



Project Name: Victoria Park Recreation Park

Proposed Surface Water Drainage
Management and Maintenance Plan

Date: 20th January 2025

Project Number: A9307

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Document Status and Signatures

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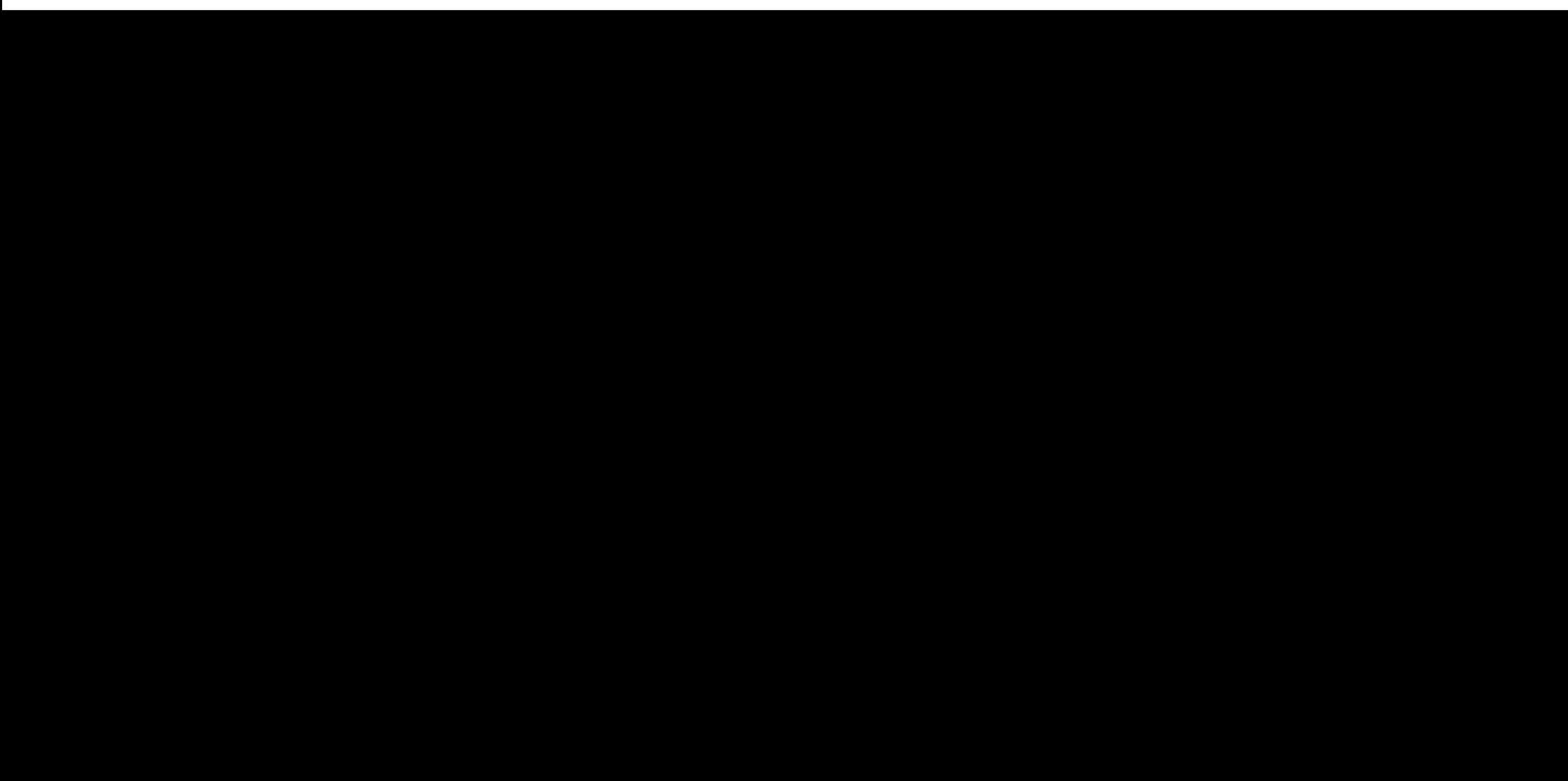
Appendices:

Appendix A – Drainage and Surfacing Drawings: layouts and details

Document Status and Signatures

Document Status		
Document Reference: A9307/SM/Drainage Management and Maintenance Plan		
Issue Date	Version	Rev
20/01/2025	Final	F1

File location: N:\Jobs\A9250-A9499\A9307\4 - Reports and Specifications\Drainage Maintenance Manuals\Victoria Park

Signed on behalf of CTP	
Prepared by:	
Reviewed by:	

1.0 Brief

- 1.1 On 13th May 2024 full planning permission (DM/24/0113) was granted for the ‘general improvements to existing access into the park from South Road including a new set of steps. Improvements to the existing playground including new play equipment and improved access’.
- 1.2 The full planning permission has a number of planning conditions attached for later discharge. CTP has been commissioned by Allen Scott on behalf of Mid Sussex District Council to prepare a surface water management and maintenance plan to discharge Condition 8 which states:

‘The development hereby permitted shall not commence unless and until details of the flood risk management measures on site have been submitted to and approved in writing by the local planning authority. The development shall not be brought into use, until all the approved flood risk management works have been carried out in accordance with the approved details. The details shall include a timetable for its implementation and a management and maintenance plan for the lifetime of the development which shall include arrangements for adoption by any public authority or statutory undertaker and any other arrangements to secure the operation of the scheme throughout its lifetime. Maintenance and management during the lifetime of the development should be in accordance with the approved details’.

- 1.3 This report should also be read in conjunction with CTP and Allen Scott’s proposed drainage and surfacing drawings:

Drawing No:	Drawing Title:
A9307 – 1510 – Rev P6	Engineering Layout
A9307 – 1515 – Rev P3	Drainage Details
A9307 – 1615 – Rev P4	Construction Details
741-250	Surfacing and Edging – North
741-251	Surfacing and Edging – South
741-355	Technical Details – Surfacing S1 to S4

- 1.4 This report has been prepared in accordance with the CIRIA C753 The SUDS Manual dated 2015.
- 1.5 CTP has no responsibility to any other parties to whom this report may be circulated, in part or in full, and any such parties rely on the contents of this report solely at their own risk.
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2.0 Timetable for its implementation

- 2.1 At the time of writing, the works are programmed to commence on site on the 1st September 2025 and completed by 31st Jan 2026.

3.0 Surface Water Strategy and proposed SuDs features

- 3.1 The surface water is to be treated, cleaned and attenuated through land drains with final discharge to the existing surface water drainage system on site.
- 3.2 As there are many different areas and types of construction proposed in this park, the surface water strategy varies depending on the type of construction and the proposed use of a particular area. The different types of SuDs are as follows:
- i) Land drainage – there is a land drain proposed along the new footway which runs from North and South of the park. Please refer to Appendix A.

