

2.5% DESIGN CBR

(REFER TO SITE INVESTIGATION FOR GROUND CONDITIONS)

FROST SUSCEPTIBLE MATERIAL WITHIN 450mm OF SURFACE TO BE REMOVED AND BACKFILLED

220
TOTAL
BUILD
BUP

SURFACE COURSE25mmAC 6 DENSE SURF 100/150 (REF PD 6691)

BINDER COURSE45mmAC 20 DENSE BIN 100/150 (REF PD 6691)

SUB-BASE150mm¹TYPE 1 SUB-BASE (MCDHW CLAUSE 803)

FOR CBR VALUES LESS THAN 4% ALLOW FOR ADDITIONAL GEOSYNTHETIC SEPARATOR TO PREVENT LOSS OF GRANULAR MATERIAL.

¹ SUB-BASE THICKNESS BASED ON MIN 2% CBR. FOR CBR VALUES BELOW 2% REFER TO ENGINEER FOR ADVICE ON SUB-GRADE IMPROVEMENT MEASURES.

INCREASE SUB-BASE TO 300mm IN MEWP ZONE (AREA TO BE CONFIRMED) MAXIMUM ALLOWABLE MEWP WEIGHT 3.5 TONNES - FOR HEAVIER MEWPS CONTACT ENGINEER

TYPE A1: ASPHALT PAVING FOOTWAY CONSTRUCTION
(Pedestrian loading only)
SCALE 1:20

2.5% DESIGN CBR

(REFER TO SITE INVESTIGATION FOR GROUND CONDITIONS)

FROST SUSCEPTIBLE MATERIAL WITHIN 450mm OF SURFACE TO BE REMOVED AND BACKFILLED

275
TOTAL
BUILD
BUP

SURFACE COURSE35mmULTI POROUS (10mm)

BINDER COURSE85mmULTI POROUS (32mm)

SUB BASE150mmCELLWEB TRP WITH CLEAN ANGULAR STONE TYPE 4/20

TREETEX GEOTEXTILE FOR SEPARATION

NOTE:

- SUB-BASE THICKNESS BASED ON THE EXISTING GROUND CBR% AND TYPE OF TRAFFIC ON THE SURFACE

IN ABEYANCE. BELLMOUTH SURFACE TBC WITH SUPPLIER AND ARBORICULTURALIST

TYPE A3C (P): POROUS CELLWEB ASPHALT PAVING CONSTRUCTION
(Cars & Light Vehicles & Occasional Heavy Goods Vehicles)
SCALE 1:20

2.5% DESIGN CBR

(REFER TO SITE INVESTIGATION FOR GROUND CONDITIONS)

FROST SUSCEPTIBLE MATERIAL WITHIN 450mm OF SURFACE TO BE REMOVED AND BACKFILLED

430
TOTAL
BUILD
BUP

BLOCK PAVING80mmMARSHALLS PRIORA PERMEABLE BLOCK PAVING

LAYING COURSE50mm2-6mm OGCR (OPEN GRADED CRUSHED ROCK)

MARSHALLS MT120 FILTRATION TEXTILE (OPTIONAL)

300mm 4/20mm OGCR (OPEN GRADED CRUSHED ROCK) WITH MIN 30% VOIDS.

MARSHALLS MM380 TANKING MEMBRANE

6mm JOINTS FILLED WITH 2-6mm PRIORA AGGREGATE

SUB-BASE STORAGE ZONE

NO INFILTRATION

(SEE DRAINAGE DRAWING)

TYPE P-B2 (P): BLOCK PAVING CONSTRUCTION (PERMEABLE)
(Cars & Light Vehicles, No Commercial Vehicles)
SYSTEM TYPE C
SCALE 1:20

2.5% DESIGN CBR

(REFER TO SITE INVESTIGATION FOR GROUND CONDITIONS)

FROST SUSCEPTIBLE MATERIAL WITHIN 450mm OF SURFACE TO BE REMOVED AND BACKFILLED

220
TOTAL
BUILD
BUP

SURFACE COURSE30mmAC 10 CLOSE SURF 40/60 (REF PD 6691)

BINDER COURSE60mmAC 20 DENSE BIN 40/60 (REF PD 6691)

SUB-BASE350mm¹TYPE 1 SUB-BASE (MCDHW CLAUSE 803)

FOR CBR VALUES LESS THAN 4% ALLOW FOR ADDITIONAL GEOSYNTHETIC SEPARATOR TO PREVENT LOSS OF GRANULAR MATERIAL.

TYPE A2: ASPHALT PAVING CONSTRUCTION
(Cars & Light Vehicles, No Heavy Goods Vehicles)
SCALE 1:20

2.5% DESIGN CBR

(REFER TO SITE INVESTIGATION FOR GROUND CONDITIONS)

FROST SUSCEPTIBLE MATERIAL WITHIN 450mm OF SURFACE TO BE REMOVED AND BACKFILLED

170

BLOCK PAVING50mm (M IN)REFER TO ARCHITECT FOR SPECIFICATION / LAYOUT CONFIGURATION.

