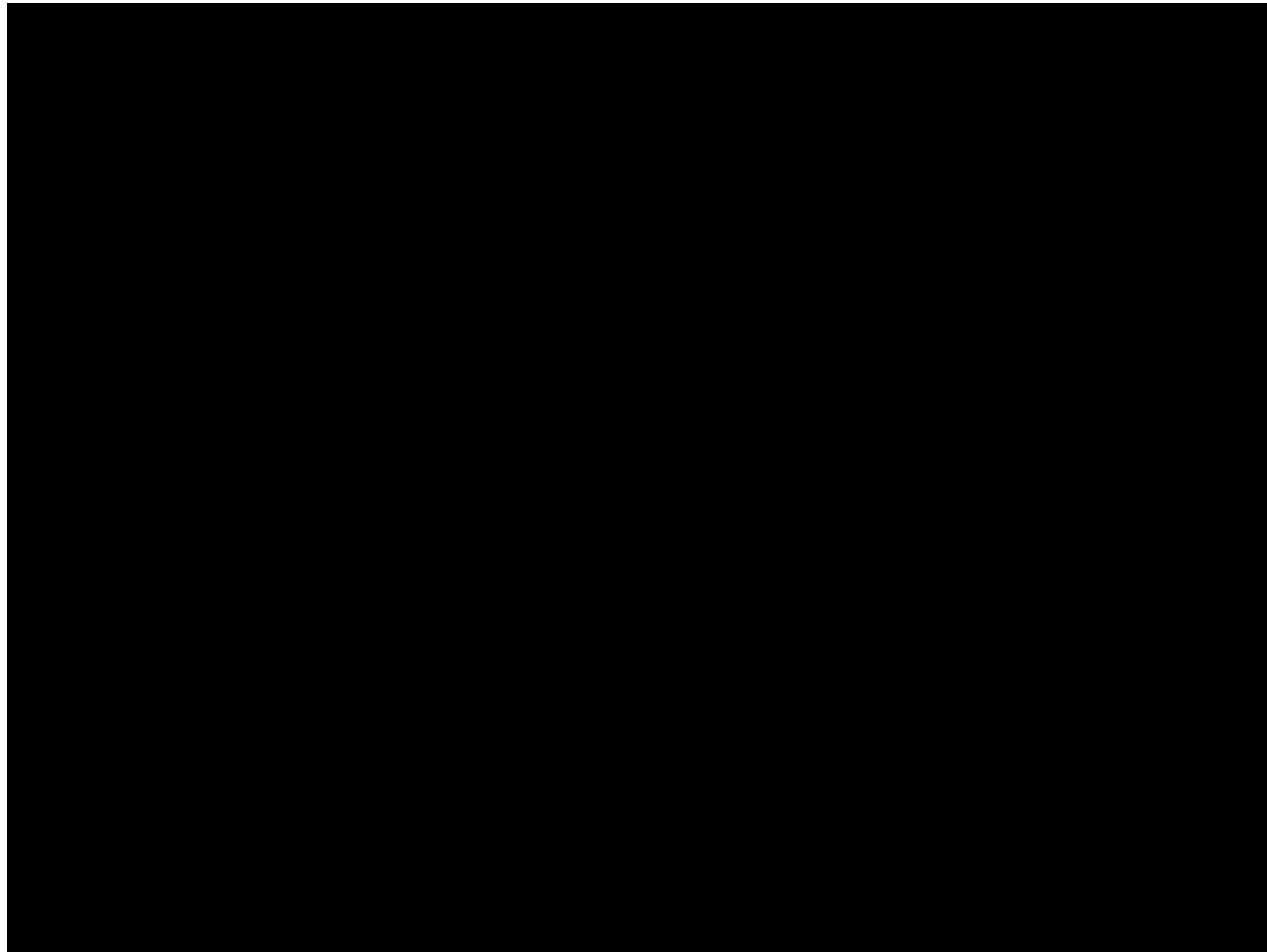
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Begin Stacking



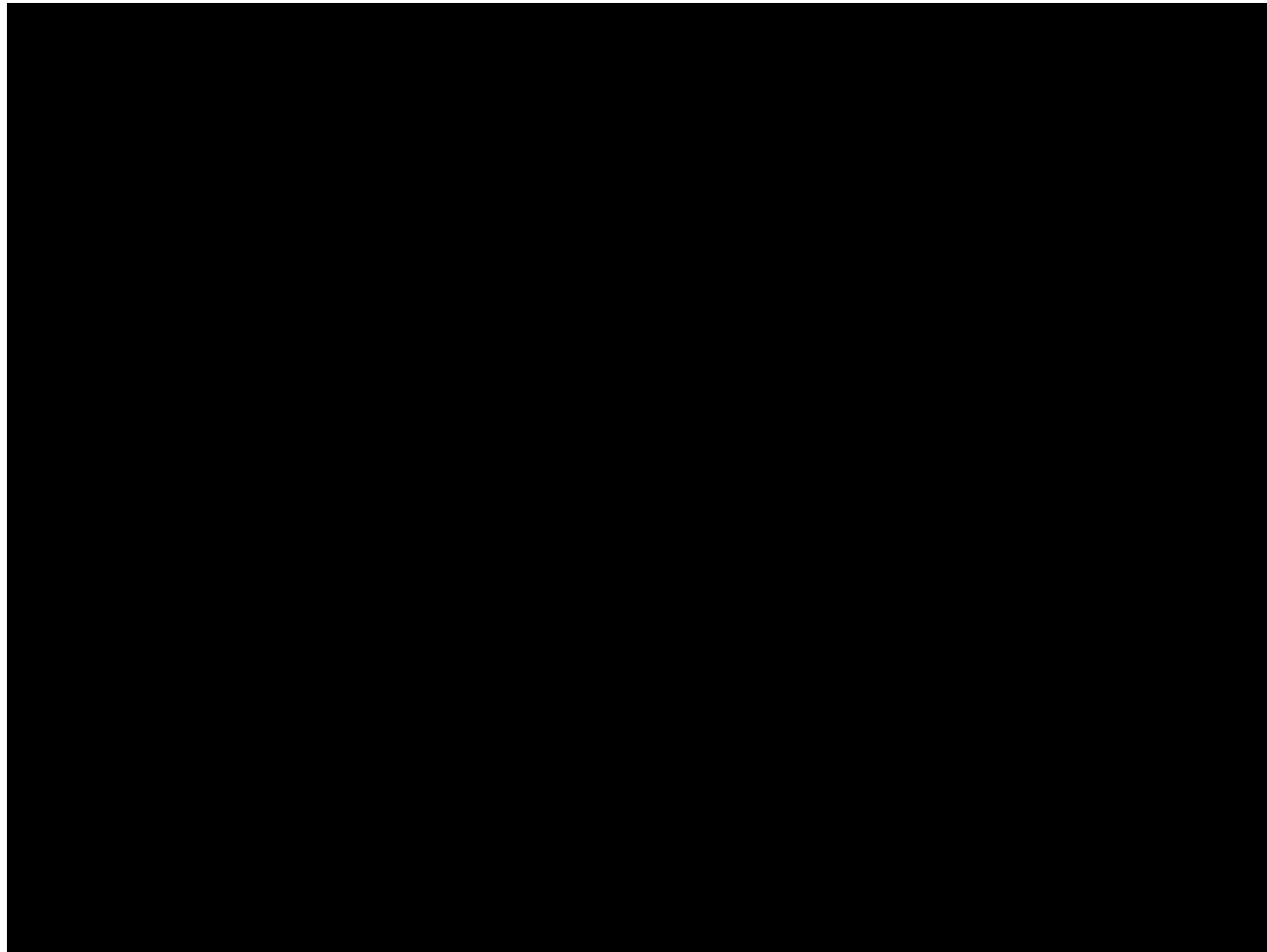
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Advance Stacking Arcs