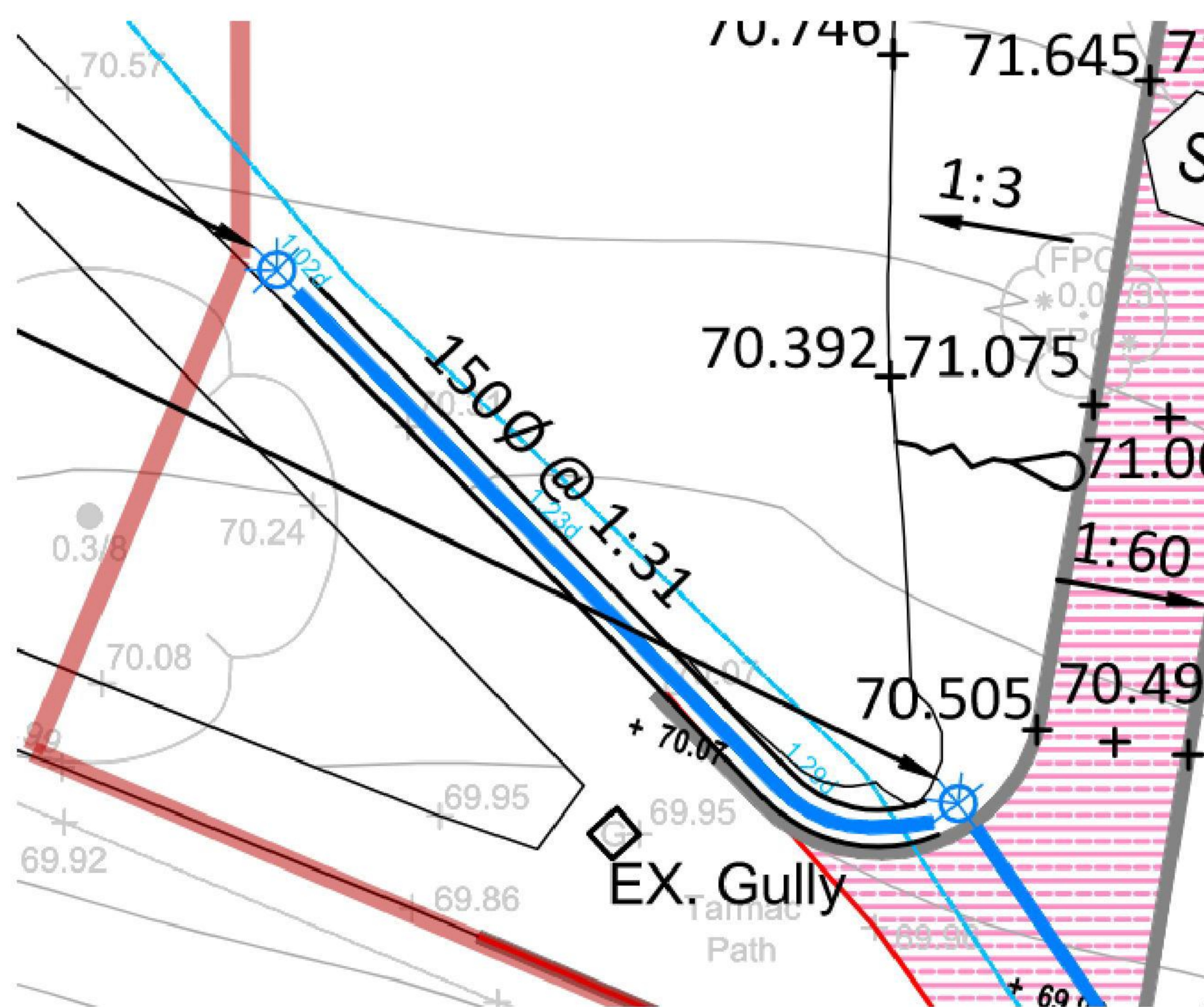


Fig 2 shows the proposed land drain at the north of the footway (in blue hatching)

The surface water which enters the land drain, eventually discharges to its nearest inspection chamber which flows down to the existing Southern Water manhole which runs the southern area of the park.

4.0 Maintenance of SuDS Components

4.0.1 This section provides general management and maintenance procedures for the various components comprising the proposed surface water drainage system serving the proposed development. This section has been produced in accordance with current best practice and the recommendations and guidance set out in the latest CIRIA C753 'The SuDS Manual'.

4.1 Catchpits, Inspection Chambers

- 4.1.1 Regular inspection of these chambers is required to ensure effective long-term performance of the system. Maintenance needs of the system should be monitored and schedules adjusted to suit the specific requirements of the development.
- 4.1.2 The following maintenance regime is recommended as a minimum but actions and frequencies should be adjusted to suit the specific requirements of the development. The flow control manufacturer’s specific recommendations should also be followed.

Maintenance Schedule	Required Works/Action	Frequency
Regular Maintenance	- Inspect chambers and identify incorrect operation. - Removal of sediment from pre-treatment components i.e. catchpits. - Removal of silt and debris from rain water gutters - Regular inspection by manufacturer	Monthly 3 monthly 6 monthly Annually

Fig 3 shows the Maintenance Schedule for Catchpits, Inspection Chambers

4.2 Drainage Ditch and surrounding areas:

The drainage ditch and surrounding areas will require regular maintenance in accordance with Figure 5 taken from C753 - The SuDs Manual:

Maintenance schedule	Required action	Typical frequency
Regular maintenance	Remove litter and debris	Monthly (or as required)
	Cut the grass – public areas	Monthly (during growing season)
	Cut the meadow grass	Half yearly (spring, before nesting season, and autumn)
	Inspect marginal and bankside vegetation and remove nuisance plants (for first 3 years)	Monthly (at start, then as required)
	Inspect inlets, outlets, banksides, structures, pipework etc for evidence of blockage and/or physical damage	Monthly
	Inspect water body for signs of poor water quality	Monthly (May – October)
	Inspect silt accumulation rates in any forebay and in main body of the pond and establish appropriate removal frequencies; undertake contamination testing once some build-up has occurred, to inform management and disposal options	Half yearly
	Check any mechanical devices, eg penstocks	Half yearly
	Hand cut submerged and emergent aquatic plants (at minimum of 0.1 m above pond base; include max 25% of pond surface)	Annually
	Remove 25% of bank vegetation from water's edge to a minimum of 1 m above water level	Annually
	Tidy all dead growth (scrub clearance) before start of growing season (Note: tree maintenance is usually part of overall landscape management contract)	Annually
	Remove sediment from any forebay.	Every 1–5 years, or as required
	Remove sediment and planting from one quadrant of the main body of ponds without sediment forebays.	Every 5 years, or as required
Occasional maintenance	Remove sediment from the main body of big ponds when pool volume is reduced by 20%	With effective pre-treatment, this will only be required rarely, eg every 25–50 years
Remedial actions	Repair erosion or other damage	As required
	Replant, where necessary	As required
	Aerate pond when signs of eutrophication are detected	As required
	Realign rip-rap or repair other damage	As required
	Repair / rehabilitate inlets, outlets and overflows.	As required

Figure 5 is Table 23.10 extracted from C753 – The SudS Manual

5.0 Conclusion

This report was commissioned to address planning condition 8 in the full planning permission Ref: DM/24/0113.

This report should be read in conjunction with the proposed drainage and surfacing drawings located in Appendix A.

The recommendations in this report should be followed in order to prolong the service life and efficiency of the system.

The future management company for the overall development must be informed of its responsibility for the maintenance of the SuDs as stated in this report.

If this regime is not adhered to, then it is likely that the various elements of the system may become silted. This will lead to the overall system having a reduced capacity and eventually surface water flooding will be experienced across the site and may also lead to overland flooding of adjacent areas and properties.

