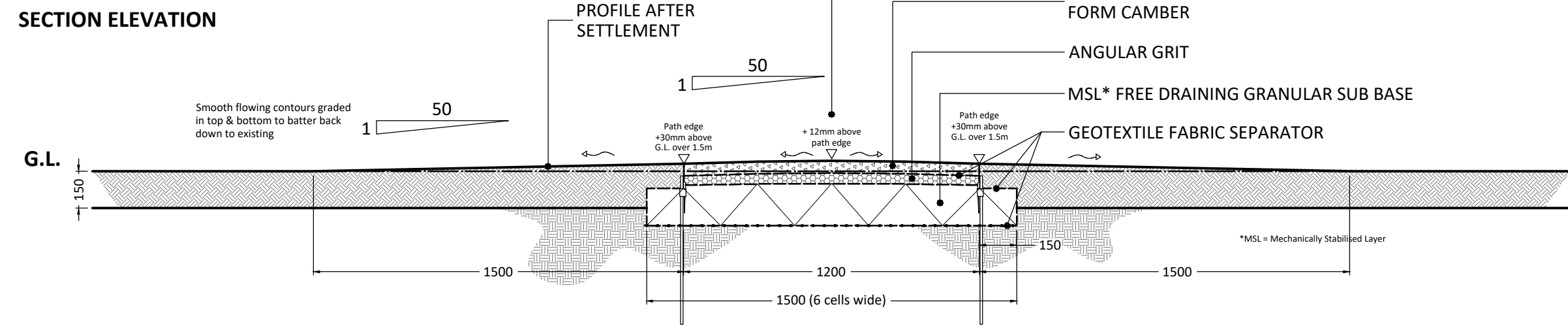


# PEDESTRIAN FOOTPATHS: WORKED EXAMPLES

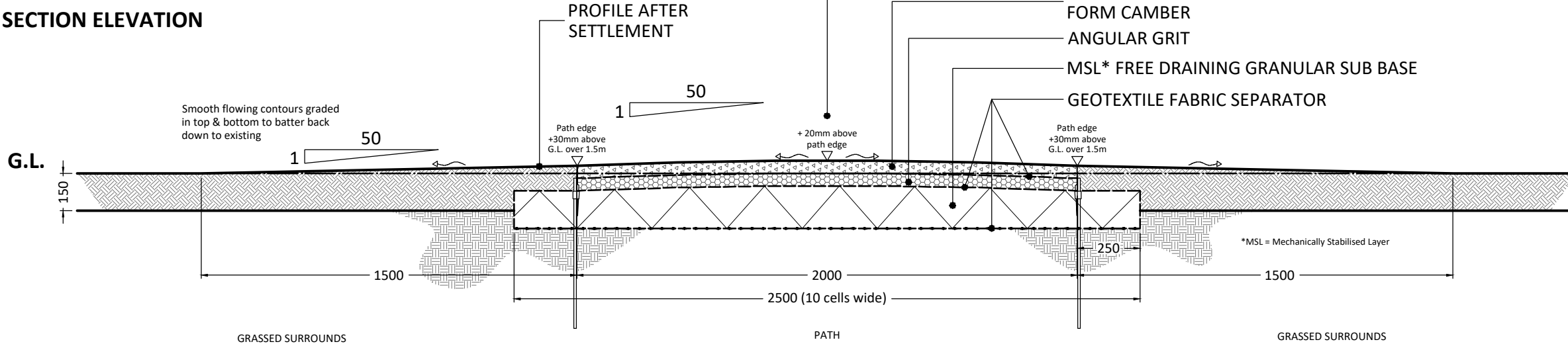
## 1. 1.2m WIDE GRAVEL FOOTPATH

Scale 1:20



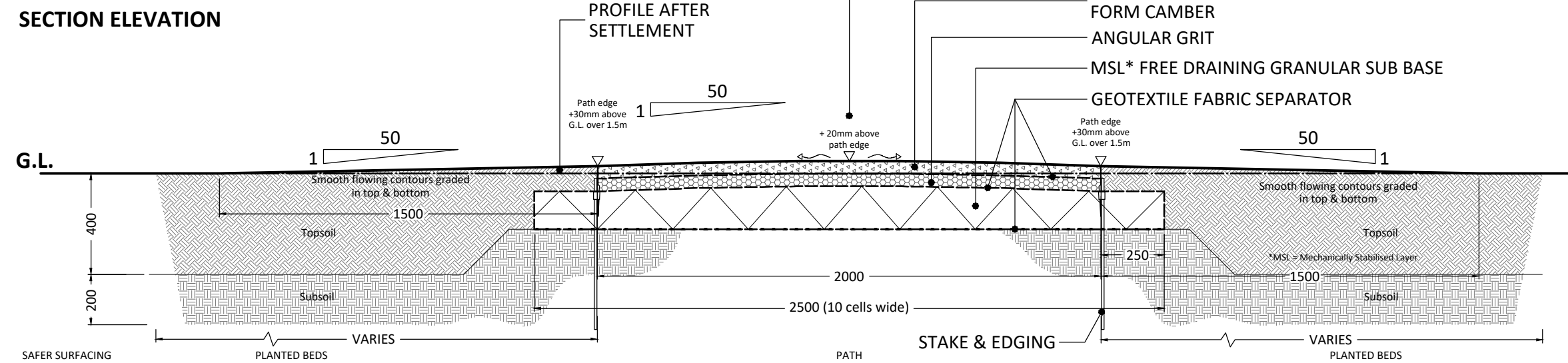
## 2. 2m WIDE GRAVEL FOOTPATH THROUGH PLAY AREA

Scale 1:20



## 3. 2m WIDE GRAVEL FOOTPATH THROUGH PLANTED BEDS

Scale 1:20