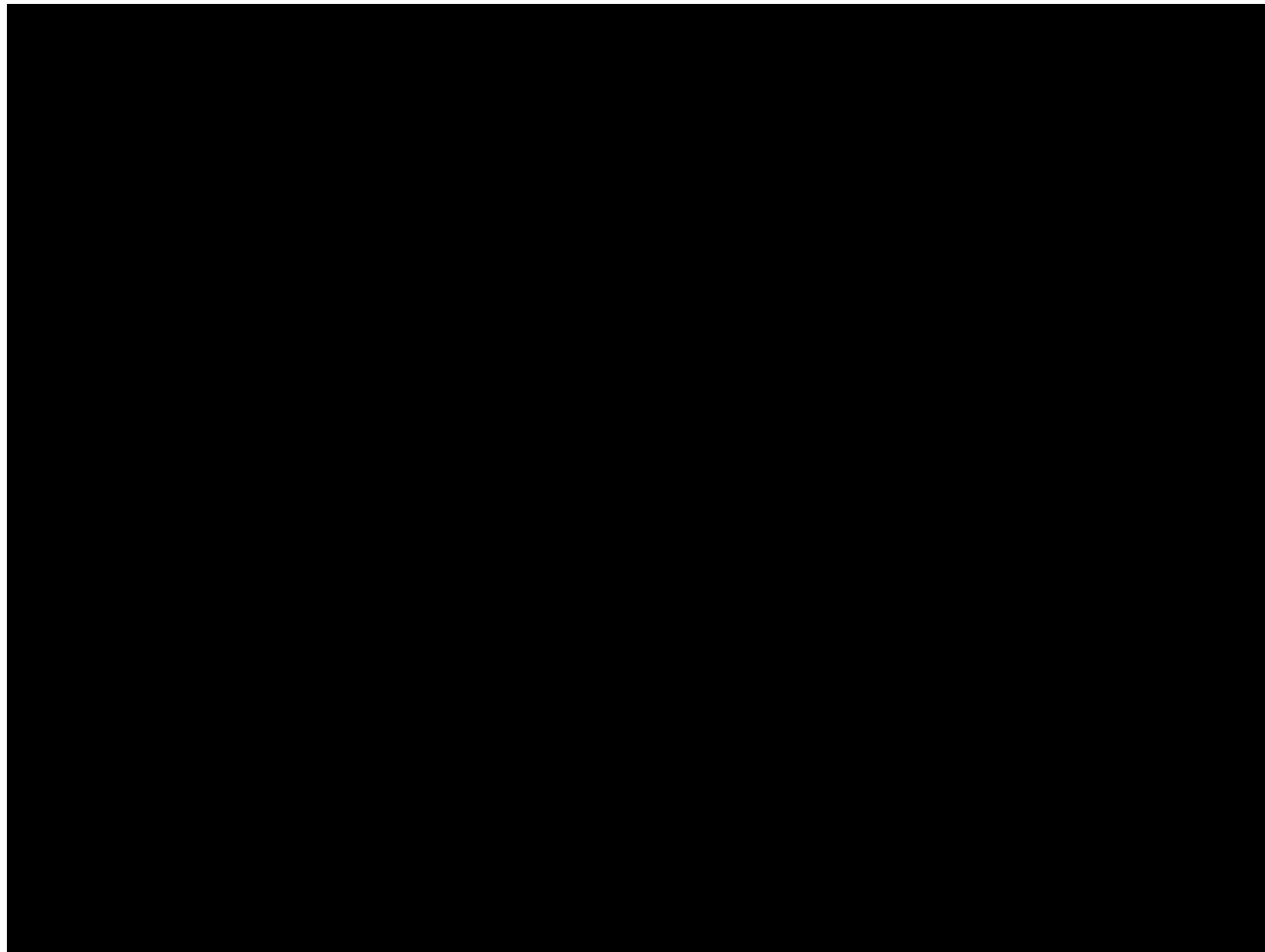
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Lateral and Arc Stacking



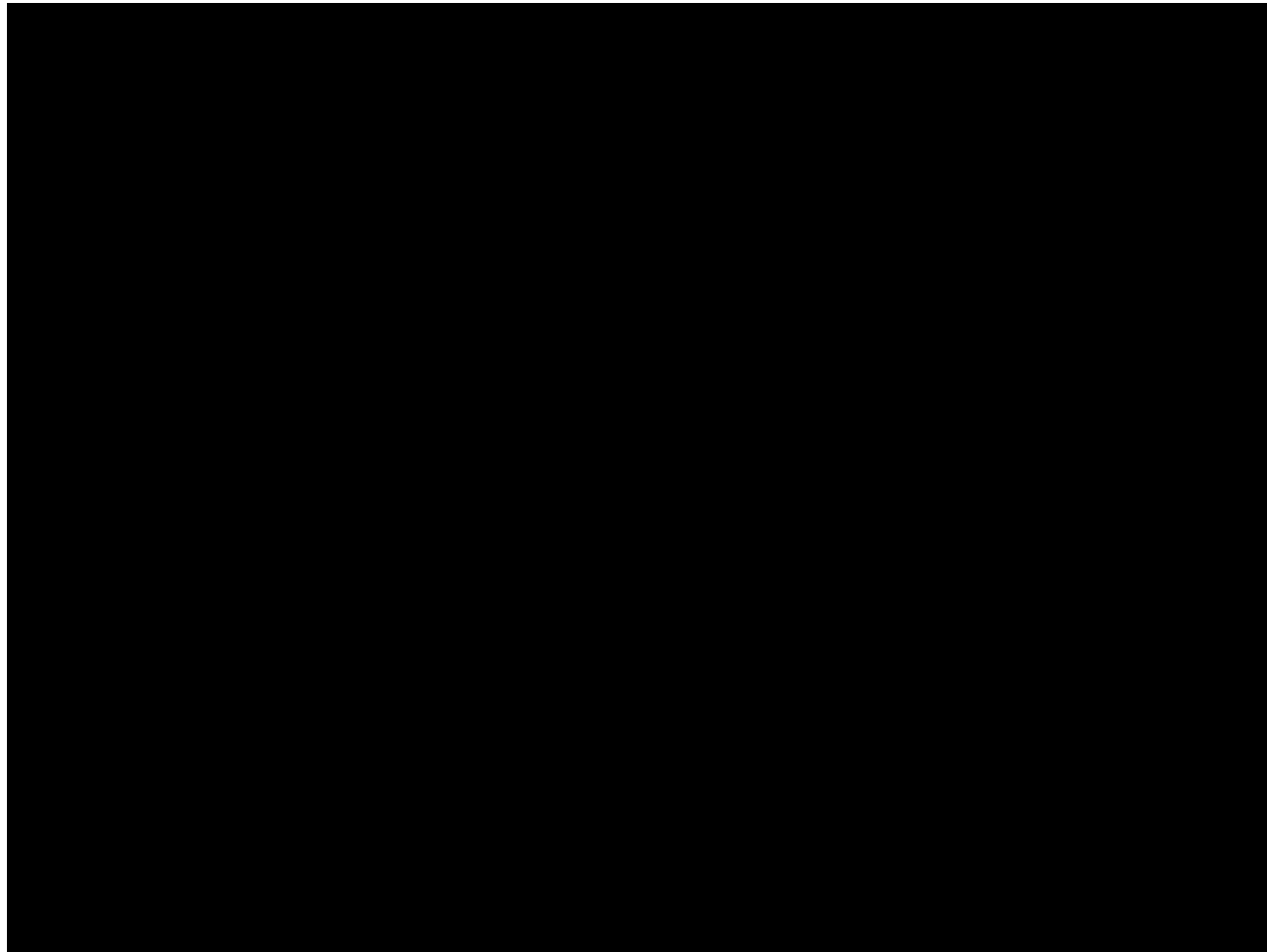
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Continue Lateral and Arc Stacking



