

Central Region

Discussion Leader Tom Lackowski



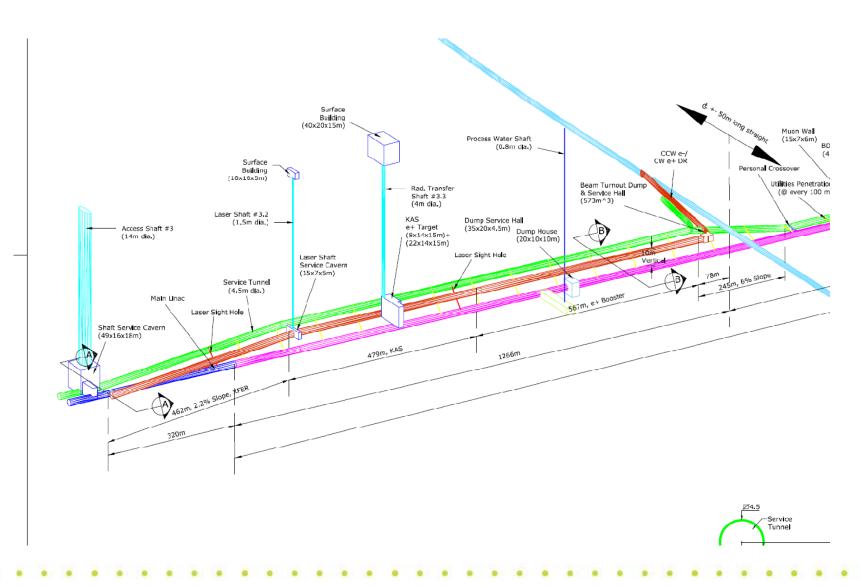
Agenda

 This is not a presentation; this is to be a discussion with pictures and a few words.

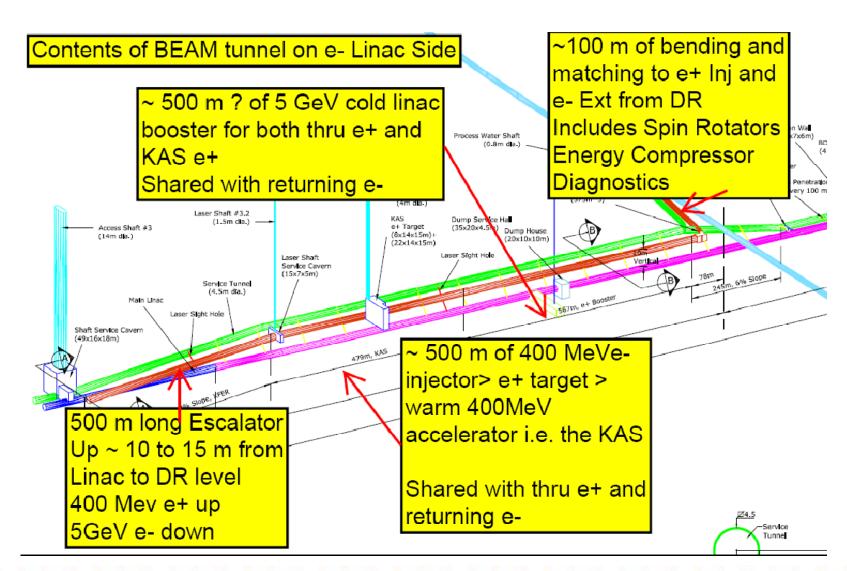
 Rick Ford will present the Alignment Group's proposal for the ILC coordinate system