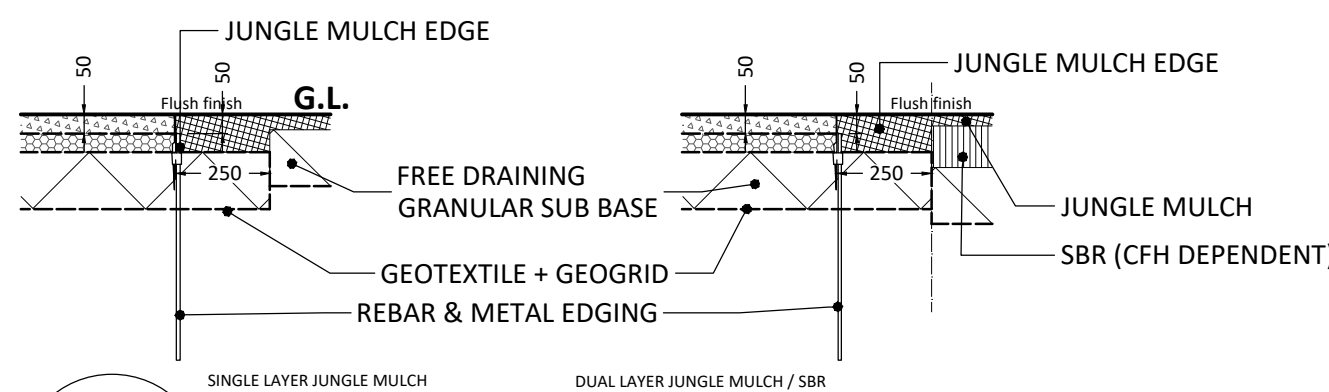


## PLAY AREA SURFACING ENVIRONS: ILLUSTRATIVE CROSS SECTIONS

REFER TO TABLE 1 & 2 FOR FURTHER INFORMATION

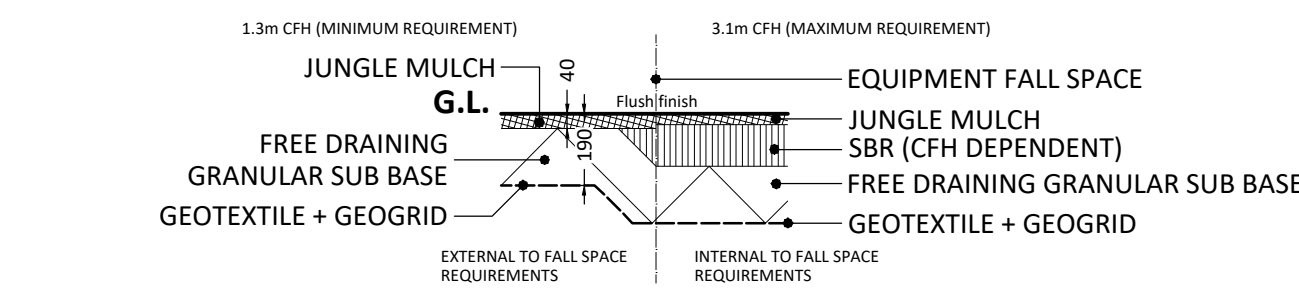
## AA GRAVEL FOOTPATH TO JUNGLE MULCH

Scale 1:20



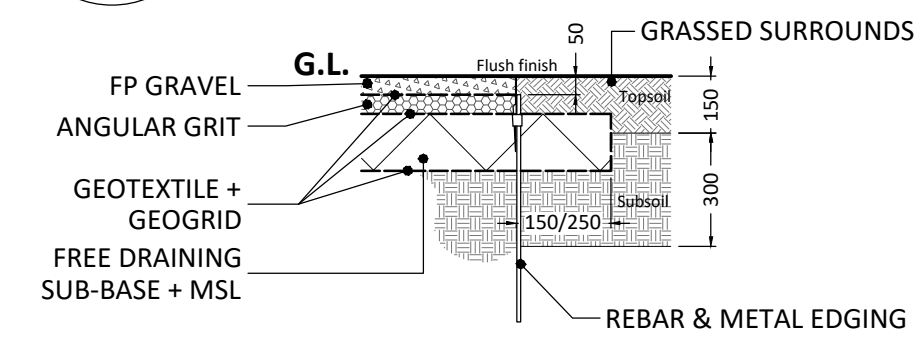
## EE JUNGLE MULCH EXTERNAL TO & INTERNAL TO CFH REQUIREMENTS

Scale 1:20



