











NOTES Ctd.

14. GRAIED LINEAR DRAINAGE CHANNEL SYSTEMS SHALL BE OF 100mm, 150mm OR 200mm NOMINAL INTERNAL WIDTH, AS SPECIFIED ON THE DRAWINGS, MOLIFACTURE FROM HOST STRENGTH POLYMER CONCRETE BY A STATE OF THE STA

- 5. SLOTIED LINEAR DRAINAGE CHANNEL SYSTEMS SHALL BE CHOSEN ACCORDING TO THE LOAD CLASS REQUIRED AND MANUFACTURED FROM HIGH STRENGTH POLYMER CONCRETE INCORPORATING A 10mm WIDE CENTRALLY POSITIONED SLOT. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
- ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

 6. PRECAST KERRES SHALL BE LIDA JAND LEVELLED IN ACCORDANCE WITH BY
 7533: PART 4. A RAISED LIP OF Z5mm SHOULD BE USED FOR
 VEHICULAR ENTRANCES AND 0-6mm FOR PEDESTRIAN CROSSINGS.

 7. IN STIU KERBS SHALL COMPLY WITH THE REQUIREMENTS OF BS 5931.
 KERBS SHALL BE PROTECTED FROM THE EFFECTS OF ADVERSE WEATHER
 UNTIL CURED. A RAISED LIP OF Z5mm SHOULD BE USED FOR VEHICULE
 ENTRANCES AND 0-6mm FOR PEDESTRIAN CROSSINGS.

NOTE: BEFORE PAVERS / PAVEMENT WORKS ARE COMMENCED THE CONTRACTOR IS TO ESTABLISH IF THESE WORKS ARE TO BE TAKEN IN CHARGE BY THE LOCAL AUTHORITY, IF THIS IS THE CASE THE CONTRACTOR IS TO GET APPROVAL FROM THE LOCAL AUTHORITY FOR THE DETAILS SHOWN ON THIS DRAWING AND ESTABLISH INSPECTION AND TESTING REQUIREMENTS BEFORE COMENCING THE WORK NOTES Ctd.

D. CLAY AND CALCIUM SILICATE PAVERS SHOULD COMPLY WITH IS EN 1344 TYPE PB WITH CHAMFERS, 200 x 100 x 65mm FOR TRAFFICKED AREAS & 50mm THICK FOR PEDESTRIAN AREAS

HORIZONTAL INTERLOCK SHOULD BE GIVEN TO THE PAVING EITHER BY THE USE OF SHAPED BLOCKS, OR BY LAYING RECTARGULAR BLOCKS IN HERRINGBORE FASHION. AT THE EDGE OF THE PAVEMENT, RESTRANT SHOULD BE PROVIDED, IN ORDER TO PREVENT THE PAVEMENT, RESTRANT SHOULD BE PROVIDED, IN ORDER TO PREVENT THE PAVEMENT AND THE LAYING COURSE FROM MIGRATING OUTWARDS AND LOSING INTERLOCK. CLAY, CALCIUM SILICATE & CONCRETE BLOCK PAVERS SHOULD BE LAID II ACCORDANCE WITH BS 7533-3.

IF THE LAYING COURSE MATERIAL BECOMES SATURATED AFTER PLACEM THEN IT SHOULD BE REMOVED AND REPLACED WITH LAYING COURSE MATERIAL IN A COMBITION SUITABLE FOR THE BLOCK LAYING OPERATION ALTERNATIVELY THE LAYING COURSE CAN BE LEFT IN PLACE UNTIL IT DRIES SUPPRIENTLY TO ALLOW BLOCK LAYING TO PROCEED.

. JOINTS BETWEEN PAVERS TO BE LAID TIGHT (2mm to 5mm WIDE) AND FILLED WITH FINE SAND 'Gf85 0/1 (FP)' AS PER IS EN 12620.

NOTES THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS &

ARCHITECT'S DRAWINGS.FIGURED DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT. - 'ASK'.