LAYING COURSE50mmSHARP SAND BEDDING COURSE (REF: BS 7533-3 CATEGORY IV OF ANNEX D)

SUB-BASE200mm¹TYPE 1 SUB-BASE (MCDHW CLAUSE 803)

FOR CBR VALUES LESS THAN 4% ALLOW FOR ADDITIONAL GEOSYNTHETIC SEPARATOR TO PREVENT LOSS OF GRANULAR MATERIAL.

¹ SUB-BASE THICKNESS BASED ON MIN 2% CBR. FOR CBR VALUES BELOW 2% REFER TO ENGINEER FOR ADVICE ON SUB-GRADE IMPROVEMENT MEASURES.

TYPE P-B1: PAVIOR FOOTWAY CONSTRUCTION
CATEGORY IV
(Pedestrian loading only)
SCALE 1:20

2.5% DESIGN CBR

(REFER TO SITE INVESTIGATION FOR GROUND CONDITIONS)

FROST SUSCEPTIBLE MATERIAL WITHIN 450mm OF SURFACE TO BE REMOVED AND BACKFILLED

430
TOTAL
BUILD
BUP

RESIN BOUND GRAVEL20mmREFER TO ARCHITECT FOR SPECIFICATION / LAYOUT CONFIGURATION

BINDER COURSE50mmAC 20 OPEN BIN 160/220 (REF PD 6691)

PERMEABLE MEMBRANE/ GEOTEXTILE. E.G. TREETEX OR EKOTEX

OVERFILL25mmCLEAN ANGULAR STONE TYPE 4/20, FILLED 25mm OVER CELLWEB

CELLWEB75mmCELLWEB TRP WITH CLEAN ANGULAR STONE TYPE 4/20

TREETEX GEOTEXTILE FOR SEPARATION OSA

NOTE:

- SUB-BASE COULD BE REQUIRED DEPENDING ON THE EXISTING GROUND CBR% AND TYPE OF TRAFFIC ON THE SURFACE

TYPE RB1 (C): POROUS CELLWEB RESIN BOUND FOOTWAY CONSTRUCTION
(Pedestrian loading only)
SCALE 1:20

2.5% DESIGN CBR

(REFER TO SITE INVESTIGATION FOR GROUND CONDITIONS)

FROST SUSCEPTIBLE MATERIAL WITHIN 450mm OF SURFACE TO BE REMOVED AND BACKFILLED

540
TOTAL
BUILD
BUP

SURFACE COURSE30mmSMA 10 SURF 40/60 (REF PD 6691)

BINDER COURSE60mmAC 20 DENSE BIN 40/60 (REF PD 6691)

BASE COURSE100mmAC 32 BASE 40/60 (REF PD 6691)

SUB-BASE350mmTYPE 1 SUB-BASE (MCDHW CLAUSE 803)

FOR CBR VALUES LESS THAN 4% ALLOW FOR ADDITIONAL GEOSYNTHETIC SEPARATOR TO PREVENT LOSS OF GRANULAR MATERIAL.

TYPE A3: ASPHALT PAVING CONSTRUCTION
(Cars & Light Vehicles & Occasional Heavy Goods Vehicles)
SCALE 1:20

2.5% DESIGN CBR

(REFER TO SITE INVESTIGATION FOR GROUND CONDITIONS)

FROST SUSCEPTIBLE MATERIAL WITHIN 450mm OF SURFACE TO BE REMOVED AND BACKFILLED

170

BLOCK PAVING50mm(MIN)REFER TO ARCHITECT FOR SPECIFICATION/LAYOUT CONFIGURATION REFER TO BLOCK PAVING SUPPLIER FOR CONFIRMATION OF SUITABILITY FOR LOADING

LAYING COURSE50mmSHARP SAND BEDDING COURSE (REF: BS 7533-3 CATEGORY III OF ANNEX D)

SUB-BASE300mmTYPE 1 SUB-BASE (MCDHW CLAUSE 803)

ALLOW FOR SUITABLE GEOTEXTILE SEPARATING MEMBRANE WHERE SUBGRADE CBR 2% OR LESS OR WHEN LAYING IN ADVERSE WEATHER CONDITIONS.

TYPE P-B2: PAVIOR CONSTRUCTION
CATEGORY IIIB
(Cars & Light Vehicles, No Commercial Vehicles)
SCALE 1:20

125x150mm HYDRAULICALLY-PRESSED PRECAST CONCRETE BULLNOSED KERB 25(UNO)

