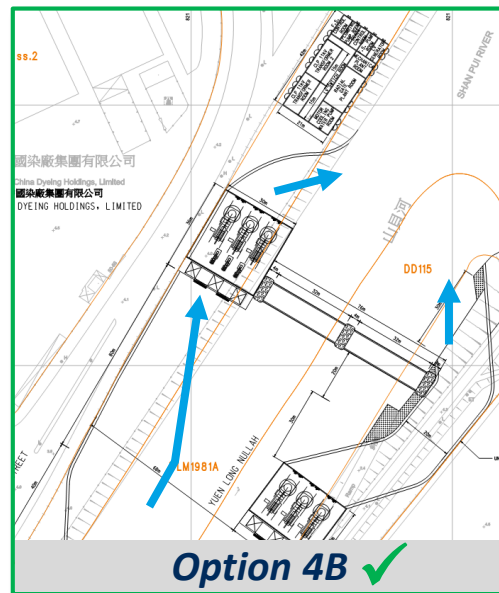
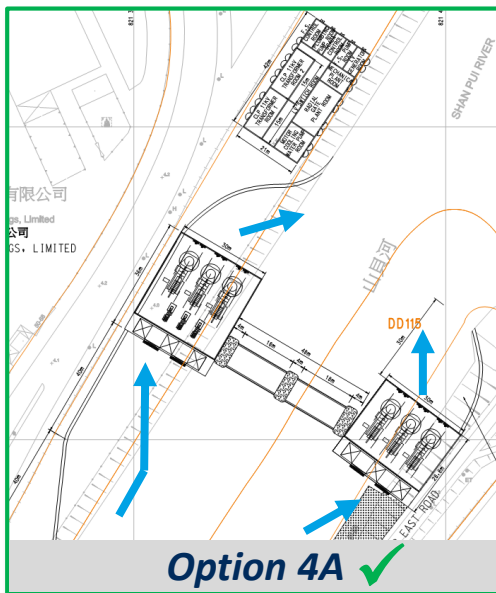
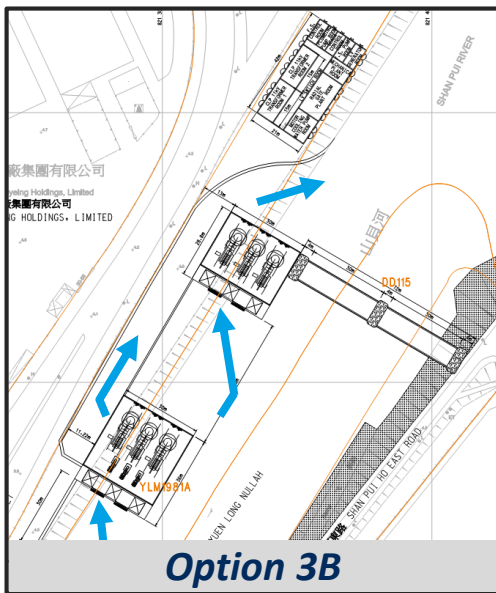
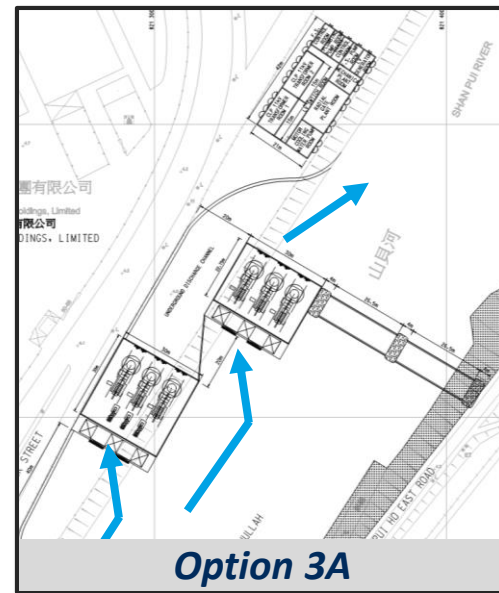
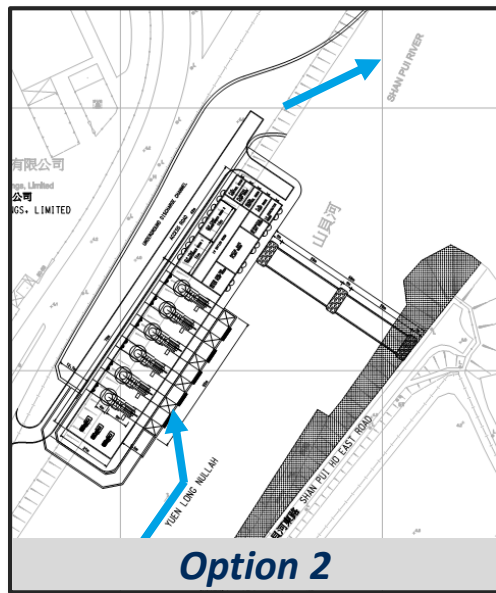
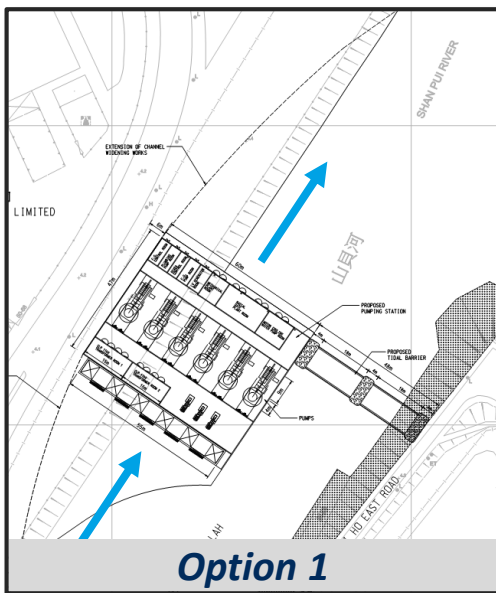


Preliminary Layout Options considered for YLBS



Design Criteria: Benefits of Barrage Layout Option 4A/4B

Design Criteria	Description
Hydraulics & Flood Resilience	<ul style="list-style-type: none">• Retains sufficient width in YLN for gravity flow without pumps• Optimal pump intake conditions (reduced flow rotation)• Minimal increase in downstream water levels
Discharge Performance	<ul style="list-style-type: none">• Even distribution of discharged flow among both banks• Suited for submerged outlet for reduced surface turbulence• Optimal layout for implementation of energy dissipators
Erosion & Sedimentation	<ul style="list-style-type: none">• Distributed energy concentration among both banks• Discharge outlets can be readily enhanced for erosion control• Sedimentation confined to barrage forebay for better O&M
Construction Aspects	<ul style="list-style-type: none">• Improved accessibility and safety for pumping station• Increased flexibility for construction staging• Enables phased commissioning & flood protection for YL town
Ecological & Visual Aspects	<ul style="list-style-type: none">• Smaller structures for more effective visual mitigation• Reduced height and impact to avifauna & low-flying species• Reserves a greater area for potential ecological compensations