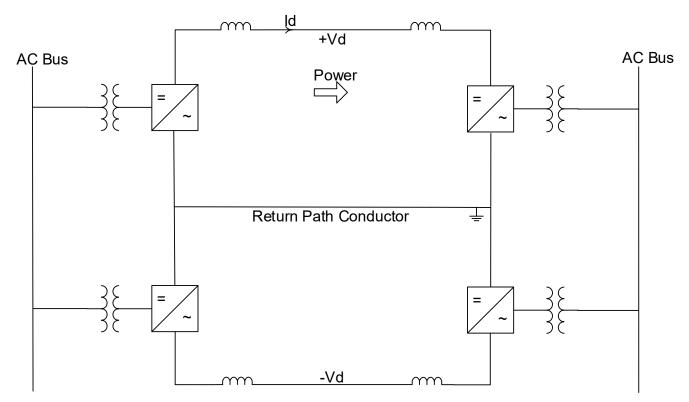
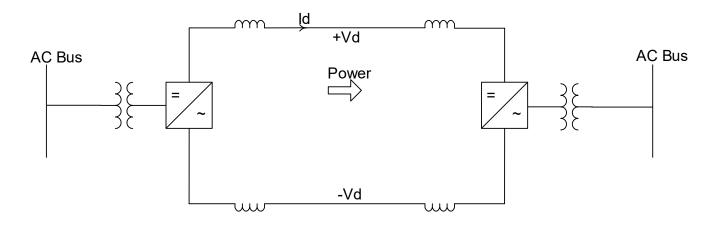
Appendix D Concept design drawings for Options 2, 3 and 4

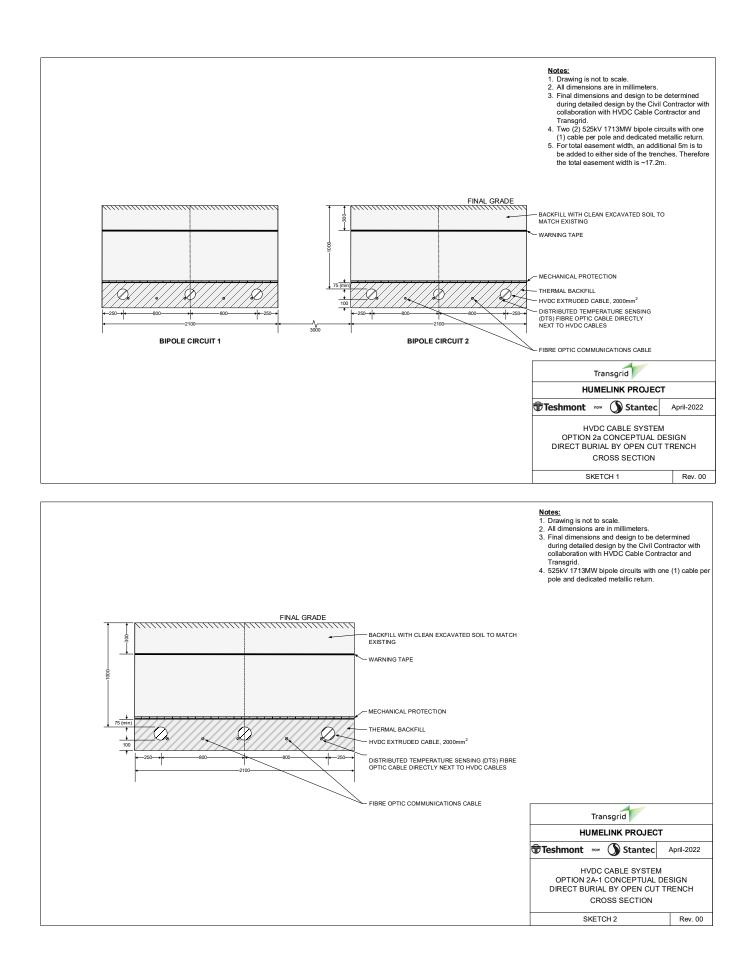
Conceptual design drawings for Options 2, 3, and 4