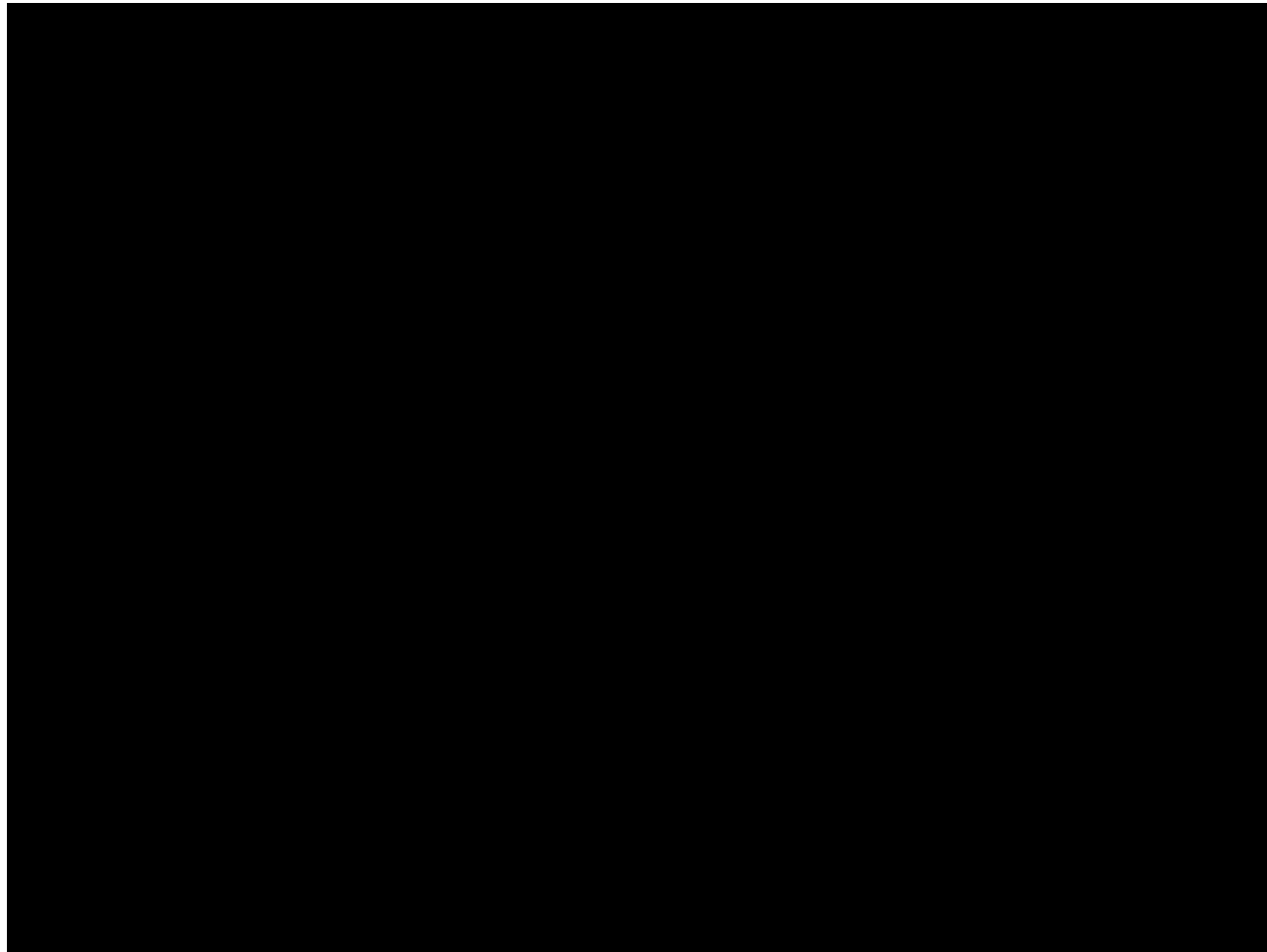
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Reposition and Move Fixed Conveyor