NOTES

ALTERNATIVE BASE COURSE MATERIAL:

AS AN ALTERNATIVE TO ASPHALTIC CONCRETE BASE COURSE THE CONTRACTOR CAN USE AN STANDARD CONCRETE MIX "STZ" 'LEAN MIX BASE COURSE 150mm THICK. STANDARD CONCRETE MIX "STZ" SHALL CONFORM TO IS 206-1, BS 8500-1, BS 8500-2 & IS EN 13877-1 CURING OF LEAN-MIX ROAD BASE SHALL BE BY BUTUMINOUS SPRAYIN TO CLAUSE 920 NRA SPECIFICATION FOR ROAD WORKS.

USE OF BASE COURSE FOR CONSTRUCTION TRAFFIC: THE BASE COURSE MAY BE USED FOR CONSTRUCTION TRAFFIC PROVIDED IN INCREASED IN THICKNESS BY 50mm AND SURFACE DRESSED. SHOULD BE CARRIED OUT IN ACCORDANCE WITH CLAUSE 919 AND 922 OF THE NRA SPECIFICATION FOR ROADWORKS. BINDER SHOULD BE CUTBACK BITIMEN OR GATIONIC BITUMEN OR CONTINUE TO THE PROVIDENCE OF THE SPECIFICATION. OTHER BINDERS MAY BE USED, SUBJECT TO APPROVIAL.

CUTBACK BITUMEN SHOULD BE OF THE APPROPRIATE GRADE SPECIFIED.
CATIONIC BITUMEN EMULSION SHOULD HAVE A NOMINAL BITUMEN CONTE
OF 70%. THE BINDER SHOULD BE SPREAD AT THE APPROPRIATE RATE
SPECIFIED. CHIPPINGS SHOULD BE OF A SINGLE SIZE (AS APPROVED BY
THE LOCAL AUTHORITY), CUBICAL IN SHAPE AND SHOULD COMPLY WITH
HE REQUIREMENTS OF TABLE 24 OF CLAUSE 919 OF THE NRA
SPECIFICATION FOR ROAD WORKS.

DEPTH OF SUB-BASE & CAPPING LAYER: THE DEPTH OF THE SUB-BASE AND CAPPING LAYERS WILL VARY WITH THE SUBGRADE STRENGTH, AS INDICATED BY THE CBR TEST RESULTS. THE THICKNESS OF THE SUB-BASE LAYER SHOULD BE 150mm FOR ALL FORMS OF ROADWAY CONSTRUCTION.

THE THICKNESS OF THE CAPPING LAYER WILL VARY WITH THE CBR VALUE AS INDICATED IN TABLE 3.1 BELOW. IF THE CBR VALUE OF THE SUBGRADE EXCEEDS 15%, NO CAPPING LAYER IS REQUIRED. SEE FIGURE 4.1 IN PART 2A, HD25-26 OF NRA DESIGN MANUAL FOR ROADS AND REPROPERTY.

BRIDGES.

TABLE 3.1 CAPPING LAYER - MINIMUM CONSTRUCTION THICKNESS

LOWEST SUBGRADE
CBR
MINIMUM CAPPING LAYER
THICKNESS
(%) (mm) * LESS THAN 2 (SEE FOOTNOTE)
2->5 450->250

* FOR SUBGRADES WITH A CBR OF LESS THAN 2%, A GEOTEXTILE SEPARATOR (e.g. TERRAM 1000) SHOULD BE USED AND SPECIALIST ADVICE SOUGHT REGARDING MINIMUM THICKNESS. IT THE CONTRACTOR PROPOSES TO USE THE SUB-BASE FOR CONSTRUCTION TRAFFIC HE SHOULD SEEK APPROVAL FROM THE ENGINEE TO DO SO, SUCH APPROVAL WILL ONLY NORMALLY BE GIVEN ON CONDITION THAT THE SUB-BASE THICKNESS IS INCREASED. TYPICALLY FO. CBR VALUES 4 4% THE SUB-BASE THICKNESS WILL HAVE TO BE INCREASED BY 150mm. FOR CBR VALUES > 4% AN INCREASE OF 80mm WILL BE SUFFICIENT.

