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CONSTRUCTION NOTES:

- All works shall be carried out in accordance with 'The standard Specification for Highway works' and Local Highways Authorities Specification unless otherwise instructed by the local inspecting officer.
- Refer to series 900 of Volume 1 of the Manual of Contract Documents for Highway Works for road pavements and bituminous bound material specifications.
- The vertical joint between existing and new surfacing shall be painted with 100 pen bitumen.
- Cationic bituminous emulsion shall be applied to all surfaces receiving H.R.A., D.B.M. and Thin Surfacing.
- The contractor is to provide and maintain a pedestrian route through the works at all times defined by suitable barriers and lights where necessary. The contractor is obliged to obtain necessary road opening notices or licenses prior to commencement of the works.
- All statutory undertakers covers and frames to be lifted to suit new carriageway levels prior to surfacing.
- All paving details to be into existing. Paving not to be laid in conditions deemed too cold.
- Before proceeding with the construction work, the setting out lines are to be agreed with the Engineer.
- No limestone aggregate to be used where binder course may form a temporary running lane to public vehicles.
- Final surfacing should not be laid until all the works by Statutory Undertakers are complete.
- When new kerbs are to be installed, a 300mm carriageway step in is to be undertaken at time of installation.
- In areas of new carriageway resurfacing, existing binder course condition to be assessed, and where necessary reinstatement works to be undertaken.
- Any soft areas will require excavating until firm ground is found and backfilling with a 6R2 material and to be compacted in 150mm layers.
- Any foundations to be removed to a minimum of 1m below carriageway formation level, backfill to be agreed with Barnsley MBC Senior Engineer.
- Drawing to be read in conjunction with the latest revision of BGH drawing number 22/137/DE/700/002.

CONSTRUCTION KEY:

- Proposed Carriageway Construction**
Excavate to carriageway formation level and lay:
40mm of 14mm SMA 40/60 Pen Surf Course H/Stone PSV 68
60mm of AC20 Dense Binder Course 70/100 Pen H/Stone
200mm of AC32 Dense Base Course 70/100 Pen L/Stone
350mm of Type 1 granular Sub-Base
250mm of Capping (Based on 2.5% CBR)
- Proposed Carriageway Resurfacing**
Plane off existing surface course to a depth of 40mm and lay:
40mm of 14mm SMA 40/60 Pen Surf Course H/Stone PSV 68
Regulate with binder course material, if required
- Proposed Flexible Footway/Shared Facility Construction**
Excavate to footway formation level and lay:
25mm AC6 dense surf 100/150
55mm AC20 dense surf 160/220 rec
150mm Type 1 granular sub-base (increased to 250mm for vehicular crossings)
- Flexible Footway/Shared Facility Resurfacing**
Plane off existing surface course and lay:
25mm AC6 dense surf 100/150
Regulate with binder course regulating material, where necessary
- Proposed Grass Verges**
Minimum 150mm topsoil and grass seed.
Any void to be filled with class 4 landscaping material.
- Tie in Construction**
Refer to Tie in Detail below.

CBR Result	Sub Base thickness	Capping thickness
2.5% or below	Ground stabilisation to be agreed with Local Authority Engineer prior to commencement.	
> 2.5% - 3%	350mm	250mm
> 3% - 4%	320mm	240mm
> 4% - 5%	280mm	230mm
> 5% - 7.5%	240mm	210mm
> 7.5% - 10%	210mm	190mm
> 10%	180mm	170mm

Contractor is to undertake CBR tests and confirm results to the local highway authority prior to construction.

CBR Tests to be undertaken along new carriageway by the contractor and results confirmed to the Local Authority prior to pavement design being agreed.

The contractor should note that at CBR value of less than 2% it is considered unsuitable for pavement foundation and the formation should be improved. Refer to Clause 5.14 of Interim Advice Note (IAN) 73/86 Revision 1 (2009) for guidance.

300mm Lap Length 300mm Lap Length

Surface Course		
Binder Course		
New Carriageway	Existing Carriageway	Sub Base
TYPICAL FOOTWAY TIE IN DETAIL N.T.S.		
300mm Lap Length 300mm Lap Length 300mm Lap Length		
Surface Course		
Binder Course		
Base		
New Carriageway	Existing Carriageway	Sub Base

General Note:
Base material to be laid in two layers when thickness is greater than 100mm

TYPICAL CARRIAGEWAY TIE IN DETAIL
N.T.S.

Rev.	Date	Amendment	DRN	CHK	APR

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Client: GLEESON HOMES

Status: FOR APPROVAL

Scale: 1:250 Drawn: MM Chkd: MIT Appvd: JP

Size: A1 - 594 x 841

Project: WAKEFIELD ROAD - SMITHIES, BARNSELEY - SECTION 278 WORKS

Title: CONSTRUCTION DETAILS

Drawing No: 22/137/DE/700/001 Revision: -
Job No: 22-137 Date: 23.01.25

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