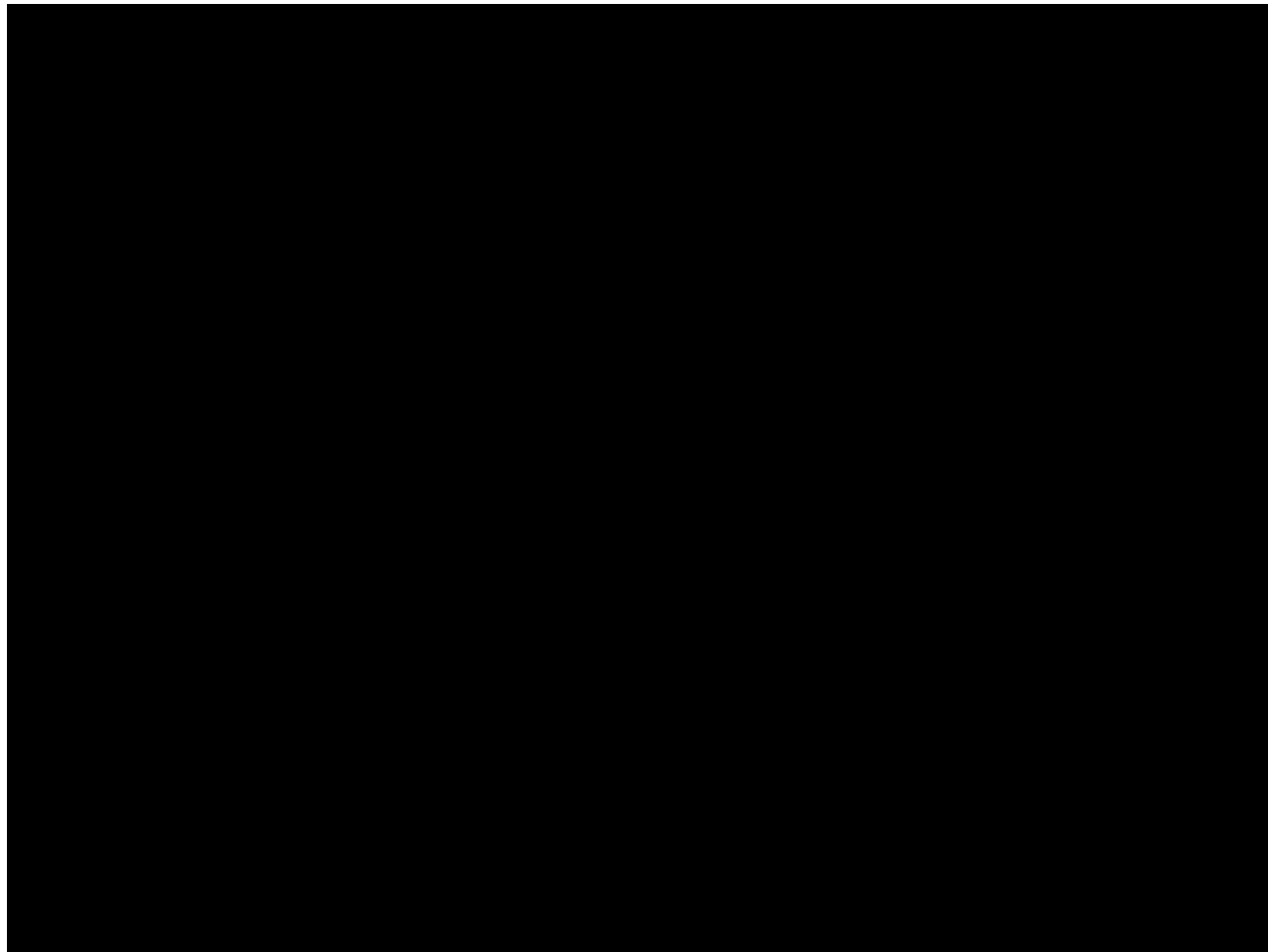
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Lateral Stack Second Pass



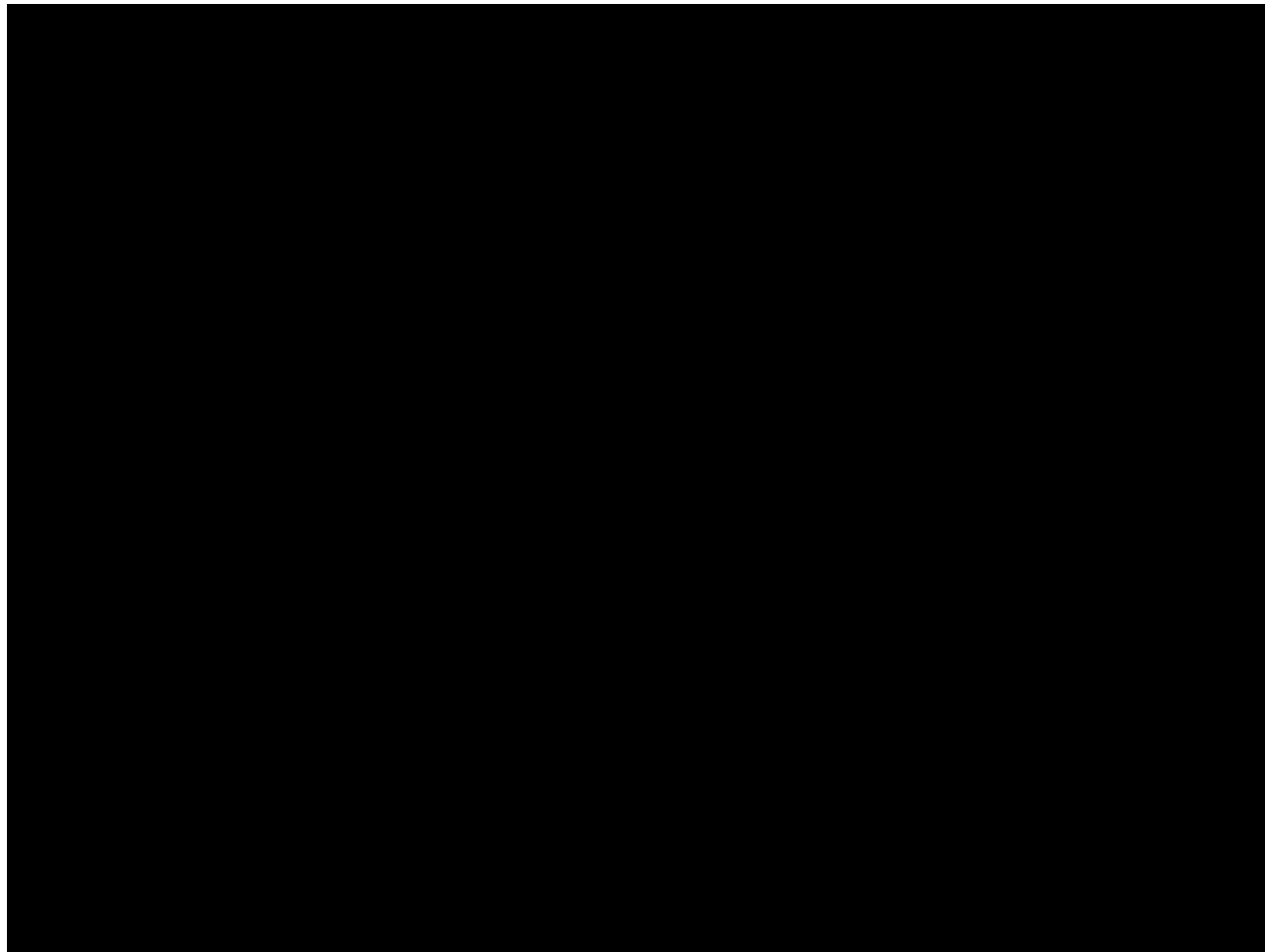
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Retreat Stack for Second Lift