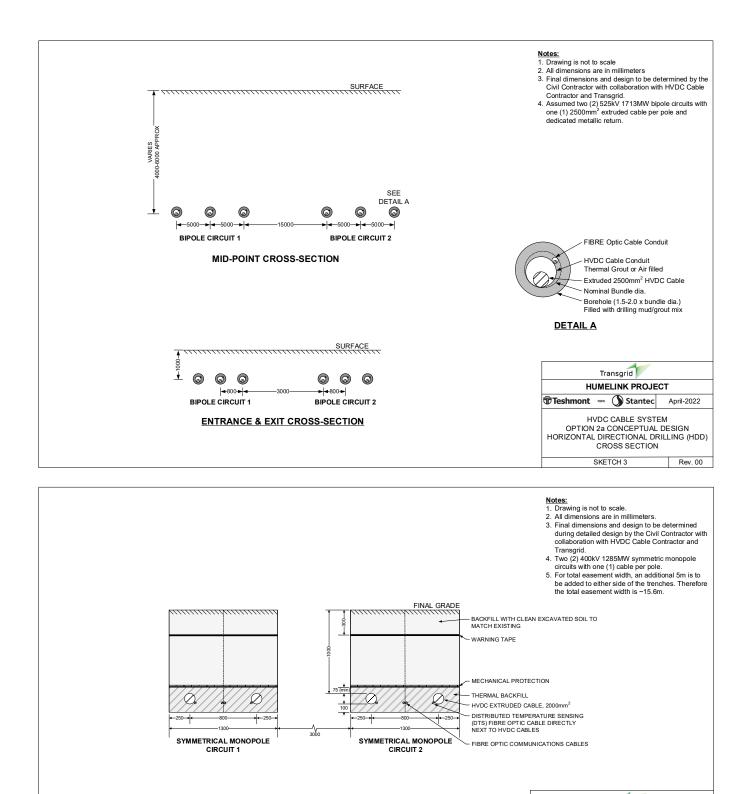
HVDC bipole configuration consists of two high voltage poles, one negative and one positive, and a low voltage return path. If one converter or one high voltage pole conductor is lost, then the system can still operate at half the power transfer capability.



A symmetrical monopole configuration also has two high voltage pole conductors, but only one converter group between the positive and negative voltages. Loss of any element within the system will result in the loss of the complete system.







Transgrid HUMELINK PROJECT

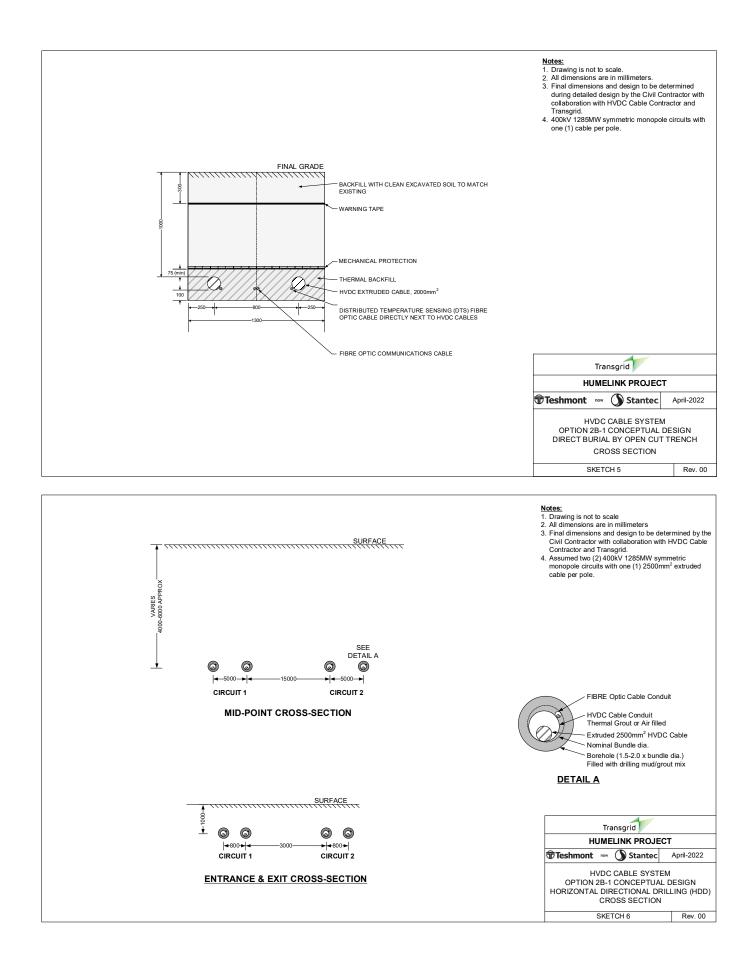
HVDC CABLE SYSTEM OPTION 2b CONCEPTUAL DESIGN DIRECT BURIAL BY OPEN CUT TRENCH CROSS SECTION