The following department is responsible for the future maintenance:

Mid Sussex District Council
Oaklands
Oaklands Road
Haywards Heath
West Sussex
RH16 1SS

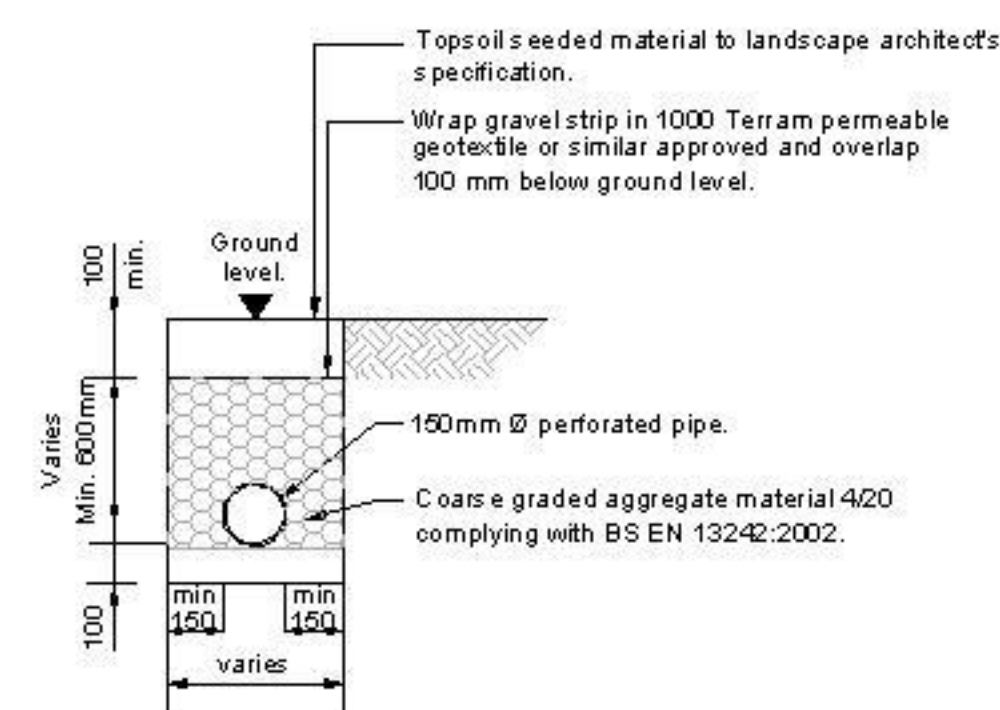


Appendix A - Drainage and Surfacing Drawings: layouts and details

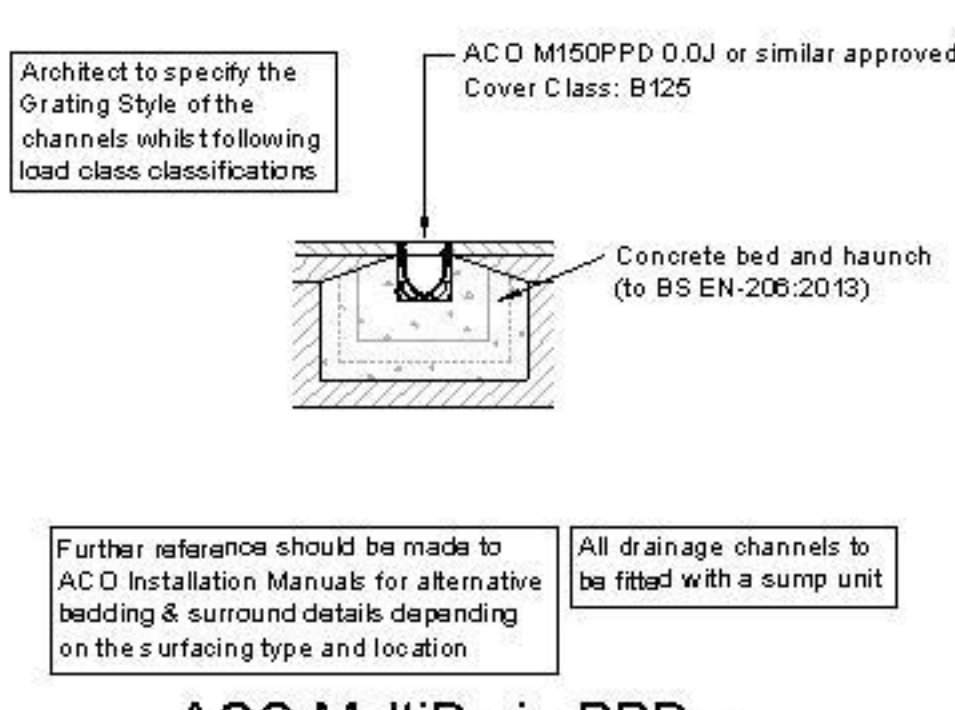
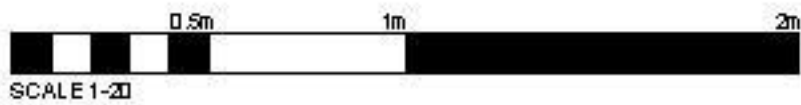


NOTES

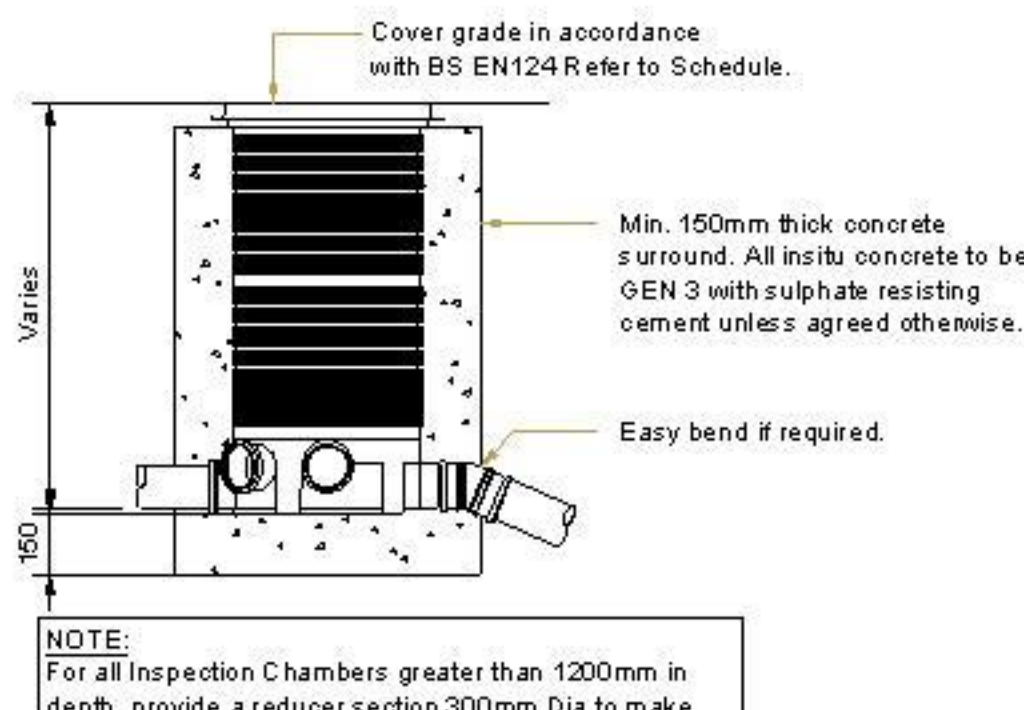
- DO NOT SCALE THIS DRAWING. WORK TO FIGURED DIMENSIONS ONLY. ALL DIMENSIONS ARE IN METRES (m) UNLESS NOTED OTHERWISE.
- This drawing is to be read in conjunction with all relevant Architects, Engineers and Specialists drawings and their respective Specifications.
- Always comply with the relevant British Standards, Codes of Practice and the Building Regulations.
- Any discrepancies between all working drawings, specifications and schedules of all disciplines to be immediately notified to CTP for clarification/correction prior to construction of relevant structure.
- It is assumed that all rear accesses are flush and the building boundary where indicated as such will be provided with a double damp proof course.



