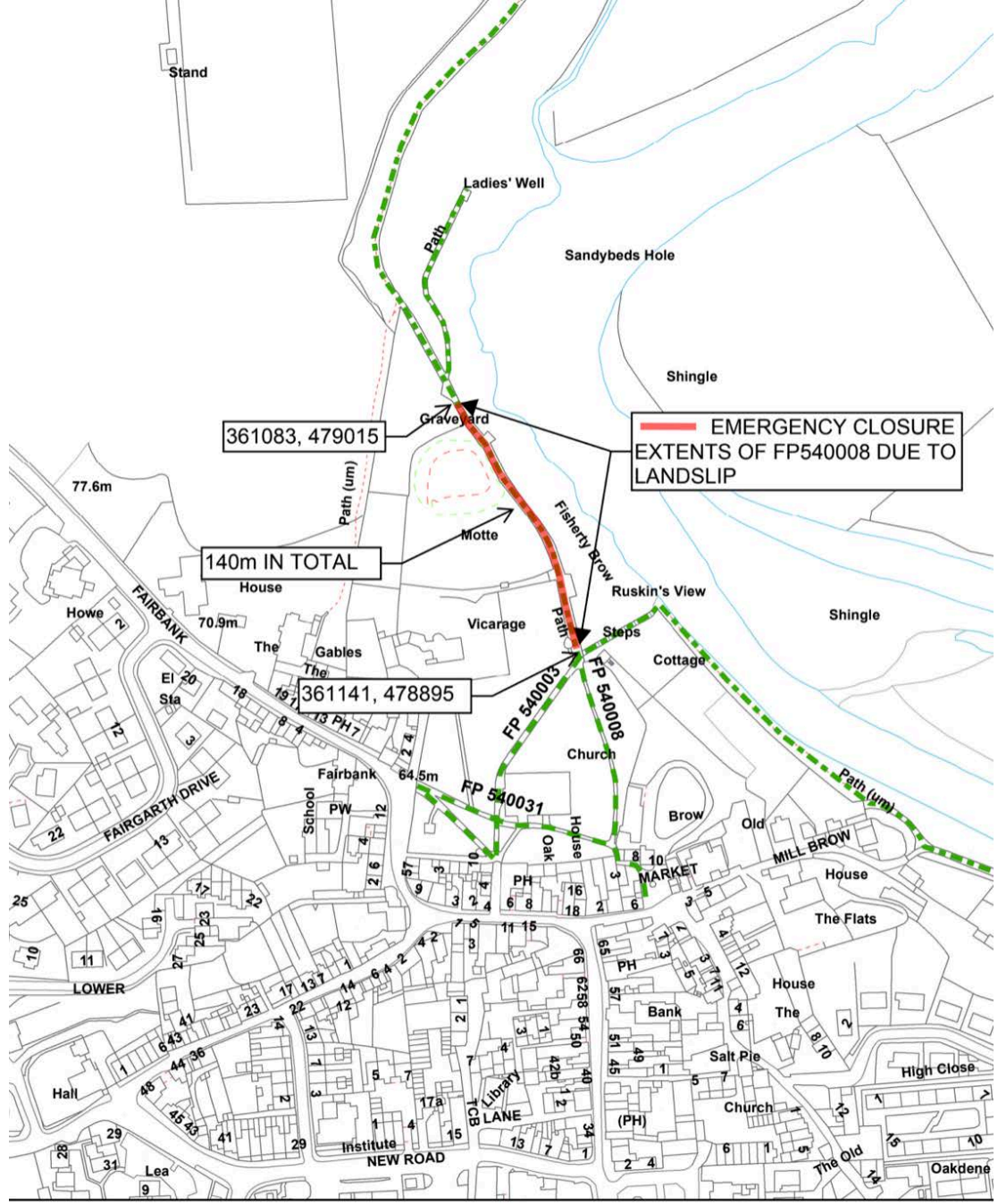