RDR Americas









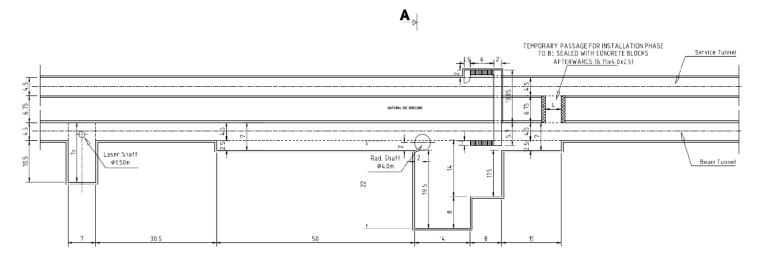
Slide Title

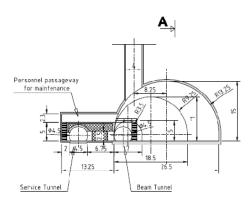
- The change of elevation or escalator slope is probably conservative and could be shortened but this is a beam dynamics issue for the returning e A 4% or 5% slope may be a maximum......should push the experts.
- The length of 500m for the KAS (e- injector, target, capture and reaccelerate) is probably as short as it can be within ~ 10%. The e+ linac side does not need all of it and we could make the two sides different?
- The 500m for the 5GeV booster linac is generous, it could be 300m, and it is only history that got us to 500m.
- The section from the booster to the DR has to be ~ 150m (along the beam line) and is complex with bend angles being determined by compression and spin rotation. Although complex it is short and we can probably adapt to many possible layouts.
- In summary we need 900 to 1000 meters of beam line at the same elevation as the DR and 200 to 500m for elevation change.
- Another general comment on your 1 thru 4 options, they all have more total length of tunnels as they do not always share the service tunnel with the BDS, at least not all the way. You are going to have to convince a lot of people that they have better "value". This is going to be a fun discussion.