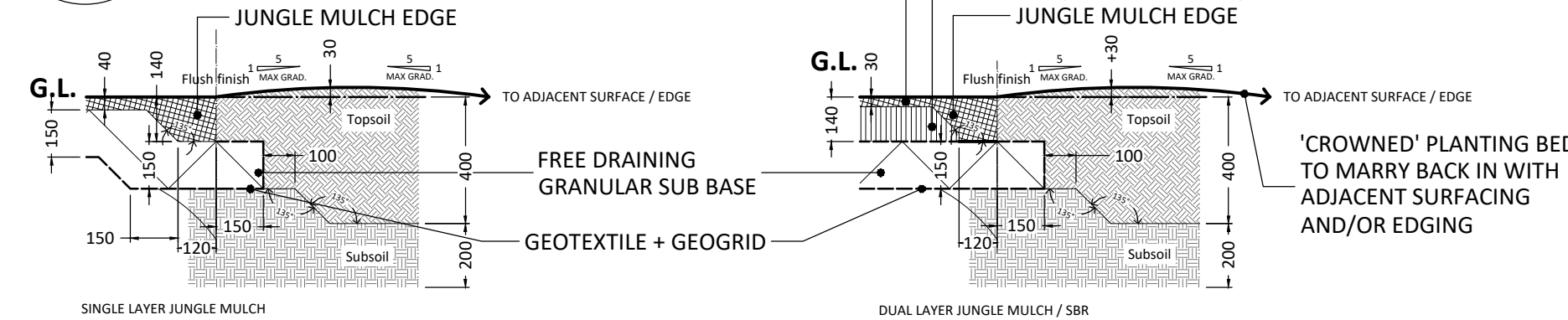
## BB GRAVEL FOOTPATH TO GRASSED SURROUNDS

Scale 1:20



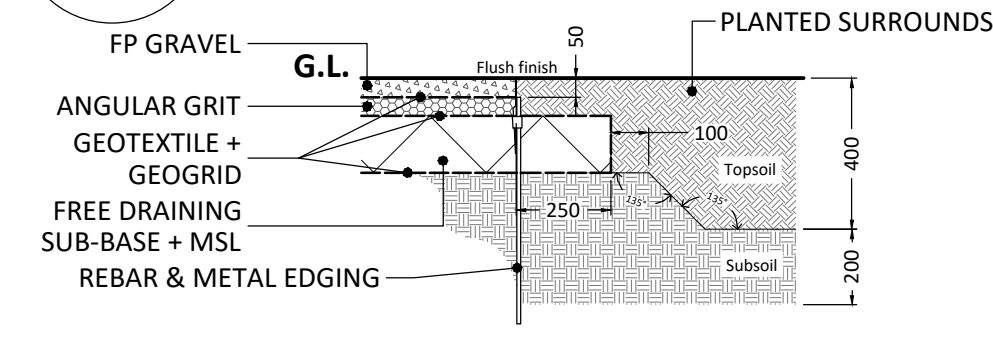
## FF JUNGLE MULCH TO PLANTED SURROUNDS

Scale 1:20



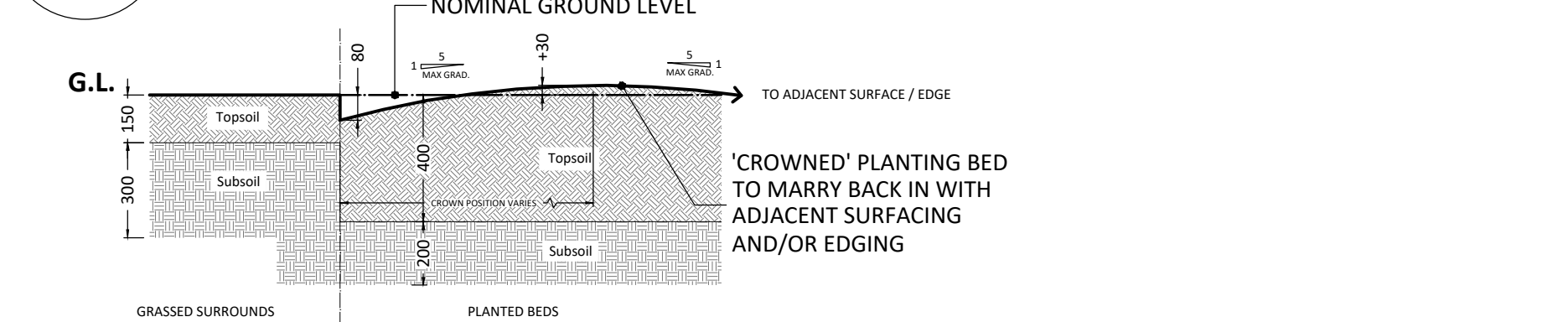
## CC GRAVEL FOOTPATH TO PLANTED SURROUNDS

Scale 1:20



## GG GRASS TO PLANT BORDERS WITHOUT EDGE RESTRAINT

Scale 1:20