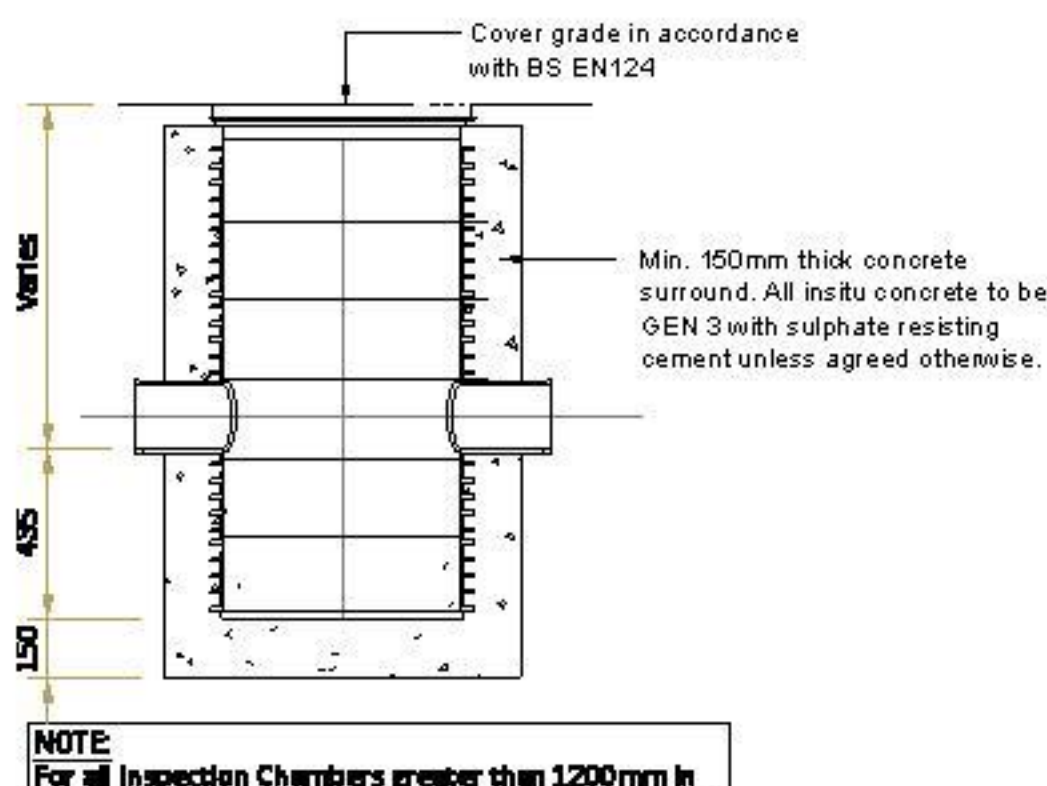
Typical Land Drain Detail
Scale: 1:20



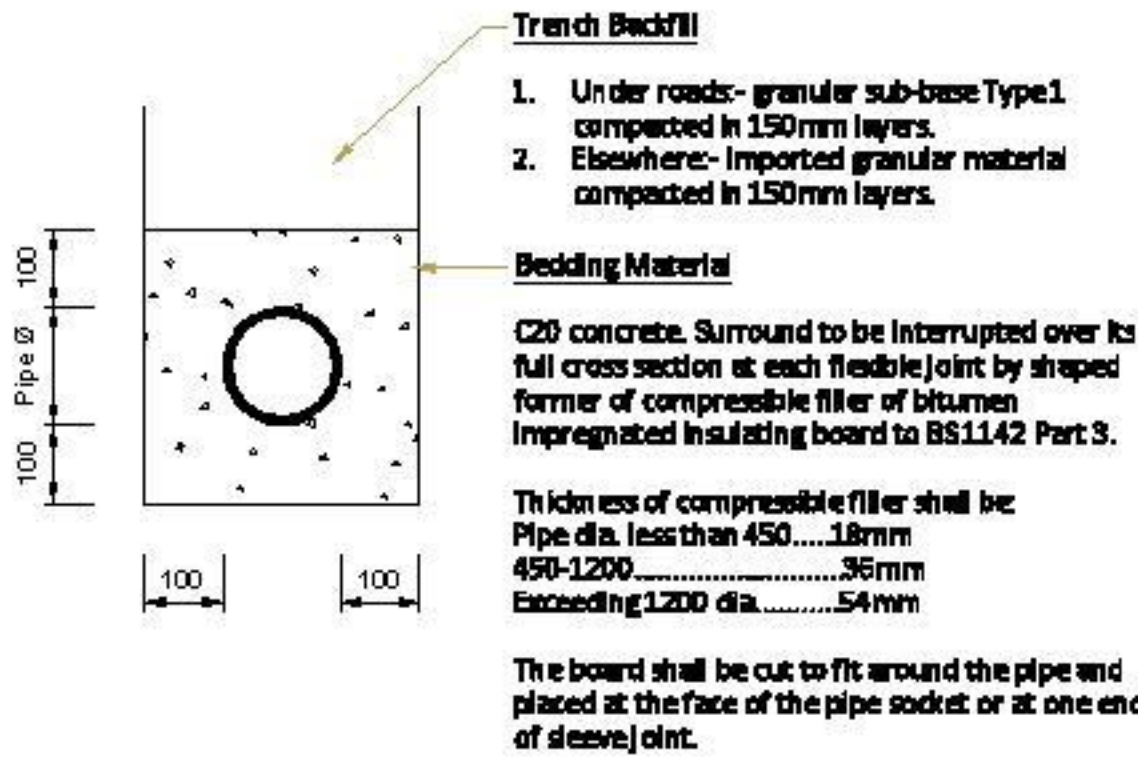
ACO MultiDrain PPD or similar approved Detail
Scale: 1:20