Ewan



KAS





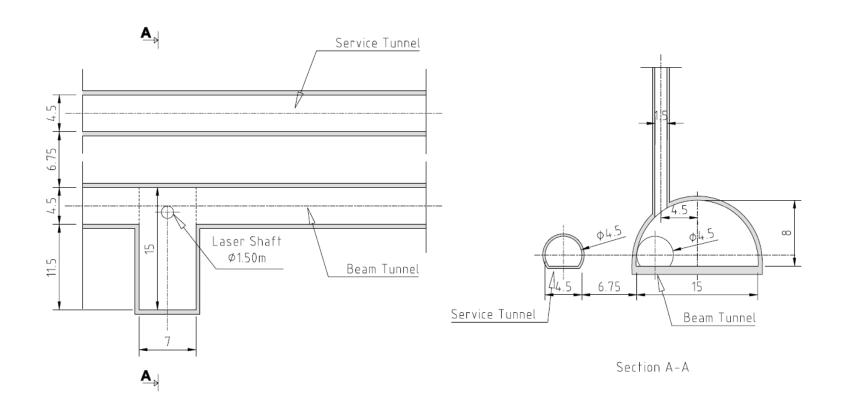
Section A-A

EUROPEAN REGION

Date

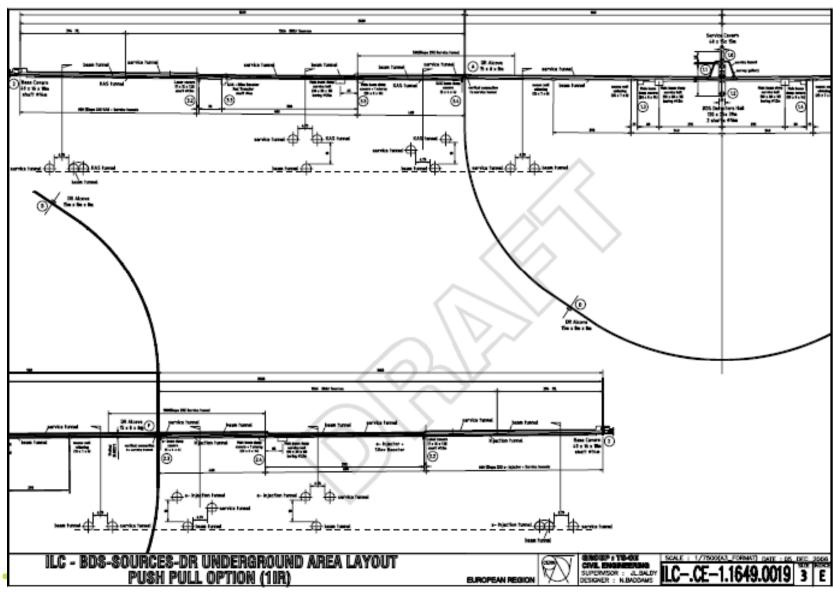


-e Source



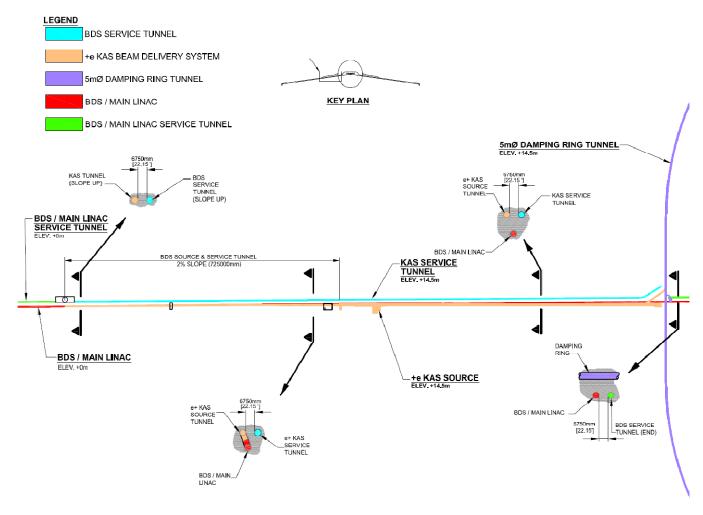


Base RDR Layout (Europe)





Base RDR Layout (Americas)