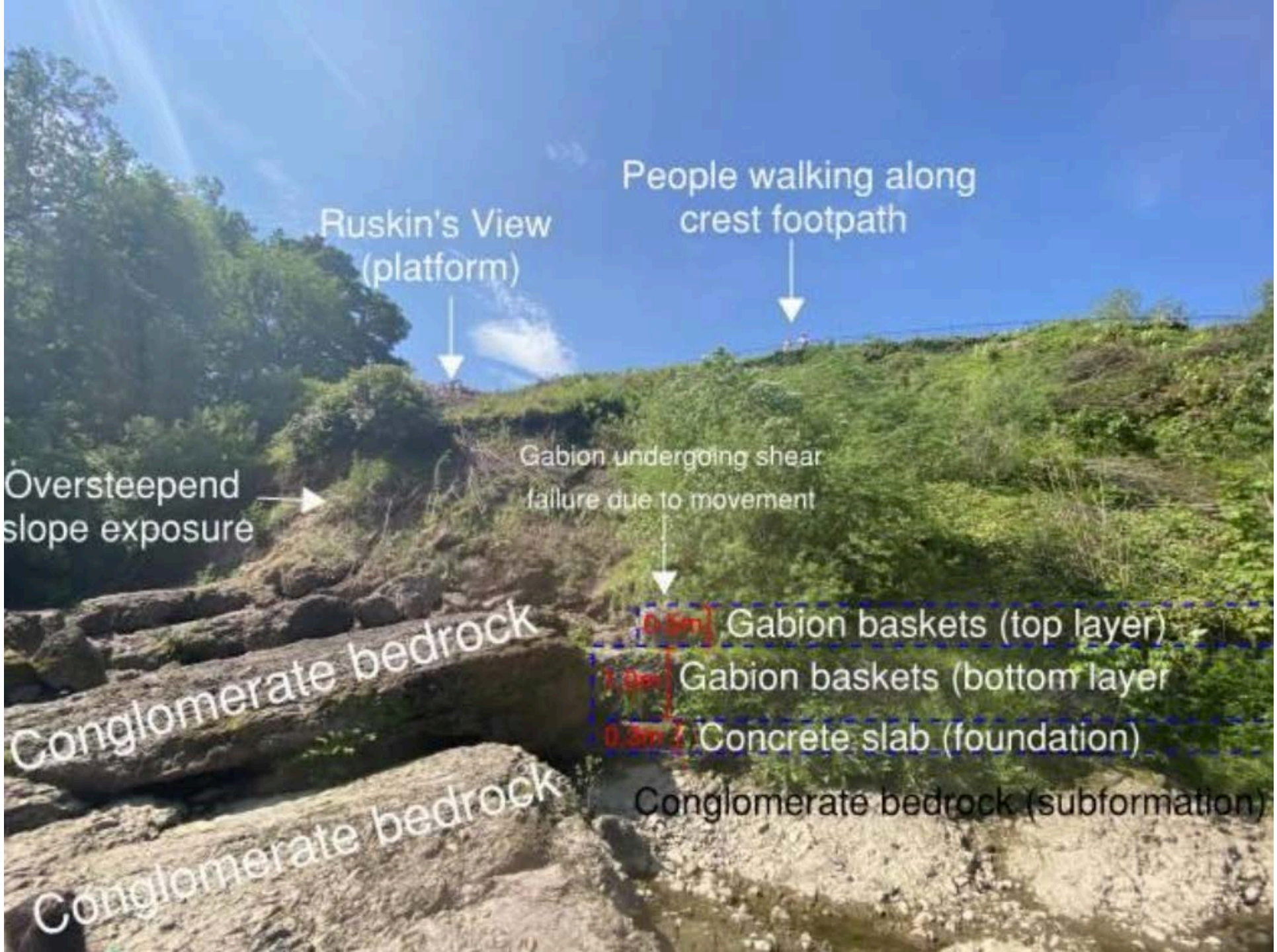