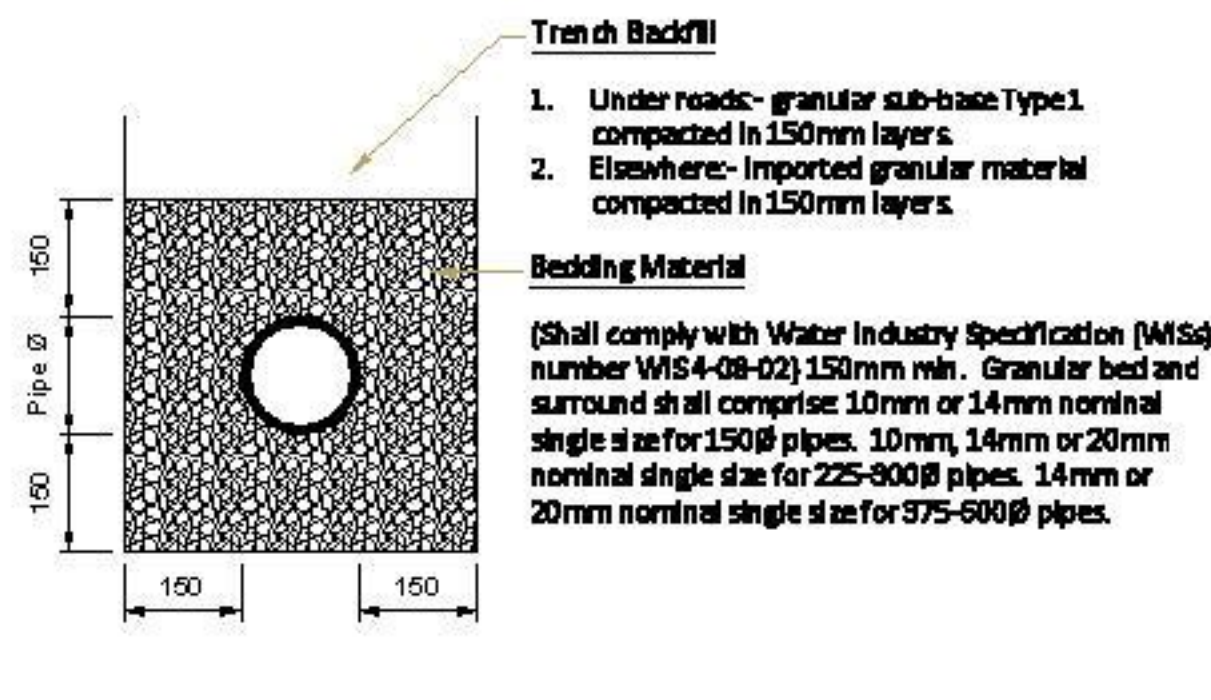
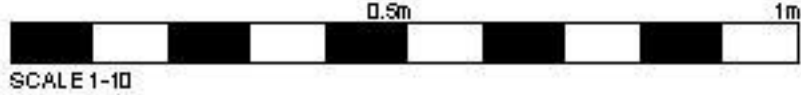
Typical Inspection Chamber
450mmØ Polypropylene



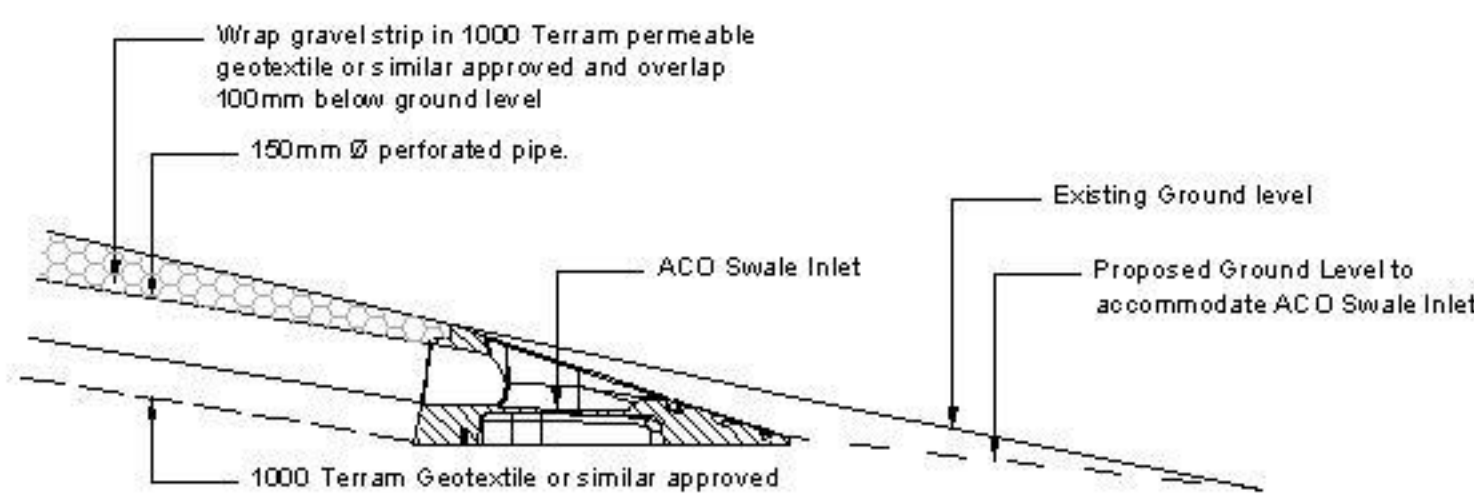
Typical Inspection Chamber with Catchpit
600mmØ Polypropylene
Scale 1:20



Concrete Protection (Type Z)
Rigid Pipes
Scale 1:30



Granular Surround (Type S)
Scale 1:30



Section for Land Drain Outfall
for Mt Noddy Park
MTS

PRELIMINARY

P3	01/11/2023	18.04.24	6V	AK
P2	01/11/2023	18.04.24	6V	AK
P1	01/11/2023	18.04.24	6V	AK



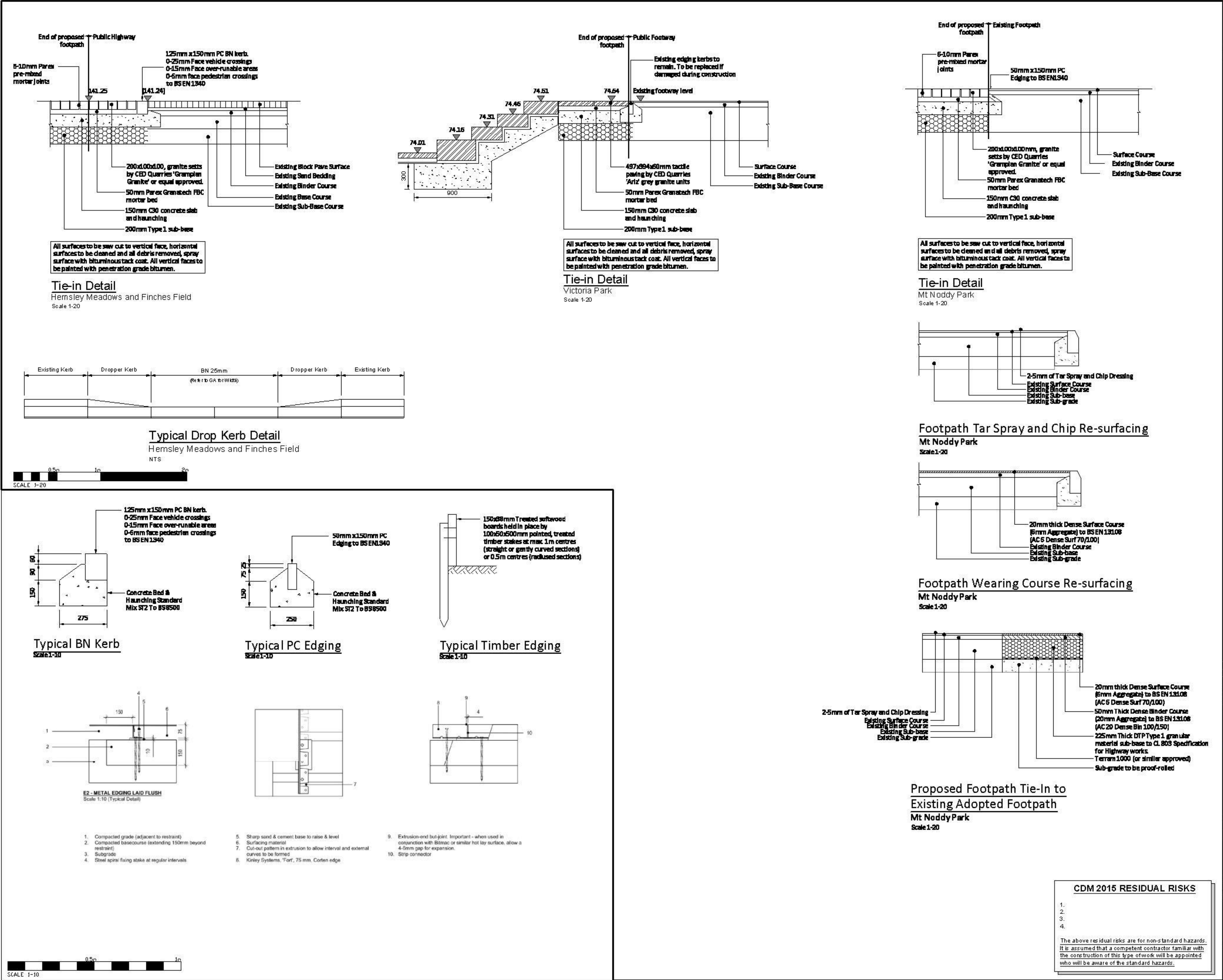
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UK: +44 (0)7732 740195
www.ctp-uk.com