## DD JUNGLE MULCH EDGE TO GRASS SURROUNDS

Scale 1:20

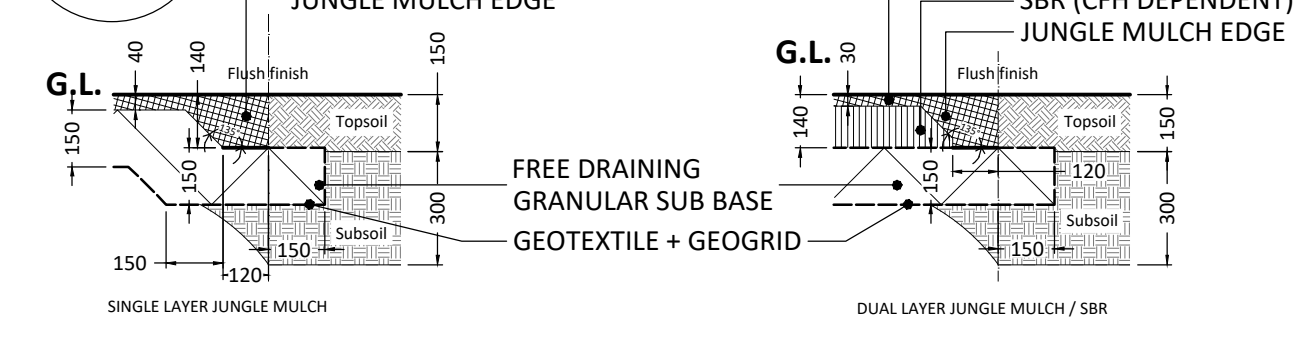


TABLE 1. JUNGLE MULCH DEPTHS AS DETERMINED BY CRITICAL FALL HEIGHT (CFH)

CFH (m)	No. LAYERS	RJM DEPTH (mm)	SBR DEPTH (mm)	SAFER SURFACING TOTAL BUILD-UP
1.3	1	40	0	40
1.7	2	30	25	55
2.3	2	30	50	80
2.8	2	30	90	120
3.1	2	30	110	140