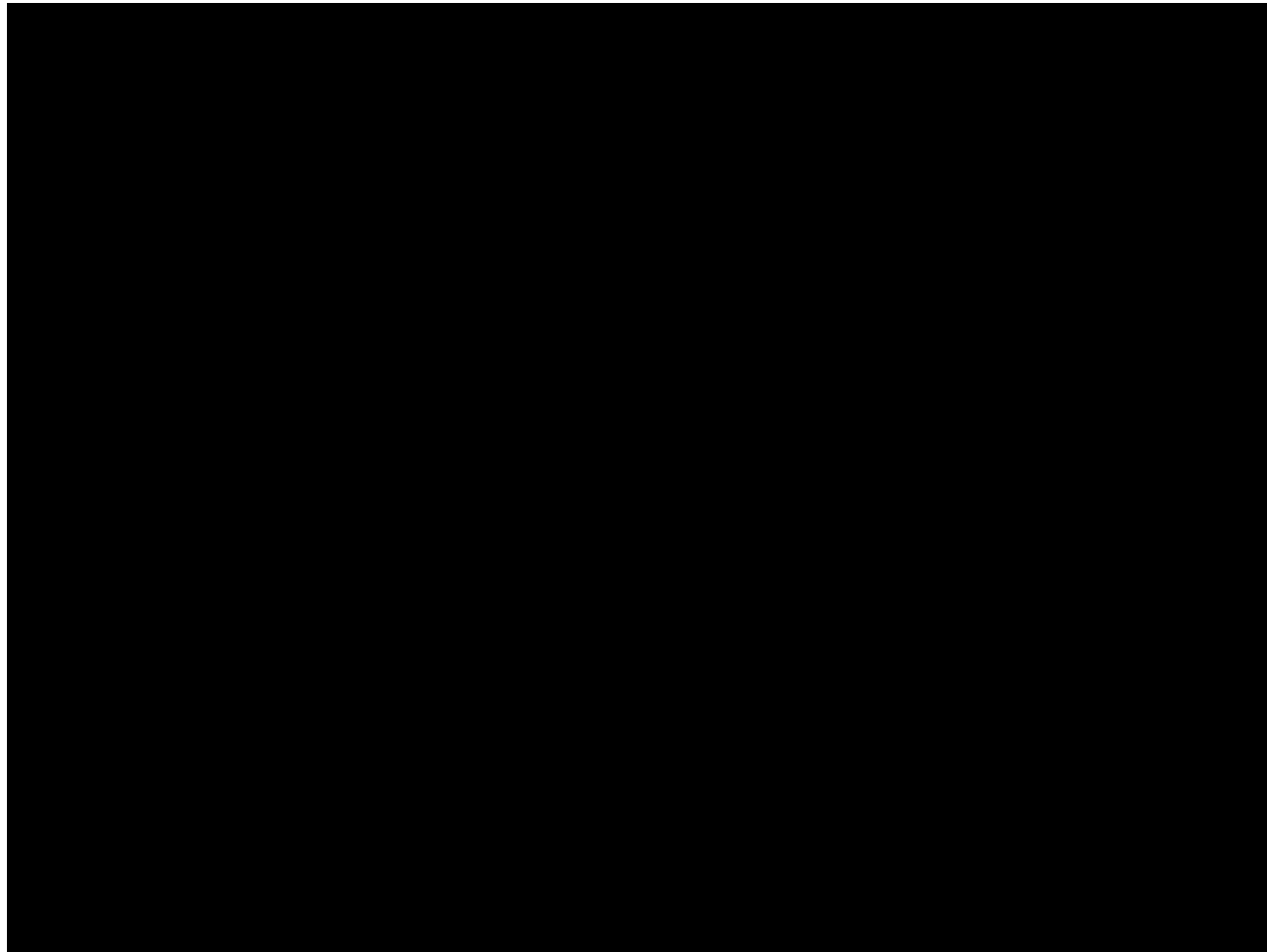
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Construction Work for Second Lift



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Reposition and Begin Second Lift

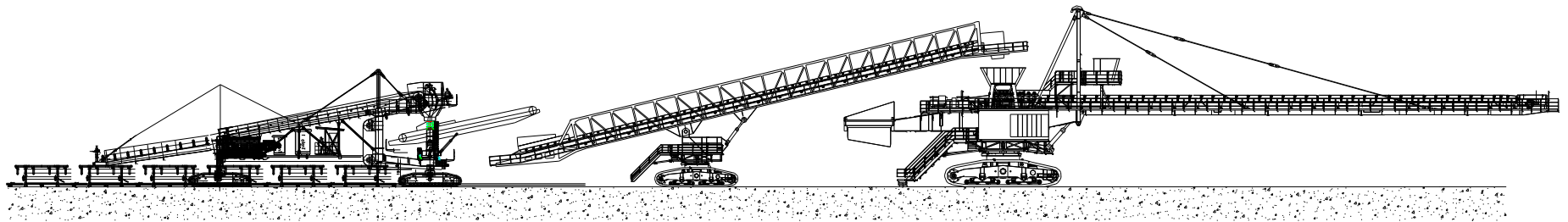


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Considerations:

- Still need some equipment support
- Lateral and arc movement possible
- Virtually mine and stack
- Alternate starting possible

Spreader with Beltwagon



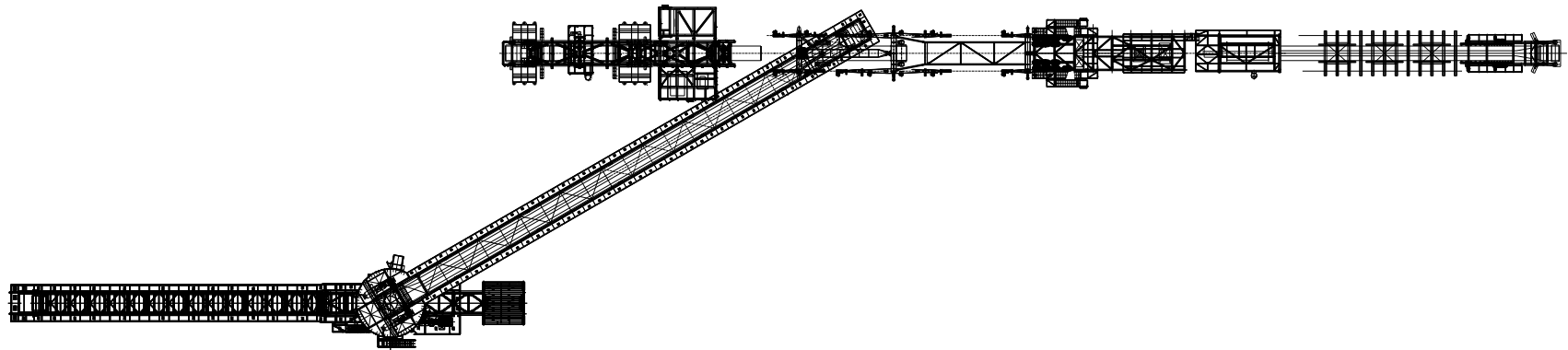
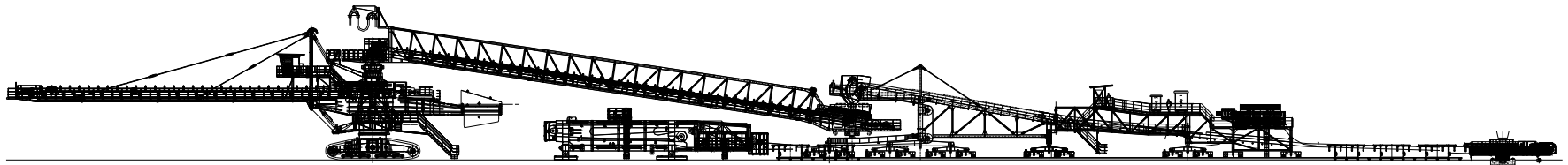
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Boom Spreader



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Spreader with Link Conveyor



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Spreader-Based Stacking Process