Project Title
Mount Noddy Park & Victoria Park

Drawing Title
Drainage Typical Details

Drawing Number
A9307-1515

Scale
1:20
Sheet
@A1
Page
P3



NOTES

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- This drawing is to be read in conjunction with all relevant Architects, Engineers and Specialists drawings and their respective Specifications.
- All work to comply with the relevant British Standards, Codes of Practice and the Building Regulations.
- Any discrepancies between all working drawings, specifications and schedules of all disciplines to be immediately notified to CTP by e-mail or in person prior to construction of relevant structure.

PRELIMINARY

F1	AD080131 Tie-In Detail for Mt Noddy	17.01.25	SV	SM
F2	AD080131 Tie-In Detail for Mt Noddy	16.01.25	SV	SM
F3	AD080131 Tie-In Detail for Mt Noddy	03.12.24	SV	SM
F4	AD080131 Tie-In Detail for Mt Noddy	26.05.24	SV	AK

Author: SV
Date: JUL 2024
Discipline: CIVIL

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Project Title: Mid Sussex Parks

Drawing Title: S278 Construction Details

Project Number: A9307-1615

Version: @A1
Drawing Title: S278 Construction Details

P4



- LEGEND**
- S1a** Proposed asphalt - New binder and wearing course. Re-use existing sub-base (refer to engineers' details)
 - S1b** Proposed asphalt - Full build-up - Pedestrian Grade (refer to engineers' details)
 - S2a** Proposed asphalt - New binder and wearing course. Retain existing sub-base and build up to required levels as required with new MOT type 1 (refer to engineers' details and levels)
 - S2b** Proposed Tipulash Safety surface - New wearing course on existing sub-base. 40mm depth unless otherwise noted (refer to plan & for equipment details)
 - S3** Proposed Tipulash Safety surface - Full build up with 40mm depth surface course unless otherwise noted in details (refer to plan & for equipment details)
 - S4** Proposed natural stone steps (Refer to details and engineers specification / levels)
 - E1** Proposed in situ concrete Full build-up - Pedestrian Grade (refer to engineers' details)
 - E2** Proposed F.C.C. edge
 - E3** Proposed 150mm traditional timber edging
 - E4** Proposed granite set edging
 - Proposed cellular confinement built up within RPA (Cellular or seal approved) Refer to specification. Note: To also be read in conjunction with Arboricultural Report & engineers' details.

NOTES

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Rev	Date	By	Description	Drawn
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Drawing Title: For Information