Cumbria County Council

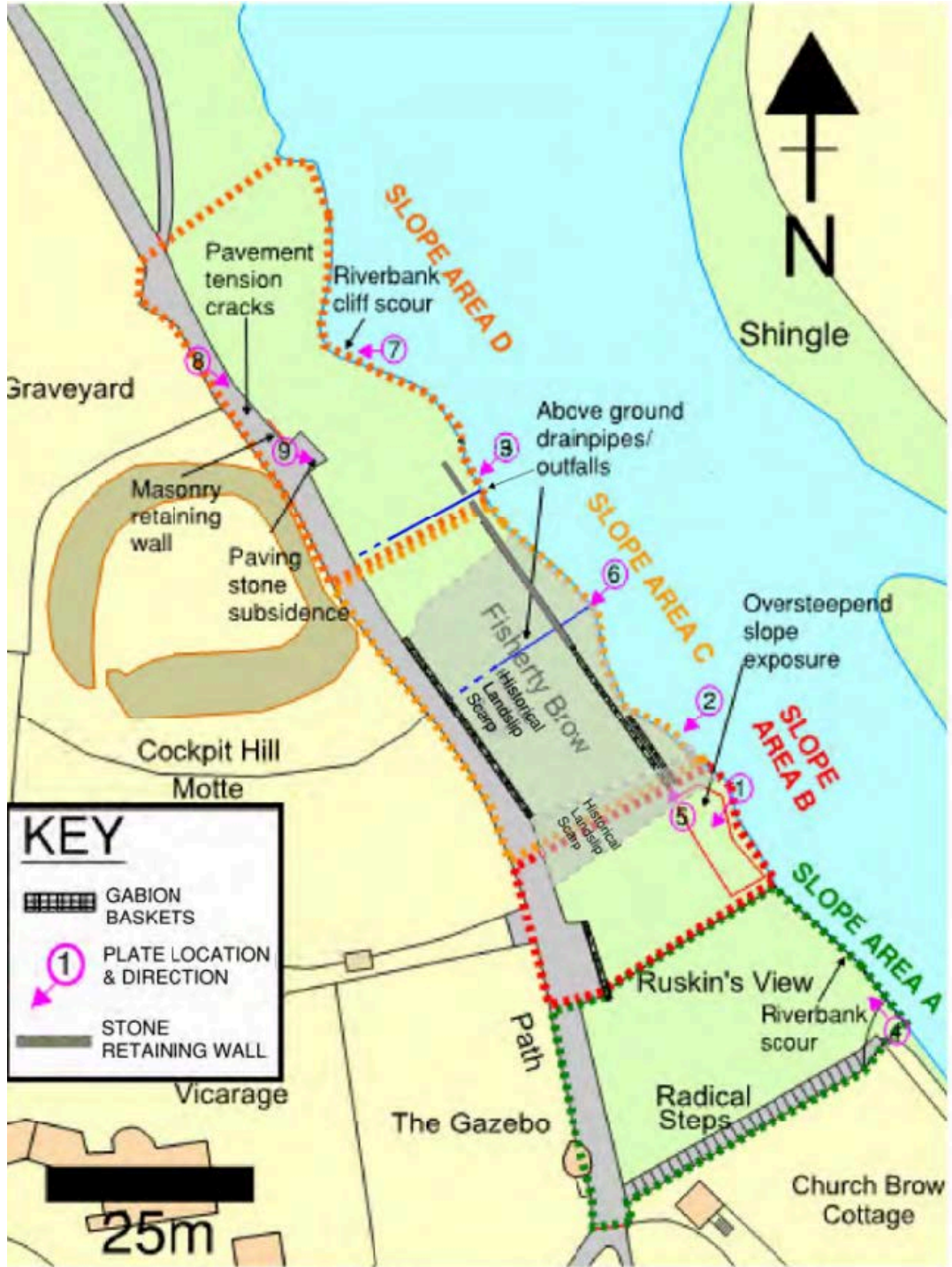
Emergency Closure Extents

Scale: 1:2,500 @ A4

Thin topsoil layer
Glacial-fluvial deposits:
very gravelly fine to coarse
SAND with occasional cobbles
Loose eroded material on top of
very weathered conglomerate
bedrock


Ruskin's View
(platform)
People walking along
crest footpath
Gabion undergoing shear
failure due to movement
Oversteepend
slope exposure
Gabion baskets (top layer)
Gabion baskets (bottom layer
Concrete slab (foundation)
Conglomerate bedrock (subformation)
Conglomerate bedrock
Conglomerate bedrock