125x150mm HYDRAULICALLY-PRESSED PRECAST CONCRETE CHANNEL

NOTE:
1. VEHICULAR CROSSING UPSTAND TO BE 25mm
PEDESTRIAN CROSSING UPSTAND TO BE 0-6mm

BULL NOSE KERB DETAIL (BN 25mm AND BN FLUSH)
SCALE 1:10

CHANNEL BLOCK KERB DETAIL (CS2)
SCALE 1:10

50x150mm HYDRAULICALLY-PRESSED PRECAST CONCRETE EDGING KERB

125x255mm HYDRAULICALLY-PRESSED PRECAST CONCRETE HALF BATTERED KERB

NOTE:
1. ALL KERBS TO BE TO BS EN1340
2. ALL KERBS TO BE BEDDED ON CONCRETE GRADE ST4
3. ALL KERBS TO BE BACKED WITH CONCRETE GRADE ST1

FOOTWAY EDGING DETAIL (EF)
SCALE 1:10

HALF BATTERED KERB DETAIL (HB2)
SCALE 1:10

FROST SUSCEPTIBLE MATERIAL WITHIN 450mm OF SURFACE TO BE REMOVED AND BACKFILLED

TO BE USED IN RPs. NO DIG, OTHER THAN STRIPPING OF GROUND COVER/ VEGETATION BY HAND. REFER TO MIDDLEMARCH ARBORICULTURAL METHOD STATEMENT BEFORE INSTALLATION.

DETAIL CONFIRMED WITH GEOSYN. TBC WITH ASPHALT SUPPLIER

KEY PLAN

NOTES

1. All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.

2. The DWG file is issued for the purposes of coordination only and do not represent formal drawing issue and are not to be reprinted in any form. Formal issue of drawings is via DWG, Adobe PDF files and/or hard copies and their associated information issue sheets.

3. Note that all care has been taken with the export of DWG files and their content, but we recommend that you make due dimensional checks before using any DWG file information. Any errors found are to be reported to Hydrock immediately.

4. CBR values in accordance with SI report, contractor to inform engineer of any soft spots during construction.

5. In the event of any contradiction between this drawing and the specification, then the contractor shall seek clarification from the engineer before proceeding.

6. All in-situ concrete and precast concrete components to be manufactured using sulphate resisting portland cement (srpc) to BS 4027, if required, subject to soil conditions.

7. Refer to landscape architects drawings for extent of external surfaces and kerbing.

8. Drainage trenches within traffic areas and footways or in areas to be adopted shall be backfilled using granular type 1 material up to the road formation level.

9. Old drainage or service trenches to be excavated are to remove soft or degraded material and backfilled with specified granular sub-base material.

10. Subgrade variation: if material appears to vary from anticipated conditions, or if there are extensive soft spots, test subgrade CBR to BS 1377-4 OR BS 1377-9.

11. Soft or damaged areas to be excavated and replaced with sub-base material, compacted in layers 300 mm (maximum) thick.

12. Final excavation to formation / subformation level to be carried before compaction of subgrade.

13. Excavation or compaction not to be carried out in wet conditions when the subgrade may be damaged or destabilized.

14. Compact thoroughly by roller or other suitable means, adequate to resist subsidence or deformation of the subgrade during construction and of the completed roads / pavings.

15. Particular care to be taken when compacting fully at intrusions, perimeters and where local excavation or backfilling has taken place.

16. Subgrade improvement layer (capping) to Highways Agency 'Specification For Highway Works', Table 6/1. Placed and compacted to Highways Agency 'Specification For Highway Works', Table 6/1, Clauses 612 and 613.3, 613.8, 613.9, 613.10 and 613.13.

17. Depth of frost susceptible material below final surface of paving to be (minimum) 450mm.

18. Do not place fill on frozen surfaces. remove material affected by frost. Replace and re-compact if not damaged after thawing.

19. Subgrades and sub-base should be protected to prevent degradation by construction traffic, construction operations and inclement weather.

20. Type 1 unbound mixture for sub-base to Highways Agency 'Specification For Highway Works', Clause 801 and 803.

21. Type 1 to be spread and levelled in 150 mm maximum layers, each layer thoroughly compacted.

22. At drainage fittings, inspection covers, perimeters and where local excavation and backfilling has taken place particular care should be taken to ensure material is fully compacted.

STAGE 4 ISSUE

POS

O.LAUNCHBURY

02/10/24

M.STEWART

02/10/24

J.MAGEE

02/10/24

DRAFT STAGE 4 ISSUE

PO4

O.LAUNCHBURY

18/09/24

M.STEWART

18/09/24

J.MAGEE

18/09/24

STAGE 3B ISSUE

PO3

J.SHIMMIN

04/09/23

D.WEBB

04/09/23

J.MAGEE

04/09/23

RESIN BOUND, TACTILE PAVING AND CELLWEB DETAILS ADDED

PO2

J.SHIMMIN

04/07/23

D.WEBB

04/07/23

J.MAGEE

04/07/23

REVISION NOTES/COMMENTS

REV

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

Hydrock

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CLIENT

READING BOROUGH COUNCIL

PROJECT

DWYER ROAD

TITLE

EXTERNAL DETAILS

HYDROCK PROJECT NO.

C-26888-C

SCALE @ A1

AS SHOWN

STATUS DESCRIPTION

STAGE 4

S4

DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)

26888-HYD-00-ZZ-DR-C-7300

REVISION

P05