Project: Victoria Park

Drawing Title: Surfacing & Edging Plan - South

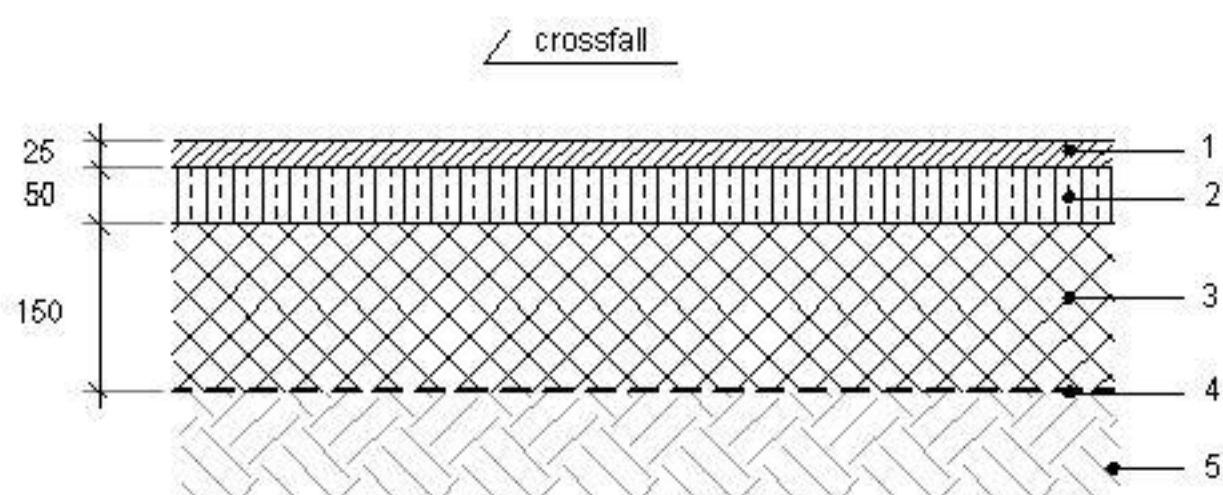
Client: Mid Sussex District Council

Scale: 1: 200 @ A2

Date: 11.01.23

Job No.: 23-741

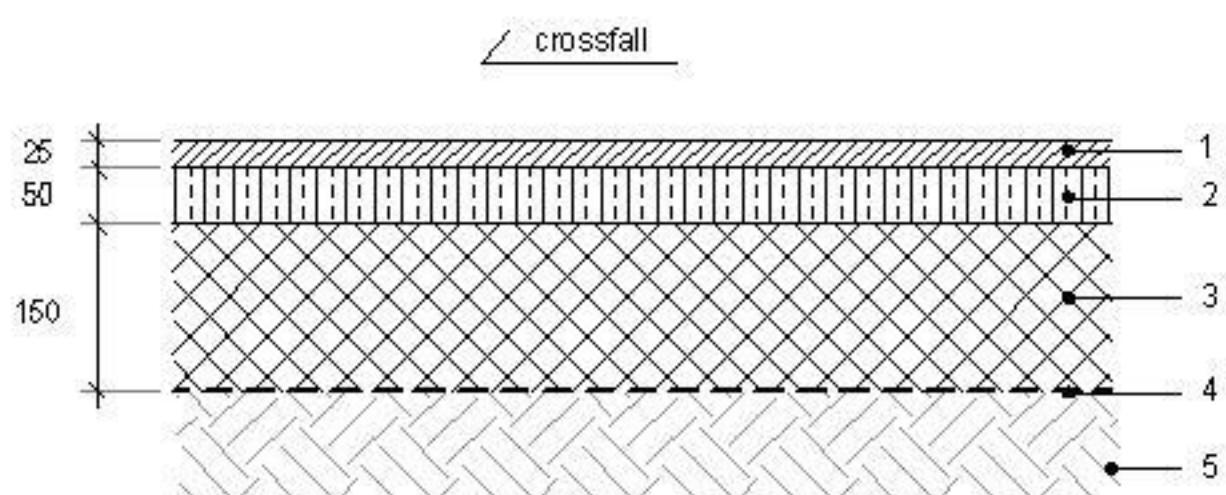
Drawing No.: 741-251



S1a - ASPHALT, NEWWEARING & BINDER COURSE (Pedestrian Grade)
Scale 1:10

- Wearing course:** 25mm AC 6 dense surf 100 / 150 to BS EN 13108-1 to engineers detail
- Binder course:** 50mm AC 20 dense bin 100 / 150 to BS EN 13108-1 to engineers detail
- Sub-base:** to be inspected
- Geotextile Layer:** to be inspected
- Sub-grade:** to be inspected

Note: Following surfacing works, allow for spreading imported topsoil, of good quality, with a light texture conforming to BS3882, to margins and grass seeding to reconcile levels and achieve uniform appearance to path edges.



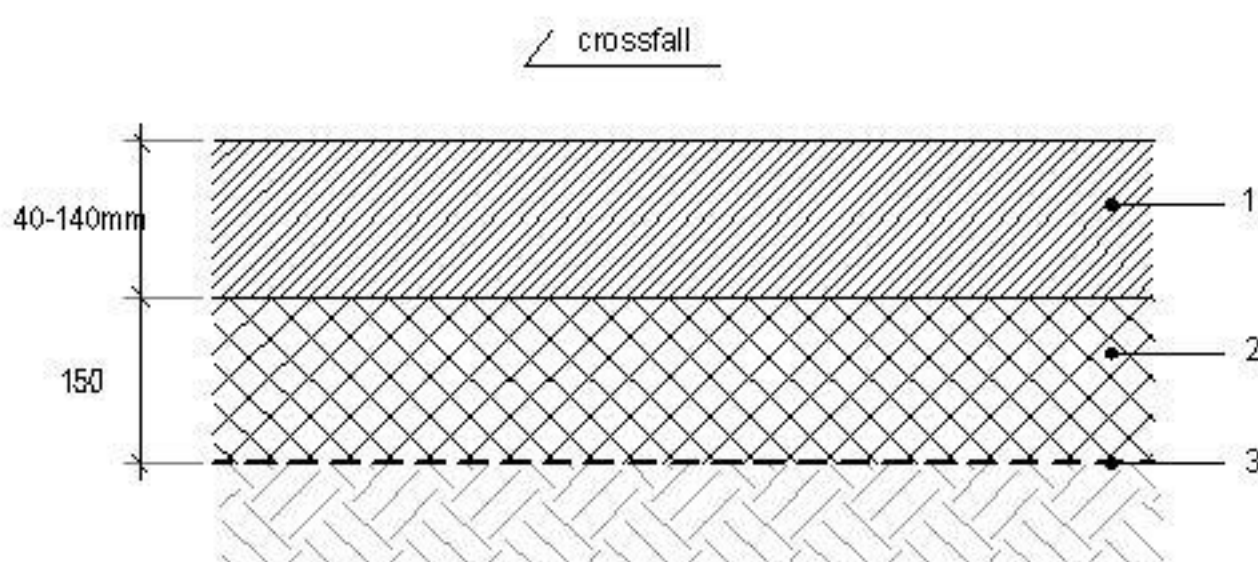
S1b / S1c - ASPHALT, FULL BUILD-UP (Pedestrian Grade)
Scale 1:10

- Wearing course:** 25mm AC 6 dense surf 100 / 150 to BS EN 13108-1 to engineers detail
- Binder course:** 50mm AC 20 dense bin 100 / 150 to BS EN 13108-1 to engineers detail
- Sub-base:** 150mm depth compacted MOT Type 1 sub-base to DOT Clause 803 (granite or limestone - recycled Type 1 not permitted) to engineers detail.

Note: Where S1c refer to engineers levels on required sub base depths to meet finished level

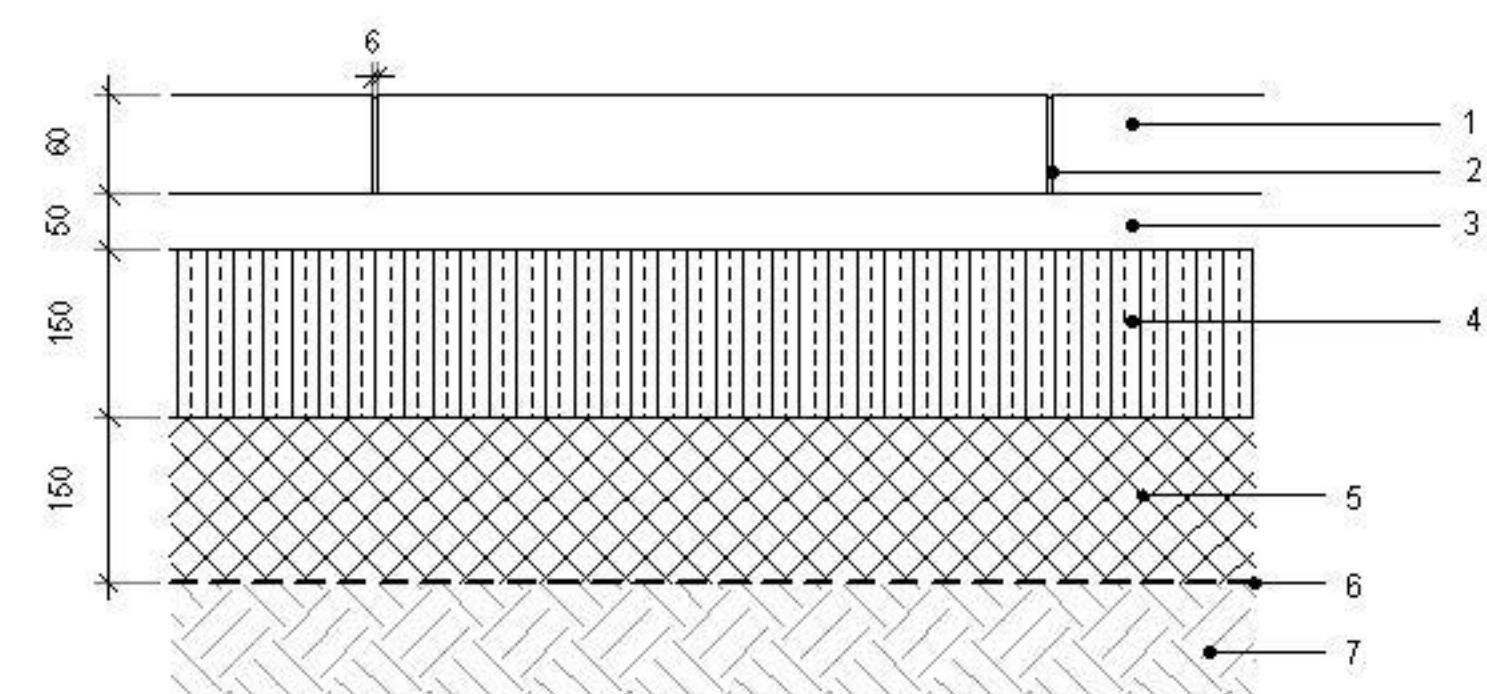
- Geotextile Layer:** Terram 1000 (or equal approved) geotextile membrane on proof-rolled formation level/sub-grade to engineers detail
- Sub-grade:** Well compacted & proof-rolled formation level/sub-grade to engineers detail