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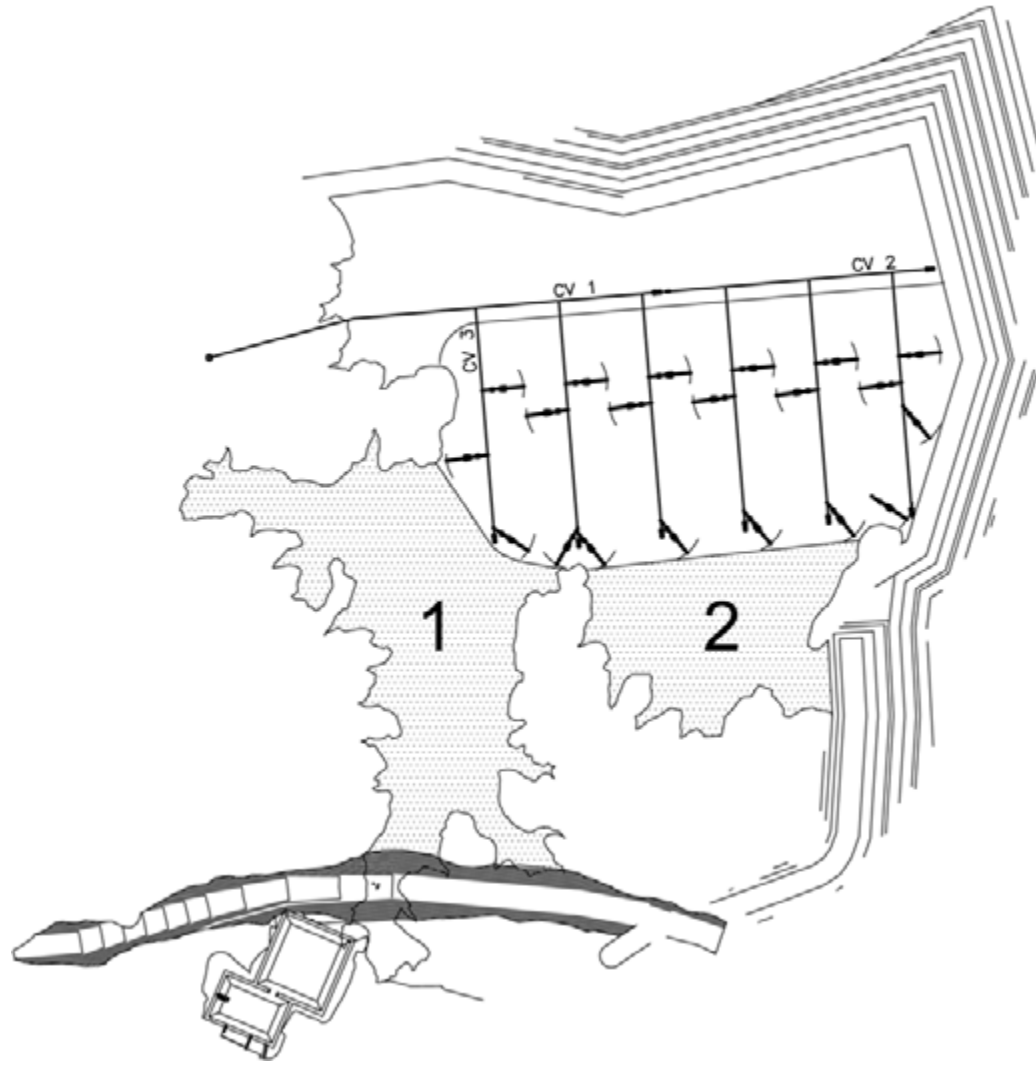
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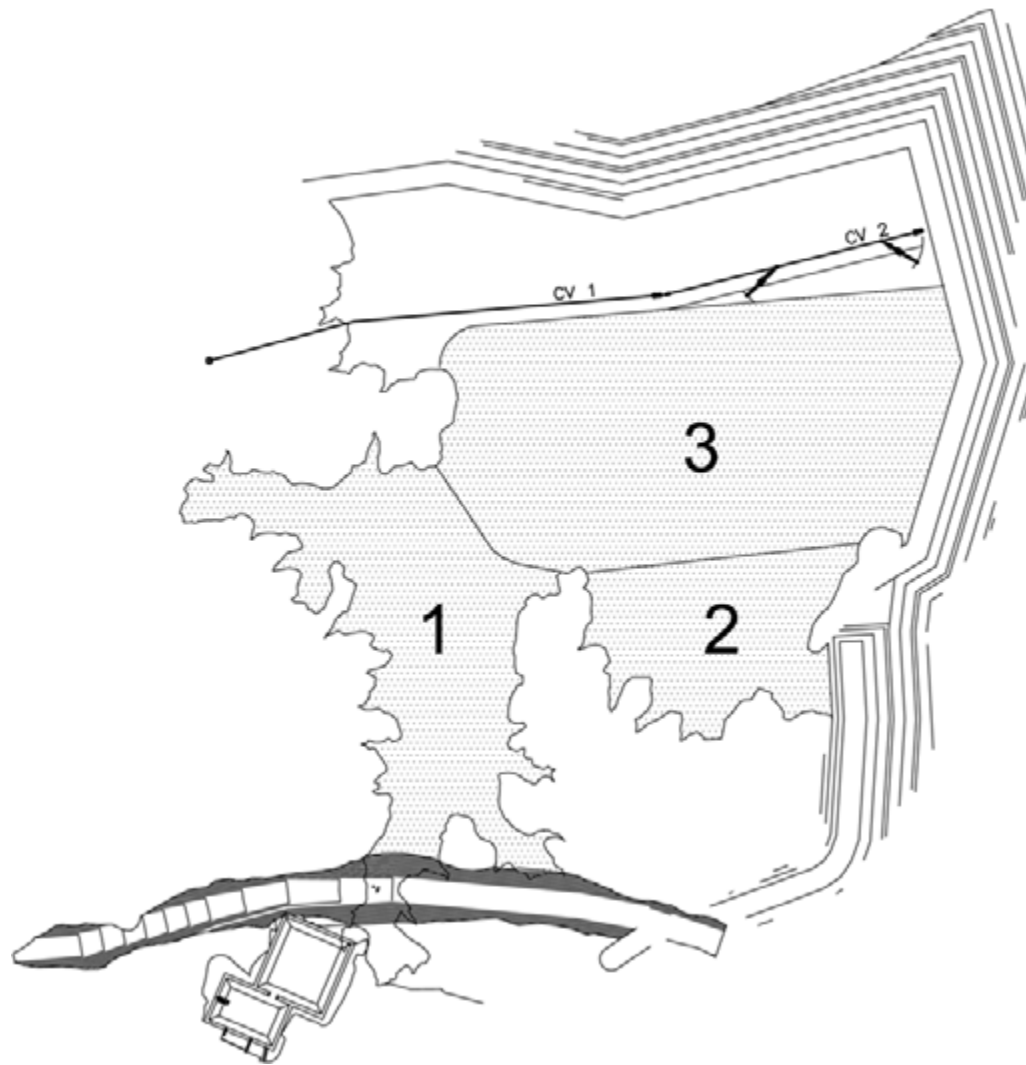