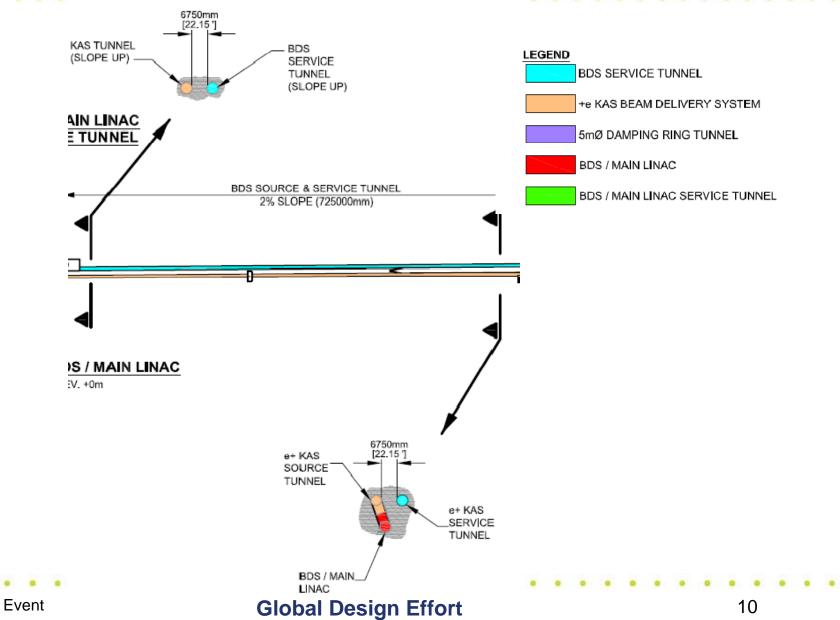
PLAN - +e SOURCE

VALUE MANAGEMENT CENTRAL REGION BASE SCHEME



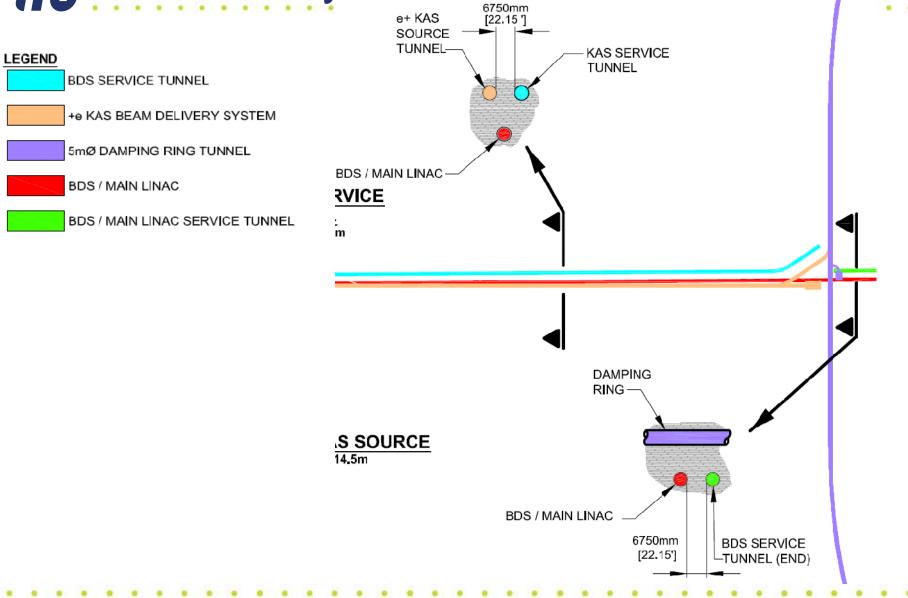
Date

Base Layout detail



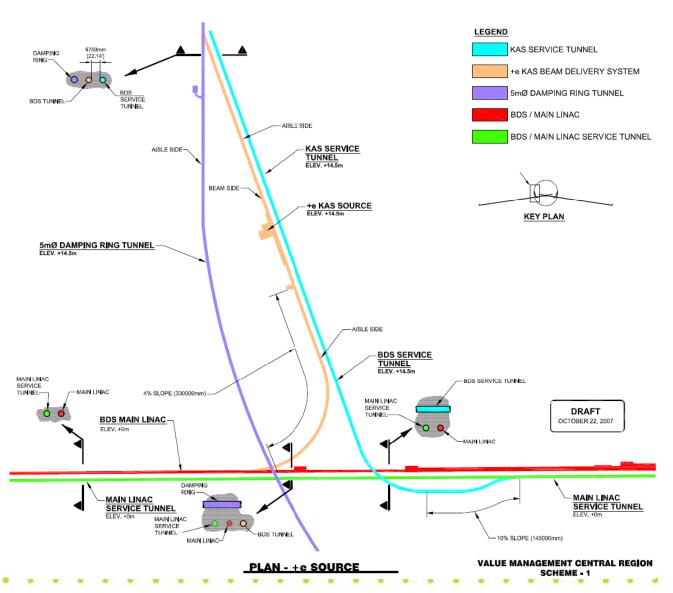


Base Layout at Damping Ring