TABLE 2: SURFACING & KERB/EDGE DIMENSIONS & CONSTRUCTION BUILD UP

LAYER	THICKNESS (mm) (after compaction)	MATERIAL NAME	MATERIAL CODE	NOMINAL SIZE OF AGGREGATE (mm)	COMMENTS
<b>FOOTPATH CONSTRUCTION: CENTRAL OPEN SPACE PEDESTRIAN FOOTWAYS NOT REQUIRING SEALED SURFACES</b>					
SURFACE COURSE	50	Footpath Gravel	Cedec Gold Footpath Gravel		Refer to NBS Section Q23, Clause 130A. Above G.L. construction & installed over CGA for drainage purposes.
UPPER FABRIC SEPARATOR		Non-woven Geotextile	Terram 1000		Refer to NBS Section Q20, Clause 170A. Fold up & terminate 10mm below top of edge restraint. Reason to retain surface course.
LAYING COURSE	50	Angular Grit	2-6.3mm Angular Grit	2-6.3	Angular grit to BS EN 12424: 2002. Angular for good frictional interlock. Refer to NBS Section Q23, clause 130A.
FABRIC SEPARATOR		Non-woven Geotextile	Terram 1000		Refer to NBS Section Q20, Clause 170A.
SUB-BASE + MSL	150	Free Draining Granula Sub-base with Mechanically Stabilised Layer	Type 4/20 CGA	4-20	Coarse Graded Aggregate to BS EN 12424: 2002. Angular for good frictional interlock. Refer to NBS Section Q20, clause 215A. Requires Mechanically Stabilised layer (MSL) - see Ancillary Items.
GROUND STABILISATION		Geogrid	Tensar TriAx TX 160		Refer to NBS Section Q20, Clause 170A. Install as per manufacturer's recommendations.
LOWER FABRIC SEPARATOR		Non-woven Geotextile	Terram 1000		Refer to NBS Section Q20, Clause 170A.
<b>JUNGLE MULCH SAFER SURFACING: CFH REQUIRING ONLY A SINGLE LAYER</b>					
SURFACE COURSE	40	Recycled tyre buffing.	Shredded Rubber crumb surface		High grade, polyurethane bound, virgin rubber crumb safer surfacing. Free from fines & impurities such as steel, kevlar, polyester, fabrics, etc. Laid to BS EN 1177 requirements. Depth to increase to form edge as shown. Supply & install by PlaySmart.
SUB-BASE	150	Free Draining Granula Sub-base	Type 4/20 CGA	4-20	Coarse Graded Aggregate to BS EN 12424: 2002. Angular for good frictional interlock. Refer to NBS Section Q20, clause 215A.
GROUND STABILISATION		Geogrid	Tensar TriAx TX 160		Refer to NBS Section Q20, clause 170A. Install as per manufacturer's recommendations.
LOWER FABRIC SEPARATOR		Non-woven Geotextile	Terram 1000		Refer to NBS Section Q20, Clause 170A.
<b>JUNGLE MULCH SAFER SURFACING: CFH REQUIRING A DUAL LAYER</b>					