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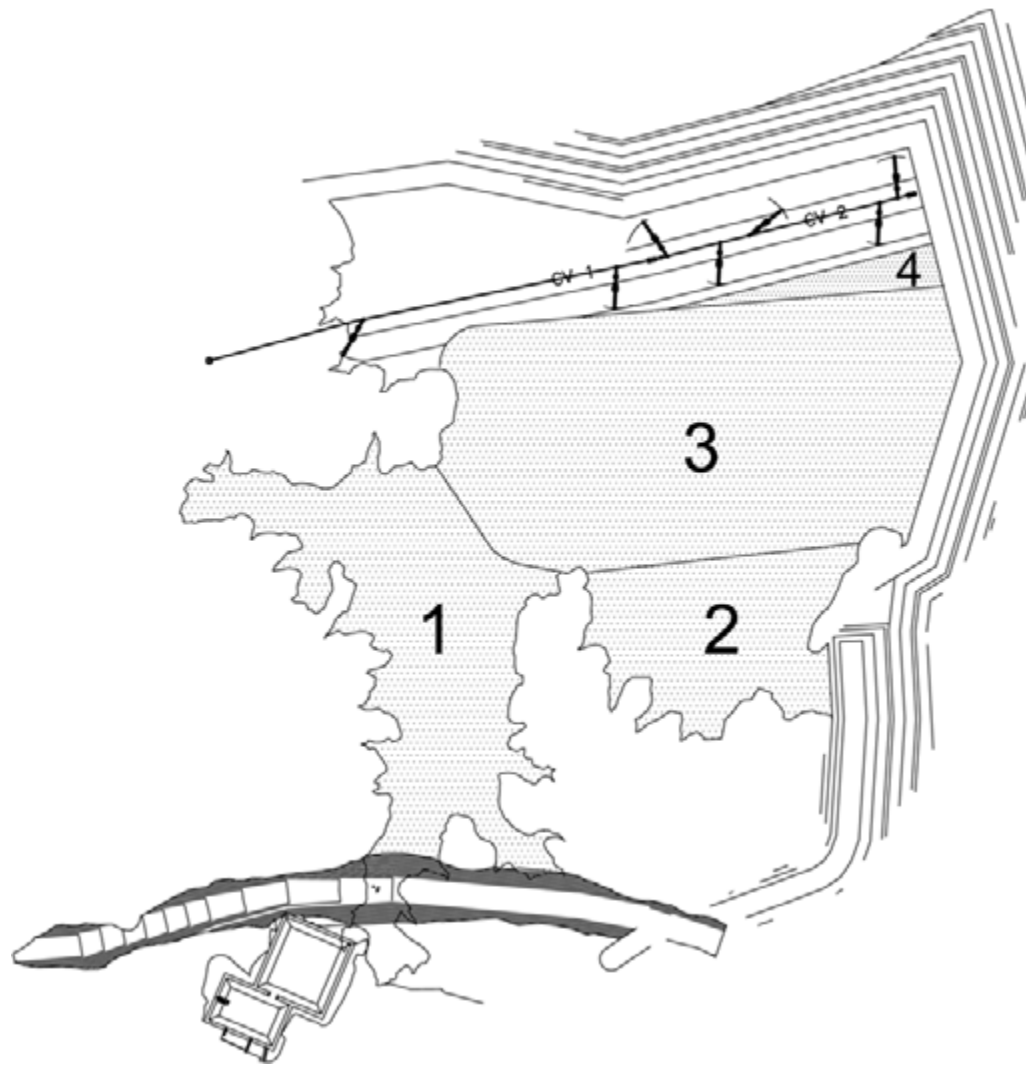
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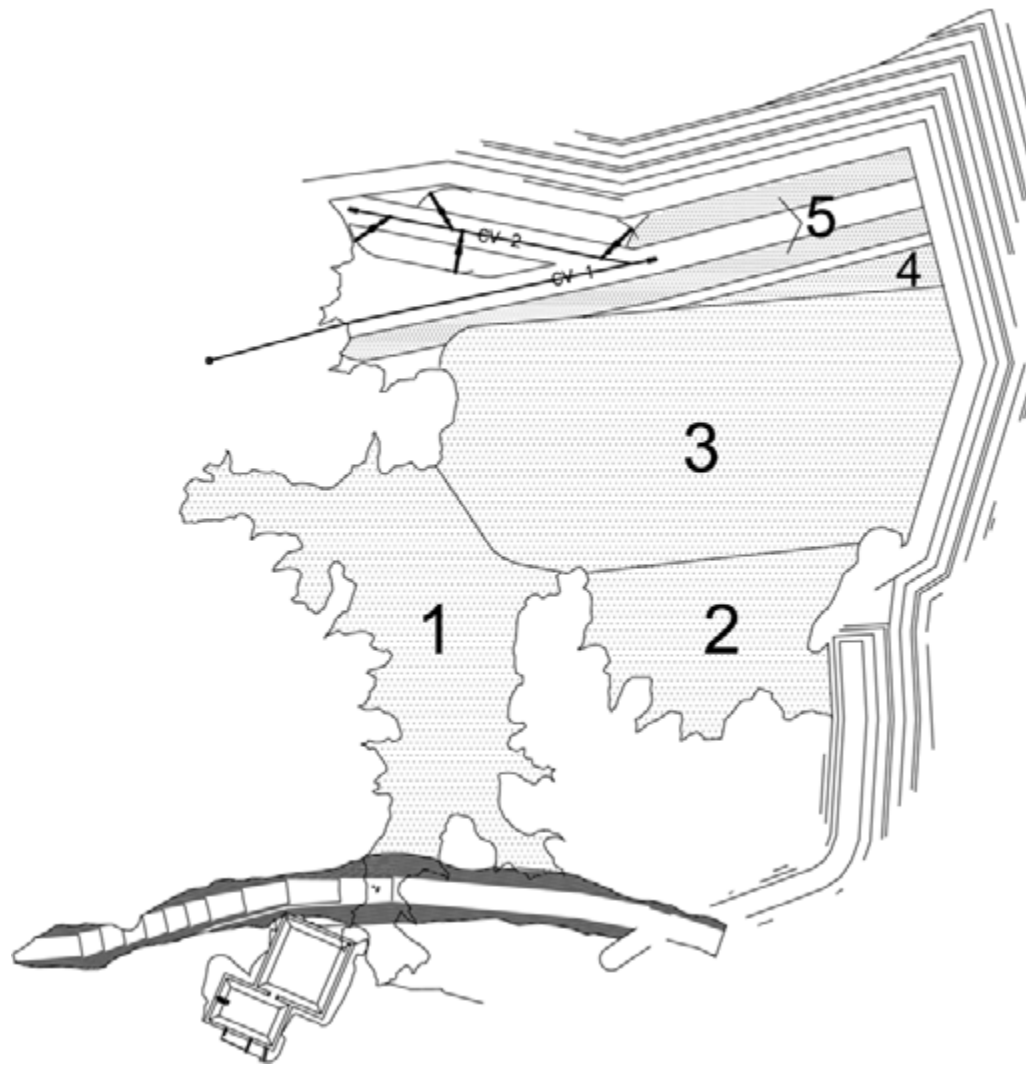