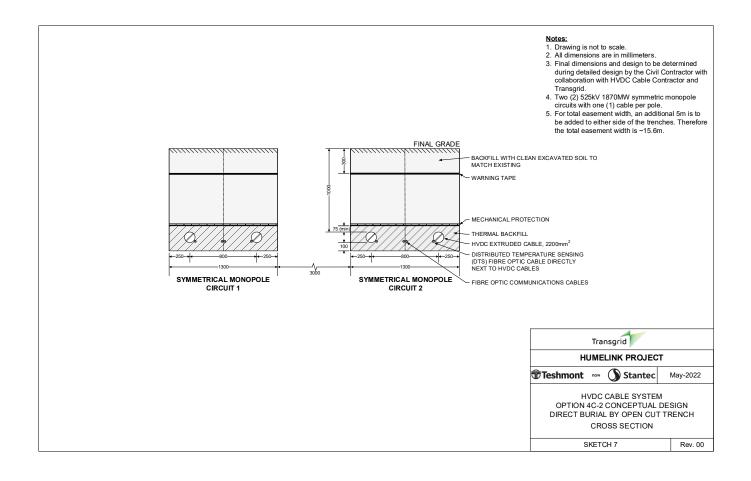
April-2022

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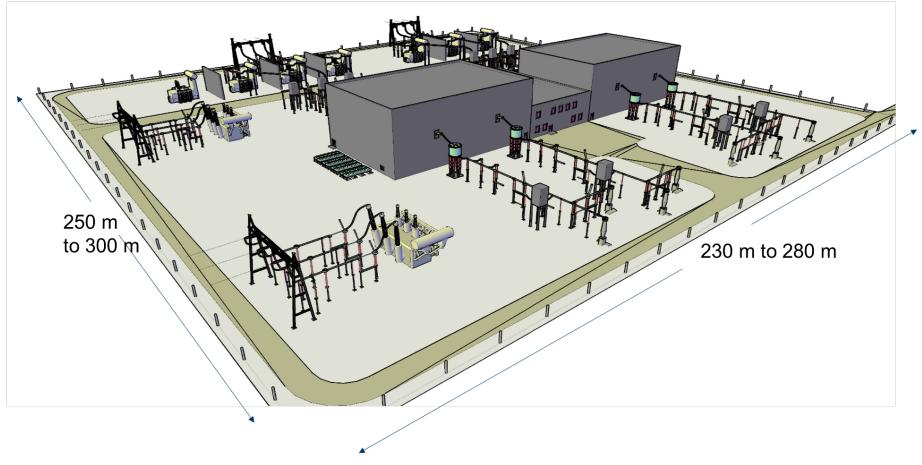
SKETCH 4



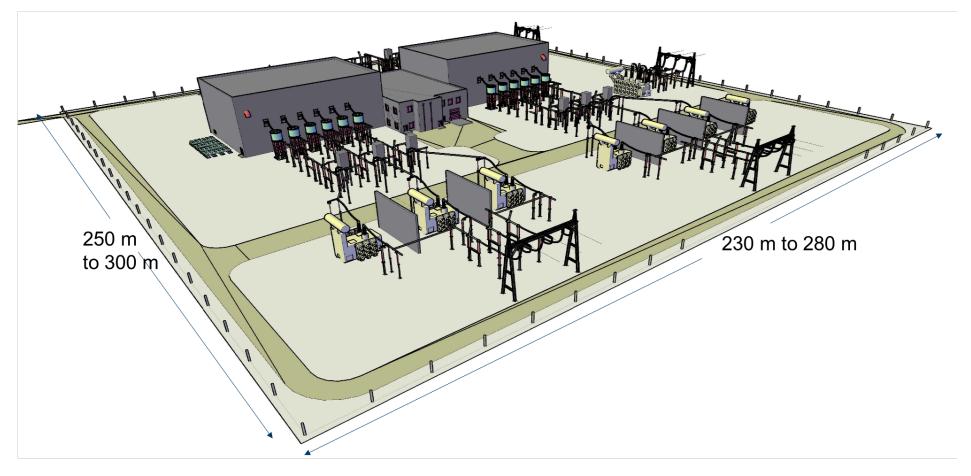


Layouts for the converter stations are as follows.

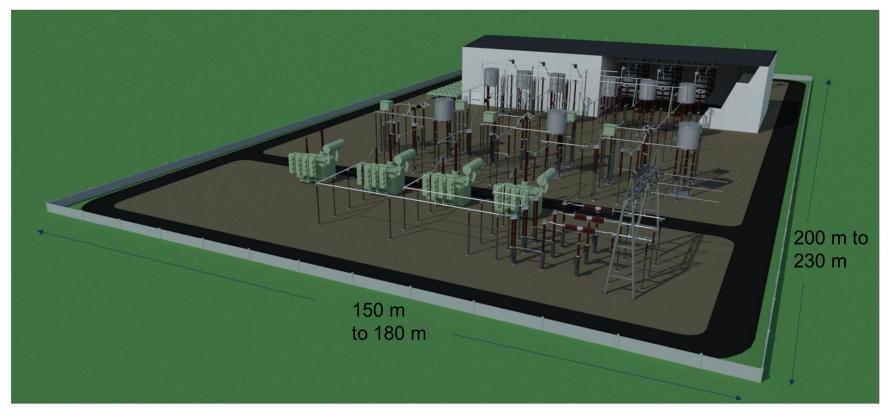
1713 MW Bipole Converter Station



1713 MW Bipole Converter Station



1285 MW Symmetrical Monopole Converter Station



1285 MW Symmetrical Monopole Converter Station