SURFACE COURSE	30	Recycled tyre buffing.	Shredded Rubber crumb surface		High grade, polyurethane bound, virgin rubber crumb safer surfacing. Free from fines & impurities such as steel, kevlar, polyester, fabrics, etc. Laid to BS EN 1177 requirements. Depth to increase to form edge as shown. Supply & install by PlaySmart.
BINDER COURSE	To CFH reqmts	Styrene Butadiene Rubber	SBR rubber crumb		Laid to depths compliant with BS EN 1177 fall space requirements.
SUB-BASE	150	Free Draining Granula Sub-base	Type 4/20 CGA	4-20	Coarse Graded Aggregate to BS EN 12424: 2002. Angular for good frictional interlock. Refer to NBS Section Q20, clause 215A.
GROUND STABILISATION		Geogrid	Tensar TriAx TX 160		Refer to NBS Section Q20, clause 170A. Install as per manufacturer's recommendations.
LOWER FABRIC SEPARATOR		Non-woven Geotextile	Terram 1000		Refer to NBS Section Q20, Clause 170A.
<b>EDGE RESTRAINT TO GRAVELLED FOOTPATH WITHIN OPEN SPACE AREAS</b>					
STEEL EDGING	2.5	Edge Restraint to EOS Path	100mm ProEdge BP1	N.A.	Galvanneal steel edging. Colour: Brown. 2.5mm thick x 100mm depth in 2.5m lengths. Joining: as per manufacturer's instruction.
REBAR 'PIN' SUPPORT	10 Ø	Edge Support for steel edging	10mm Ø Rebar, 600mm long	N.A.	Mild steel rebar 'pin'. Pin centres: install at every fourth ProEdge 'spike' & set 50mm below edge top.
STEEL 'SLEEVE'	Proprietary	Edge 'sleeve' for steel edging	Proprietary Product	N.A.	Proprietary 'sleeve' connector fitted to ProEdge 'spike' through which the steel rebar 'pin' is placed. Supply and fit as per 'pin' centres (above).
<b>ANCILLARY ITEMS: FOR GROUND IMPROVEMENT / REMEDIATION, CAPPING, SOFTSPOTS, DRAINAGE, WORK WITHIN TREE ROOT RPA, ETC.</b>					
CAPPING	TBC		TBC	TBC	Capping may be required to make good soft spots, raise levels etc. Refer to NBS Section Q20.
SUB-BASE IMPROVEMENT	N.A.	Mechanically Stabilised layers (M.S.L.)	Geocell 25/15	N.A.	Terram Cellular confinement system (Geocell 250mm cell @ x 150mm depth). Refer to NBS Section Q20, clause 170A.
WORK WITHIN TREE RPA	TBC	Mechanically Stabilised Layers	M.S.L.	N.A.	No Dig/reduced dig: Type 4/20 Coarse Graded Aggregate (CGA), w/ a cellular confinement system and/or a Tensar TriAx Geogrid, + fabric separators to promote gaseous exchange / root zone aeration.

