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| **Breast High Road Bretherdale Restoration Project - Route Specification** | | | | |
| **Map Ref** | **Current feature/**  **condition** | **Access Improvement** | **Material/**  **Size req.** | **Image** |
| 1 | Track washed away due to culvert overflowing | Use material gained from 4 to fill in section of track. | 3m x 4m area | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\IMG_7693.JPG |
| 2 | Culvert not large enough and washing away road | Install pitched wath. Increase drain under the wall, installing a bigger top stone over the culvert then rebuilding the wall – using the new culvert stone as the wall foundation | 5m x 4m pitched area: Est 20t stone | L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG4008.JPG  L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG4007.JPG |
| 3 | Side of track falling away | Revetment up side of track | 2m | L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG4011.JPG |
| 4 | Source of material for infilling track at 1. | Source of material |  | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 4.JPG |
| 5 | Broken culvert not working | Replace with 60cm culvert | 60cm culvert pipe. | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 5.JPG  L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 5 (2).JPG |
| 6 | Water washing across road | Reinstate aggregate wath |  | L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG4014.JPG |
| 7 | Small wath | Maintain small wath |  | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 6.JPG |
| 8 | Small wath | Maintain small wath |  | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 8.JPG |
| 9 | Water washing across road | Install pitched ford to enable water to flow over route without washing away | 3mX4m Pitching.  Est. 12 tonne stone | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 9.JPG |
| 10 | Drainage ditch blocked | Reinstate drainage ditch | 40m | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 10.JPG |
| 11-12 | Drainage ditch on either side of route | Install 65 m side drains on both sides | 130m. Use any material gained on track to increase surface. |  |
| 13 | 30cm Culvert - ok | Maintain existing culvert - ensure clear |  | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 13.JPG |
| 14-15 | drainage ditch on south side - not functioning/blocked or non-existent | Reinstate/install drainage ditch | 235m. Use any material gained on track to increase surface | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 14-15 (2).JPG |
| 16-17 | Existing drainage ditch into beck | Reinstate/install drainage ditch into beck | 25m. Use any material gained on track to increase surface | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 16-17.JPG |
| 18 | Existing broken culvert | Replace with 30cm culvert | 30cm culvert pipe | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 18.JPG |
| 19 | Path washed away by water | Install pitched wath | 3m x 4m wide pitched wath | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 19.JPG |
| 20 | Existing 30cm culvert ok | Maintain existing culvert - ensure clear |  | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 20.JPG |
| 21 | Existing 30cm culvert ok | Maintain existing culvert - ensure clear |  | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 21.JPG |
| 22 | Existing 90cm culvert drain with broken concrete over | Replace with a 4m x 4m bridge.  Reprofile upstream bank to provide materials to infill track.  Clear downstream drain. | Design and build 4m x 4m steel and plaswood bridge. | L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG3998.JPG  L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG3995.JPG  L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG3994.JPG  L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\1. Requirements\Map Ref 22 (2).JPG |
| 23 | Broken culvert not working | Reinstall new 30cm culvert – 2 lengths. | 2 x 30cm culvert pipes | L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG4025.JPG |
| 24-25 | existing broken/blocked drainage ditch | Reinstate drainage ditch | 30m Use any material gained on track | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 24-25.JPG |
| 26-27 | Side drain to beck | Reinstate drainage ditch  Move track to right hand side of gully. Form a drain on left hand side of track. | 50m  Use any material gained on track | L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG4033.JPG |
| 28 | Broken culvert with concrete over | Replace with 6mx3m bridge.  Lower beck on upper side to avoid overflow downstream | 6mx3m steel bridge  Design and build steel and plaswood bridge | L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG3981.JPG  L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG3982.JPG  L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG3984.JPG  L:\Park Management\Parkwide Projects & Work\Fix the Fells\Digital Images\NEW from March 2019\Breast High Road\RIMG3986.JPG |
| 29 | Concrete culvert broken | Replace concrete with a pitched ford | 4mx3m pitching.  Est 12t stone req. | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\1. Requirements\Map Ref 29 (3).JPG |
| 30 | Broken culvert with concrete over | Replace culvert with 60cmx6m pipe in 2 lengths. | 60cm x 6m pipe in 2 lengths | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\1. Requirements\Map Ref 30 (2).JPG |
| 31 | Users widening road | Narrow road to 3m. Subsoil surface. Use boulders to narrow and restrict access to surrounding area. | Boulders req. | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\1. Requirements\Map Ref 31 (2).JPG |
| 32 | Naturally occurring drainage feature | Utilise drainage feature to encourage water off the route |  | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 32.JPG |
| 33-34 | Water running on track | Aggregate ditch alongside track. 1m wide | 150m | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 33-34.JPG |
| 35-36 | Side drain | Reinstate/install side drain | 150m | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 35-36.JPG |
| 37 | Side drain blocked | Deepen side drain | 20m | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 37.JPG |
| 38-39 | Side drains on both sides blocked | Deepen and clear side drains on both sides. Use material to infill track. | 100m x 2 | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\1. Requirements\Map Ref 38-39.JPG |
| 40 | Culvert blocked/broken | Replace 45cm culvert and remove some of the bank to reprofile route | 45cm | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 40.JPG |
| 41 | Cross Camber drain not working | Reinstate |  | L:\Projects\PMF Projects\PR0026 - Breast High Road Enhancement Project\5. Design\Site Visit Photos\Map Ref 41.JPG |

We will also require subsoiling and surfacing of 600 metres (x 3 metre width) of track within the Bretherdale section. See below for map.

We have identified potential sources of substrate which could also be used during the subsoiling process – subject to agreement with the site supervisor and landowner.

The subsoiling will require a 6inch (15cm) capping of aggregate material in addition to the subsoiling.