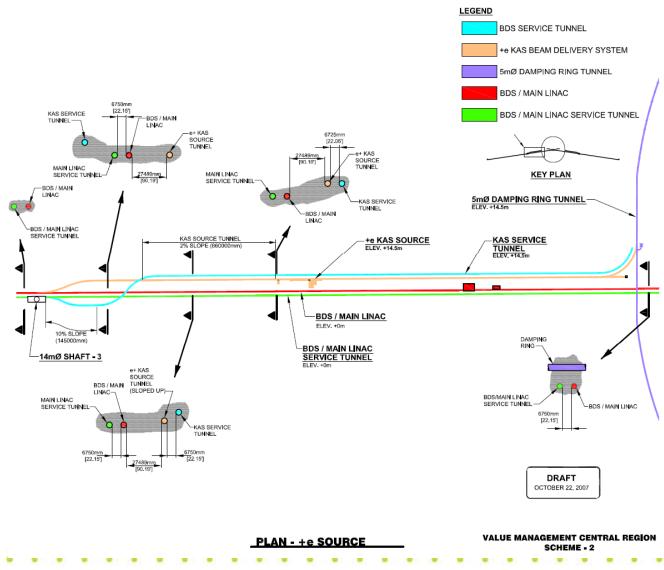


Alt. Scheme 1





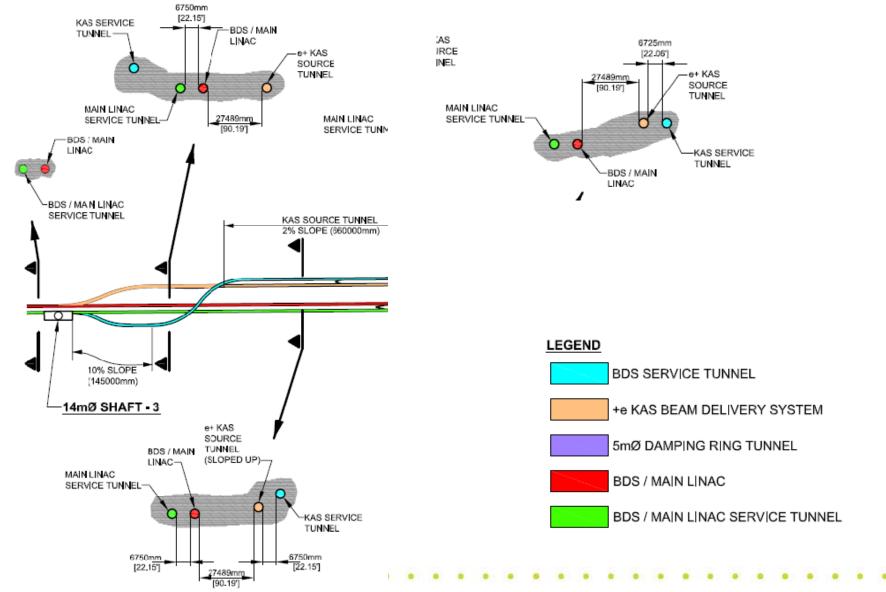
Alt Scheme 2



Date Event

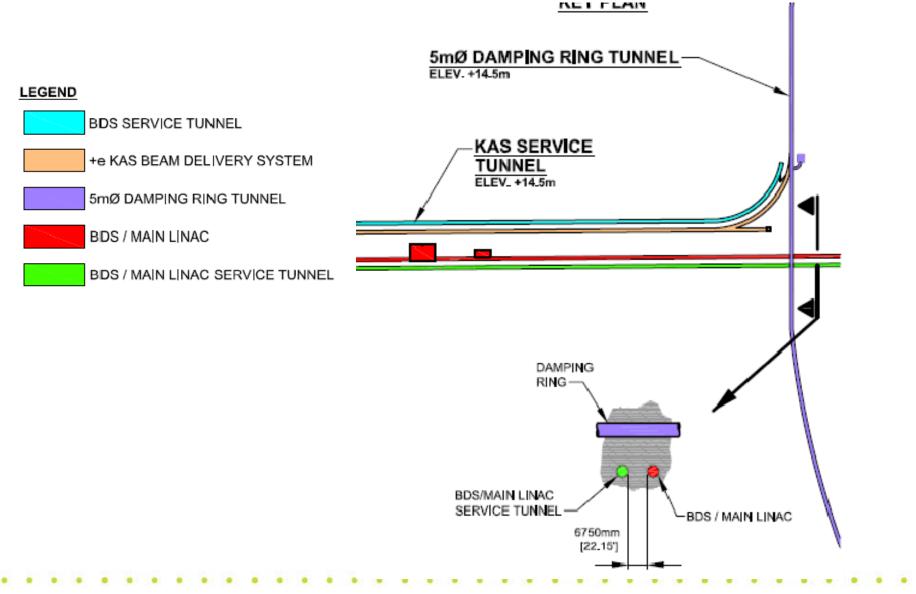


Detail Scheme 2

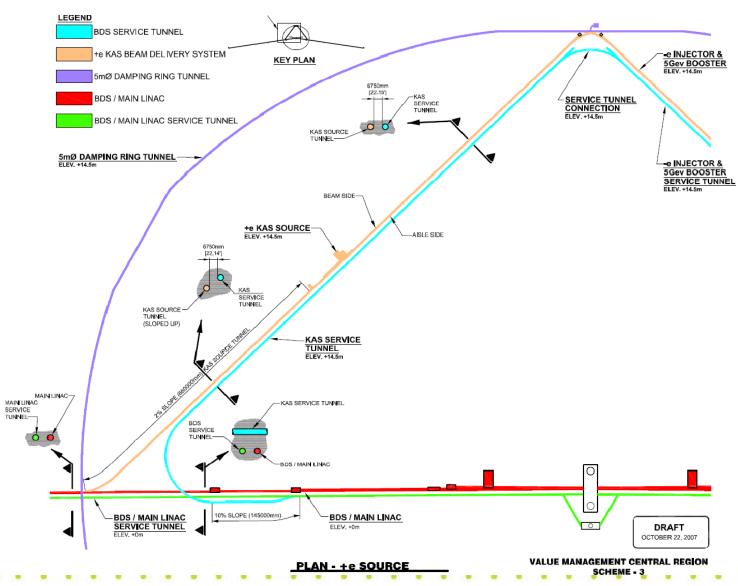