MATERIAL SPECIFICATION FOR SUB-BASE AND CAPPING LAYER:

SUB-BASE MATERIAL SHOULD COMPRISE TYPE B GRANULAR MATERIAL, IN ACCORDANCE WITH CAUSE 804 OF THE SPECIFICATIONS FOR ROADWORKS. THE MATERIAL SHOULD LIE WITHIN THE GRADING LIMITS SET OUT IN TABLE 4.1 BELOW.

| ISO SIEVE SIZE (mm) | OVERALL GRADING RANGE | SUPP, DECLARED VALUE GRADING RANGE | TOLERANCI |
|------------------------|--------------------------|---------------------------------------|-----------|
| 63 | 100 | NR | NR |
| 31.5 | 80-99 | NR | NR |
| 16 | 55-85 | 63-77 | +/-8 |
| 8 | 35-65 | 43-57 | +/-8 |
| 4 | 22-50 | 30-42 | +/-8 |
| 2 | 15-40 | 22-33 | +/-7 |
| 1 | 10-35 | 15-30 | +/-5 |
| 0.5 | 0-20 | 5-15 | +/-5 |
| 0.063 | 0-7 | NR | NR |

PARTICLE SIZE DISTRIBUTION SHOULD BE DETERMINED BY THE WASHING AND SIEVING METHOD OF IS EN 933-1. ALL MATERIAL USED SHOULD BE FROST RESISTANT.

MATERIAL PASSING THE 0,425mm SIEVE, WHEN TESTED IN ACCORDANCE WITH BS 1377-2, SHOULD BE NON-PLASTIC. THE MATERIAL SHOULD HAVE A TEN PERCENT FINES VALUE OF 100kN, OR MORE, WHEN TESTED IN ACCORDANCE WITH IS EN 933-1. THE SUB-BASE SHOULD BE LAID AND COMPACTED TO THE REQUIREMENT OF CLAUSE 802 OF THE NRA SPECIFICATION FOR ROADWORKS, WITHOUT DRYING OUT, OR SEGREGATION.

SELECTED DEMOLITION MATERIALS WHICH MEET THE ABOVE REQUIREMENTS MAY ALSO BE USED, SUBJECT TO APPROVAL.

CONCRETE FOR ROAD PAVEMENTS:

PAVING QUALITY CONCRETE SHOULD BE PAV2 MIX (AIR ENTRAINED CONCRETE) MADE FROM NATURAL AGGREGATES, CEMENT, WATER AND AIR ENTRAINING ACENT COMPLYING WITH IS 200-1, BS 8500-1, BS 8500-2, EN 13877-2 AND THE REQUIREMENTS OF SERIES 1000 OF THE NRA SPECIFICATION FOR ROAD WORKS.

| TABLE 5.1 CONSTITUENTS FO | R PAVING QUALITY CONCRETE |
|-------------------------------|---------------------------|
| MINIMUM CEMENT CONTENT | 340kg/m³ |
| MAXIMUM FREE WATER/CEMENT RAT | 0.45 |
| MAXIMUM AGGREGATE SIZE | 20mm |
| MINIMUM STRENGTH CLASS | C32/40 |
| AIR CONTENT | 4.5 % |
| SLUMP CLASS | S3 |

| ONG MESH REINFORCEMENT TO BS 4483 | MAXIMUM SPACING (m) OF CONTRACTION JOINTS |
|--------------------------------------|--|
| C283 | 15m |
| C385 | 20m |
| | |

DOWEL BARS AND THE BARS SHOULD BE BESOED STEEL, COMPLYING WITH SEEN 13877-3 AND SHOULD BE FREE FROM OIL DRIT, LOGGE SOLLE AND RUST, DOWEL BARS SHOULD BE STRAGHT, FIRE OF BURRS AND OTHER IRRECULARITIES, WITH THE SLOIDING BOD SAWN, DOWEL BARS SHOULD BE DEBONDED OVER THEIR LENGTH WITH A TOUGH, DURABLE FLASTIC SHEATH OF AVERAGE THICKNESS NOT GREATER THAN 1.25mm. FOR EXPANSION JOINTS, THE EXPANSION SPACE AVAILABLE IN THE WATERPROOF CAP SHOULD BE 10mm GREATER THAN THE THICKNESS OF THE JOINT FILLER BOARD.

JOINT GROOVES SHOULD BE SEALED WITH A COLD APPLIED JOINT-SEALING COMPOUND COMPLYING WITH BS 5212 TYPE N. THE FINISHED SUFFACE OF THE SEAL SHOULD BE 3mm BELOW THE SURFACE LEVEL OF THE CONCRETE.

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PLANNING



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