## GENERAL NOTES

- JUNGLE MULCH TO BE SUPPLIED AND INSTALLED BY PLAYSMART UK, LTD.
- CONTRACTOR TO CONFIRM CRITICAL FALL HEIGHT (AND THEREFORE SUBGRADE FORMATION LEVEL & INSTALLATION DEPTHS) WITH PLAY EQUIPMENT & SAFER SURFACING MANUFACTURER PRIOR TO WORK COMMENCING ON SITE. CONTRACT ADMINISTRATOR TO BE NOTIFIED OF ANY DISCREPANCIES & INSTRUCTIONS/SOUGHT.
- IN SO FAR AS MUCH AS IS POSSIBLE, SMOOTH FLOWING LINES TO BE ACHIEVED ALONG ALL SURFACE TYPES & EDGES.
- JOINING OF STEEL EDGING: AVOID THE CREATION OF FINGER TRAPS.
- DAMAGE TO STEEL EDGING / CREATION OF SHARP EDGES: AVOID.
- CREATION OF TRIP HAZARDS: AVOID. REBAR TO BE INSTALLED TO SPECIFIED DEPTH BELOW METAL EDGE.
- FORMATION OF GRAVEL FOOTPATH CAMBER: USE ADDITIONAL CGA ABOVE MSL. ROLL & COMPACT AS PER MANUFACTURERS RECOMMENDATIONS.
- USE OF GEOTEXTILE FABRIC SEPARATORS: REQUIRED TO PREVENT MIGRATION OF FINES INTO BASE LAYERS (FROM SURFACE COURSE & GROUND BELOW). DO NOT OMIT.
- ALL SOIL DEPTHS / LEVELS / PROFILES ARE POST SETTLEMENT. CONTRACTOR TO ALLOW FOR ADDITIONAL TOPPING UP AS REQUIRED.
- BATTER BACK DOWN TO EXISTING FROM PATH EDGE. IN CIRCUMSTANCES WHERE A 3 IN 50 BATTER CANNOT BE REALISED, ACHIEVE SUITABLE BATTER & SMOOTH FLOWING CONTOURS AS PER TABLE. THEREAFTER SEEK INSTRUCTION.

TABLE 3. FOOTPATH TOPSOIL BATTERS

GRADIENT TO BE ACHIEVED	EDGE DATUM ABOVE EXISTING G.L. (mm)	DISTANCE FROM EDGE OF PATH (mm)
1 in 50*	30	1500
1 in 45	30	1200
1 in 40	30	1200
1 in 30	30	900
1 in 25	30	750
1 in 20	30	600
1 in 12	30	360
1 in 8	30	240

\* Preferred

## Notes

Issue: Drawn by David Jarvis Associates Limited (CROWN COPYRIGHT. ALL RIGHTS RESERVED 2017 LICENCE NUMBER 0100031). This drawing is for Planning purposes only - Do not use this drawing for Construction. The information contained in the drawing should be used as a guide to the final forms and finishes of the landscape scheme. Any revisions to be approved by the Client and Local Authority

Scaling: Do not scale this drawing. Use given dimensions only.

Setting out: refer to Engineers for information regarding setting out. In the event of discrepancy refer to Engineers in the first instance.

Services: Where possible these are identified on the drawings but, for the avoidance of doubt all service/utility locations should be considered indicative until identified on site. To ensure those services / utilities shown are current refer to the original survey provider or utilities designer, or Client for confirmation and further information regarding easements. In the event of new services being installed refer to the appointed Engineer.

Lighting: Refer to lighting engineers drawings.

Planting: Plant species are selected and located in line with consideration of the site conditions, NHBC guidelines and discussions with the Local Authority and design team. All plants and planting procedure to conform to the David Jarvis Associates Limited Landscape Specification that will accompany the Construction issue drawings. No species or plant location is to be varied without prior consent of the Landscape Architect.

Design Levels: Refer to Engineers where design levels are not shown.

CDM: Drawings to be read in conjunction with Designers risk assessment. Potential risks above that of those associated with the general construction typical to the drawing are identified below;

## Drawing Revision

Rev.	Date	Description	Drawn	Checked
P2	16/04/2018	Amended to CDC comments	GR	BS
P1	04/12/2017	First Issue.	GR	BS

## Status

**PLANNING**

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## Client

## ELMSBROOK (CREST A2D) LLP

## Project

## ELMSBROOK, BICESTER PHASES 3 & 4

## Drawing Title

## OPEN SPACE SURFACE FINISHES & DETAILS SHEET 3 OF 3

Scale: **1:20** Sheet Size: **A1** Date: **04/12/2017**

Drawing No.: **14790/5603** Revision: **P2**