Detail Scheme 2

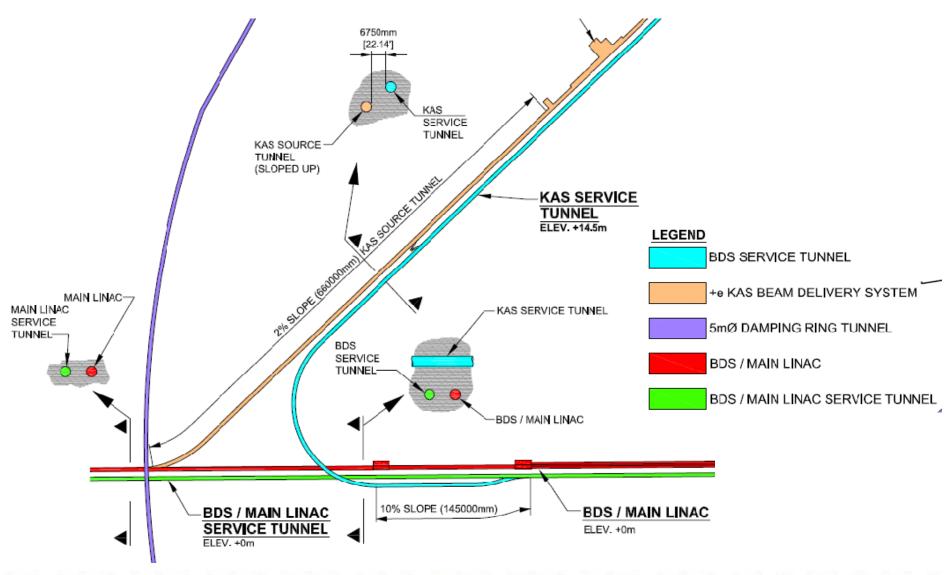






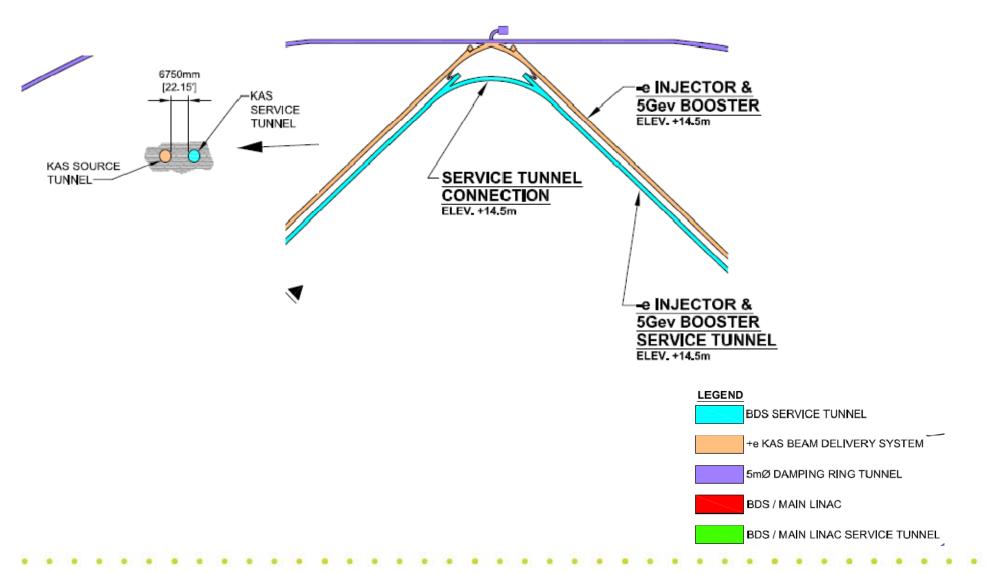


Scheme 3 Detail

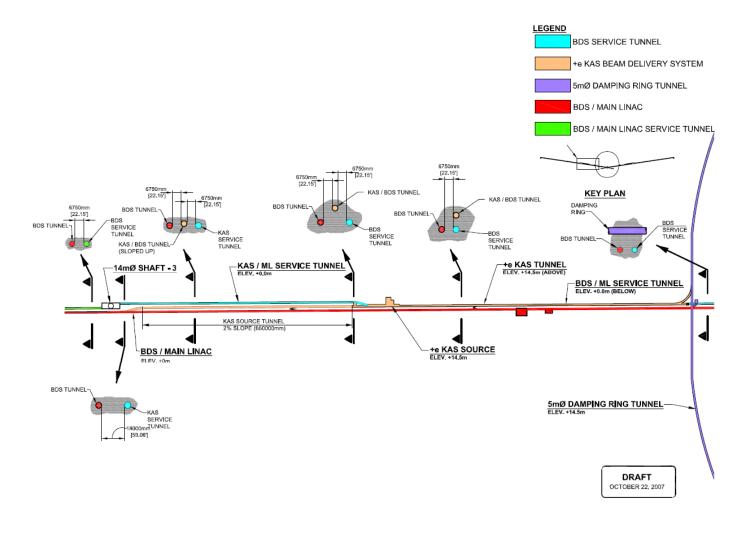




Scheme 3 Detail







PLAN - +e SOURCE VALUE MANAGEMENT CENTRAL REGION SCHEME - 4



