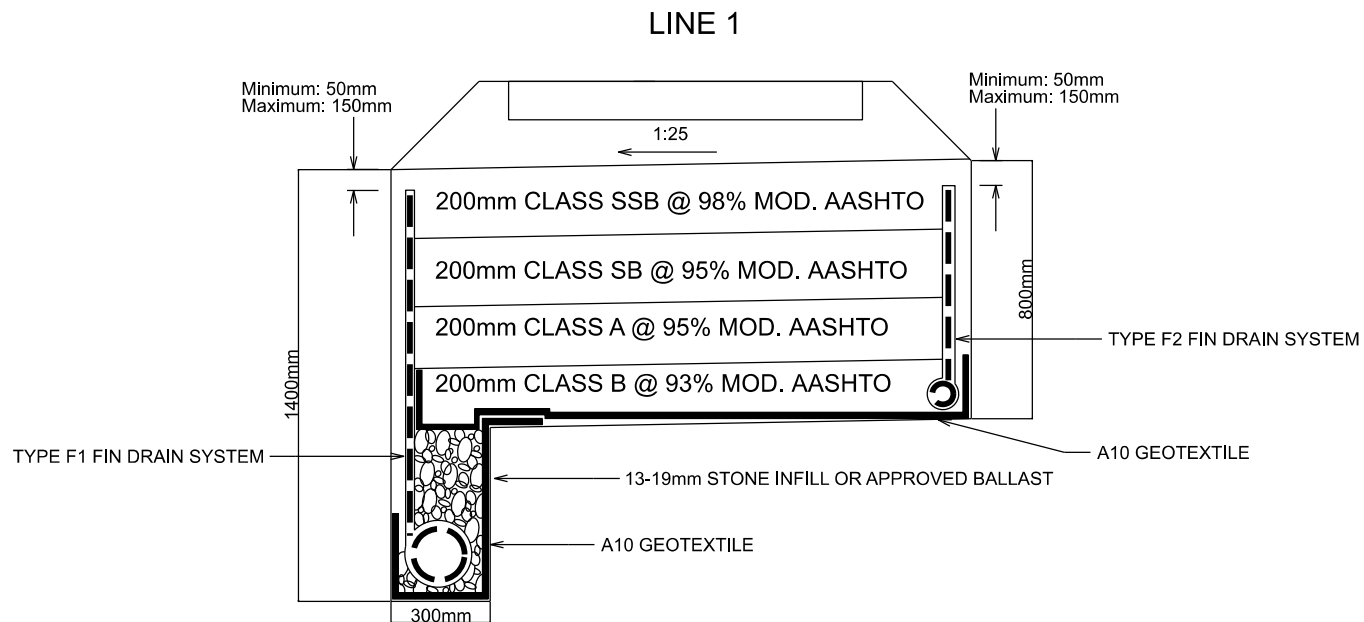




1. Existing surface U-drains should be cleared of vegetation, sediment and ballast.
2. Excavate formation to a depth of 800 mm.
3. Excavate further to a depth of 1400 mm and width 300 mm for subsurface drainage system.
4. **Spill excavated material.**
5. Compact in-situ material to a minimum of 90% MOD AASHTO.
6. Proper bedding of F1 and F2 drainage pipes to be done.
7. Installation of A10 geotextile for separation between the ball earthworks and B layers.
8. Installation of F1 and F2 fin drain systems at 1400 mm and 800 mm, respectively.
9. Opening between the fin drain top and formation level should be a maximum of 150 mm and minimum of 50 mm.
10. **All geotextile overlaps to be 200 mm.**
11. Place 200 mm of class B material compacted to a minimum of 93% MOD AASHTO.
12. Place 200 mm of class A material compacted to a minimum of 95% MOD AASHTO.
13. Place 200 mm of class SB material compacted to a minimum of 95% MOD AASHTO.
14. Place 200 mm of class SSB material compacted to a minimum of 98% MOD AASHTO.
15. Materials placed for SSB, SB, A and B layers should meet requirements as set out in the S410 specification for railway earthworks.
16. **Ballast to be placed with a minimum thickness of 300 mm and should meet requirements as set out in the S406 specification for ballast.**
17. Subsurface drain outlet must join the outlet for the surface drain located at KM 59/2.

TRANSNET FREIGHT RAIL
TECHNOLOGY MANAGEMENT

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JEPPESTOWN
JOHANNESBURG
2043

GELUKSPLAAS
BETWEEN KM57/19 & KM59/2
FORMATION REPAIR

NOT DRAWN TO
SCALE

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