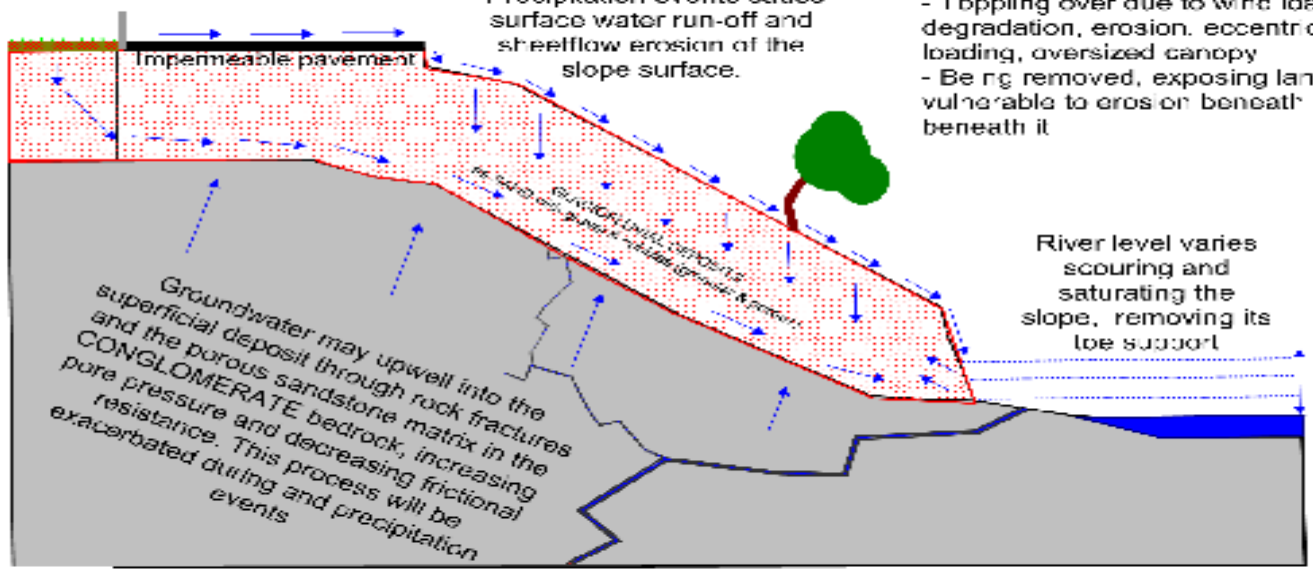
Viewing platform
Tension crack and concave oval subsidence in the pavement at the crest of the slope, indicative of slope instability. No retention present on slope-side of the edge of footpath.


N
Shingle
SLOPE AREA D
Pavement tension cracks
Riverbank cliff scour
Graveyard
Above ground drainpipes/ outfalls
Masonry retaining wall
Paving stone subsidence
SLOPE AREA C
Fisherty Brow
Historical Landslip Scarp
Oversteepend slope exposure
SLOPE AREA B
Cockpit Hill
Motte
Historical Landslip Scarp
SLOPE AREA A
Ruskin's View
Riverbank scour
Path
Vicarage
The Gazebo
Radical Steps
Church Brow Cottage
KEY
GABION BASKETS
PLATE LOCATION & DIRECTION
STONE RETAINING WALL
25m

Precipitation events cause surface water infiltration through the grass and into the superficial deposit, increasing pore pressure and decreasing frictional resistance

Where vegetation is present it can increase slope stability by:
- Providing root-anchorage
- Helping prevent scour erosion by intercepting surface water run-off
- Reducing the amount of water in the ground via plant transpiration and promoting evaporation.