Note: Following surfacing works, allow for spreading imported topsoil, of good quality, with a light texture conforming to BS3882, to margins and grass seeding to reconcile levels and achieve uniform appearance to path edges.



S2a / S2b - Tiger Mulch,
Scale 1:10

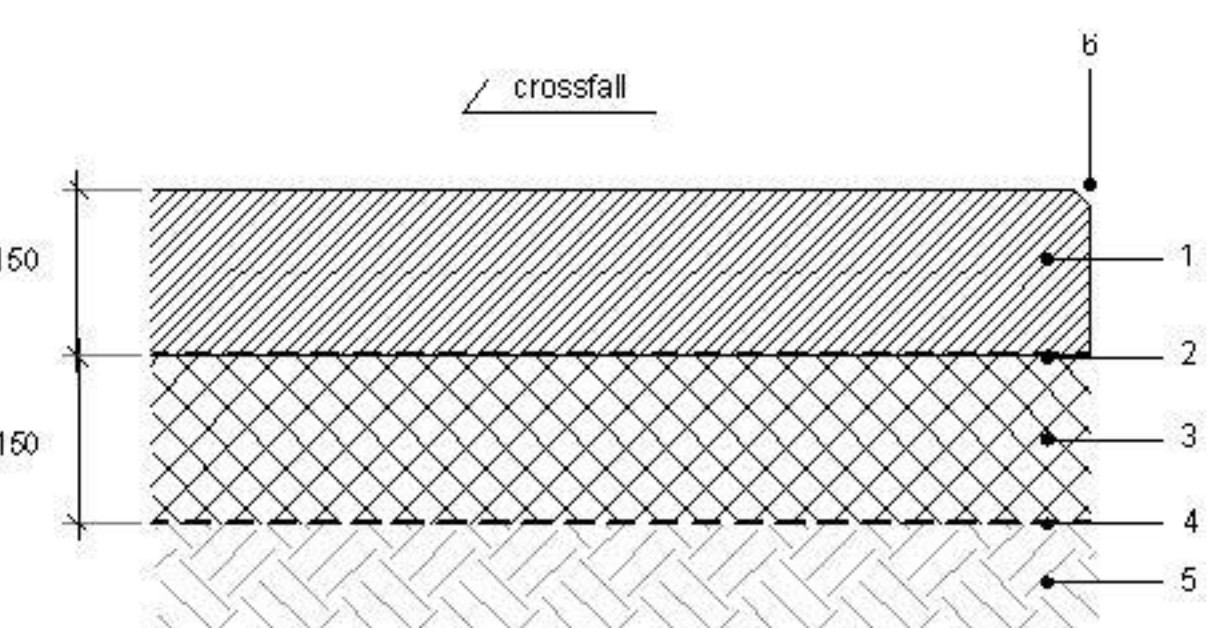
- Safety surface:** Tiger Mulch by Redlynch Leisure Ltd (installed by approved supplier to manufacturers instructions) Depth to be adjust to suit each play equipment CFH as Contractors Design. Contractor to submit proposals. Refer to Surfacing & Edging Dwg's for costing allowance on depths.
- Sub-base:** 150mm depth compacted MOT Type 1 sub-base to DOT Clause 803 (granite or limestone - recycled Type 1 not permitted) to engineers detail
- Geotextile Layer:** Terram 1000 (or equal approved) geotextile membrane on proof-rolled formation level/sub-grade to engineers detail
- Sub-grade:** Well compacted & proof-rolled formation level/sub-grade
- Edging:** Unless otherwise identified to be laid to new edging, Tiger Much to be finished with a 'toe' and rolled into adjacent grass (to suppliers detail) for costing purposes assume 150 x 150mm toe along grass edges.
Contractor to confirm final detail as part of CDP



S3 - GRANITE PAVING, FULL BUILD-UP
Scale 1:10

- Paving:** Sawn slabs grey granite (CED Quarries or equal approved). Sizes vary (Refer to Surfacing & Edging Plan, General Arrangement Plans SP-01 & SP-02 and Specification. Apply Parex Bond Plus Priming Mortar 'scrub coat' to improve adhesion.
- Joints:** 6mm Parex pre-mixed mortar joints (Parex 'Light Grey' EA103).
- Bedding layer:** 50mm Parex FBC mortar bed
- Base:** 150mm pavement quality concrete PAV 1 to BS 8500 to engineers detail
- Sub-base:** 150mm depth minimum (CBR 5%) compacted MOT Type 1 sub-base to DOT, Clause 803 (granite or limestone - recycled Type 1 not permitted) to engineers detail.
- Terram 1000 geotextile membrane on proof-rolled formation level/sub-grade to engineers detail.
- Sub-grade:** Well compacted & proof-rolled formation level/sub-grade to engineers detail

* Sub base thickness under CBR below 5%
CBR: 4% = 250mm, 3% = 275mm 2% = 300mm
For CBRs below 2% inform Design Engineer



S4 - INSITU CONCRETE FULL BUILD-UP (Pedestrian Grade)
Scale 1:10

- Concrete:** C30/ PAV1 concrete surface 150mm deep, 2 layers of A393 steel reinforcement mesh to BS 4483 strength grade B500a min cover 40mm and lap 350mm and dowels (to engineers detail)
- Polythene Sheet:** For costing allow for UHM Polythene sheet separation membrane 1.200 gauge, overlap edges by 300mm DTM to be laid onto a 30-50mm sand bed (to engineers detail)
- Sub-base:** 150mm depth compacted MOT Type 1 sub-base to DOT Clause 803 (granite or limestone - recycled Type 1 not permitted) to engineers detail
- Geotextile Layer:** Terram 1000 (or equal approved) geotextile membrane on proof-rolled formation level/sub-grade to engineers detail
- Sub-grade:** Well compacted & proof-rolled formation level/sub-grade to engineers detail
- Finish:** Even and consistent 'lightly' brushed finish to full edge.

Note: Following surfacing works, allow for spreading imported topsoil, of good quality, with a light texture conforming to BS3882, to margins and grass seeding to reconcile levels and achieve uniform appearance to path edges.

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Drawing Status: For Information
Project: Victoria Park
Drawing Title: Technical Details - Surfacing [S1 / S2 / S3 / S4]

Client: Mid Sussex District Council	Job No.: 23-741
Scale: as shown @ A2	Drawing No.: 741-355
Date: 09.06.23	