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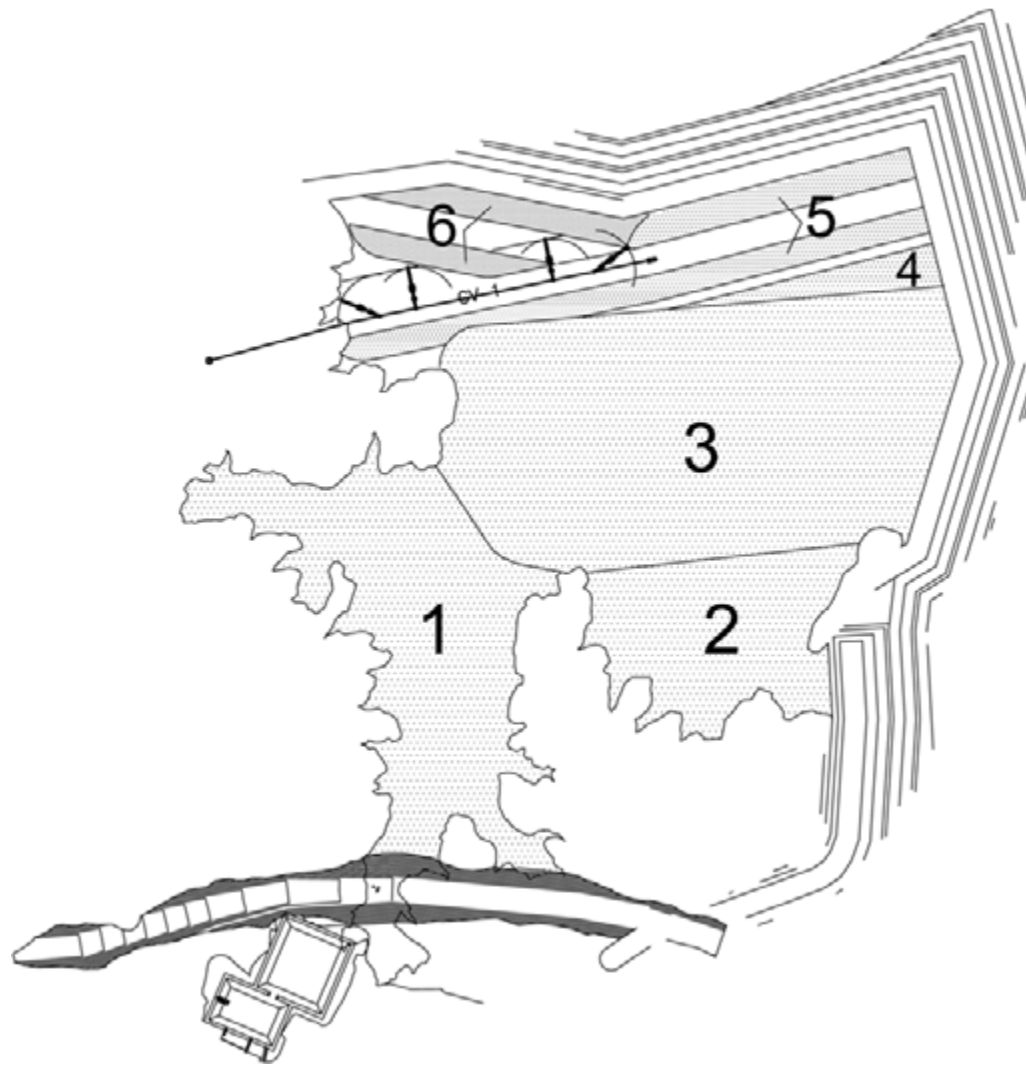
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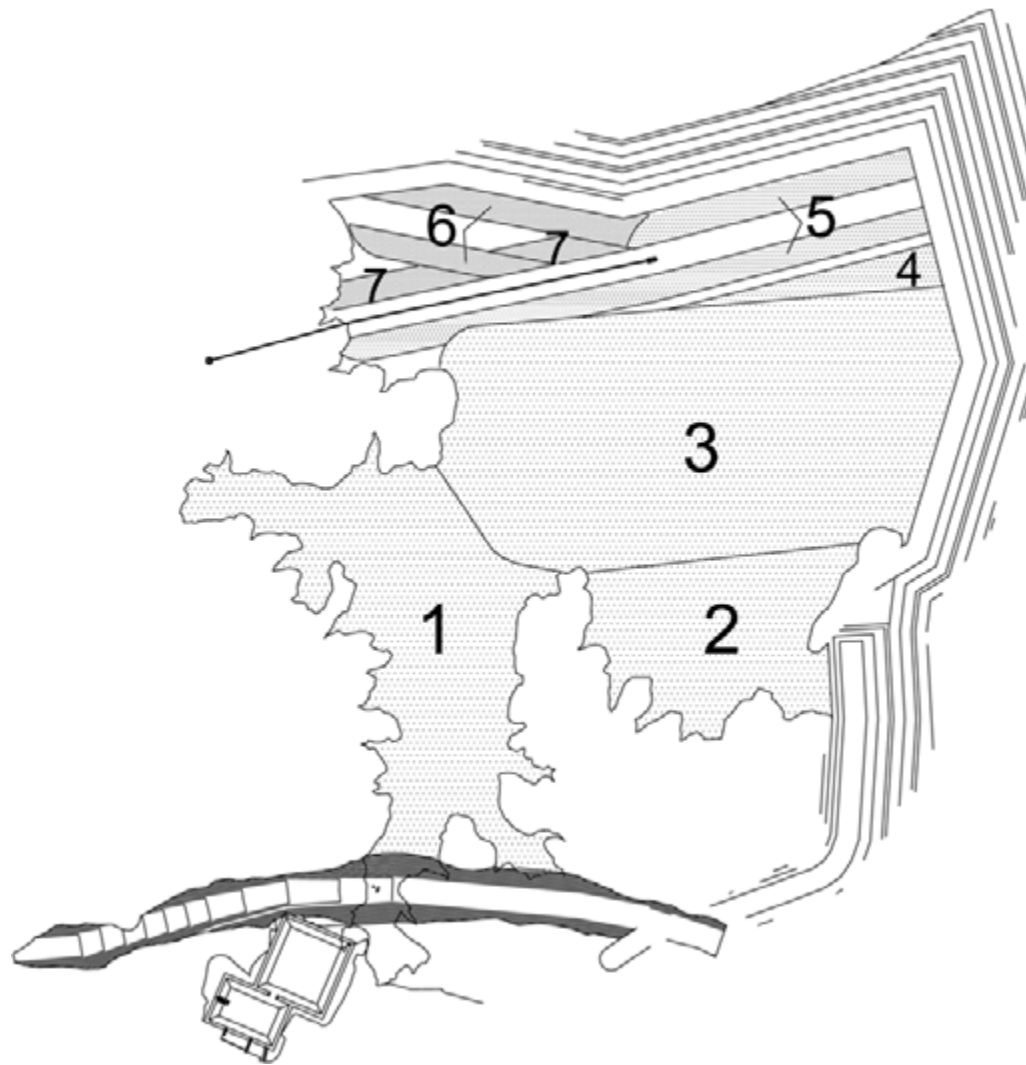
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Considerations:

- Boom spreader allows buttress of pile
- Tends to stay on one place longer
- Might need track support
- Pre-planning is important

Conclusion:

- Both systems offer low cost per tonne-km
- Both systems offer lower GBP on soft material
- Both systems need support equipment
- Pre-planning is important

FLSmidth Minerals



One Source