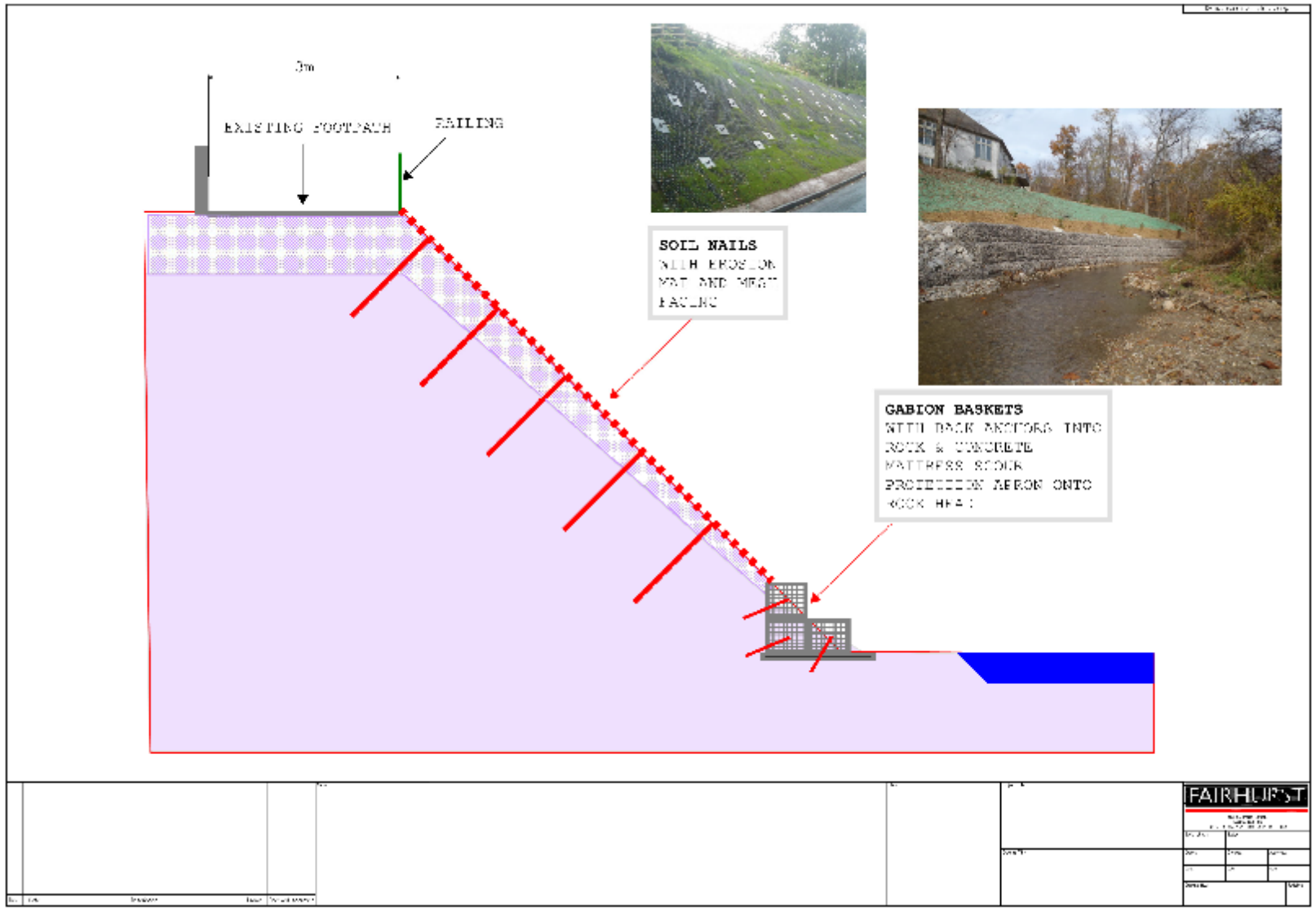
Decrease slope stability by:
- Root loosening and material shearing
- Toppling over due to wind loading, degradation, erosion, eccentric loading, oversized canopy
- Being removed, exposing land vulnerable to erosion beneath it



FAIRHURST

The Options Available

- Do Nothing
- Manage with Minimum Intervention
- Manage with Major Intervention via Designed Remedial Works


3m
EXISTING FOOTPATH
RAILING
SOIL NAILS
WITH EROSION
MAT AND MESH
FACING
GABION BASKETS
WITH BACK ANCHORS INTO
ROCK & CONCRETE
MATTRESS SCOUR
PROTECTION APRON ONTO
ROCK BED
FAIRHURST