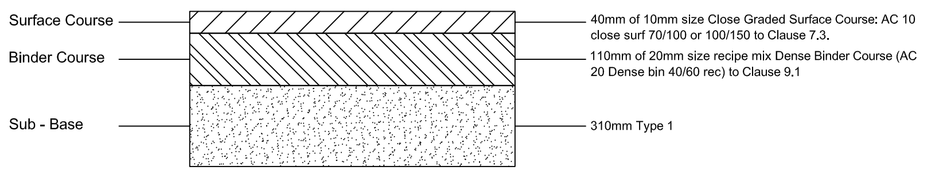
| Sub - Grade (Note 1) | Sub - Base (mm) | | Surfacing (mm) | | Total Thickness Required (mm) | |
|---|---|---|---|---|---|---|
| Design CBR | Without Geotextile | With Geotextile | Binder Course | Surface Course | Without Geotextile | With Geotextile |
| | | | Notes 4&5 | | | |
| Below 1½% & Soft spots | Not Suitable | 710 (Notes 2 & 3) | 110 | 40 | Not Suitable | 860 (notes 2,3 & 6) |
| 1½% | Not Suitable | 440 | 110 | 40 | Not Suitable | 590 (note 6) |
| 2% | 400 | 340 | 110 | 40 | 550 (Note 6) | 490 (note 6) |
| **3%** | **310** | **300** | **110** | **40** | **460 (Note 6)** | **450 (note 6)** |
| 4% | 300 | 300 (note 7) | 110 | 40 | 450 (Note 6) | 450 (note 6 & 7) |
| 5% | 300 | 300 (note 7) | 110 | 40 | 450 (Note 6) | 450 (note 6 & 7) |
| 6 - 15 % | 300 | 300 (note 7) | 110 | 40 | 450 (Note 6) | 450 (note 6 & 7) |
| Above 15% | 300 | 300 (note 7) | 110 | 40 | 450 (Note 6) | 450 (note 6 & 7) |

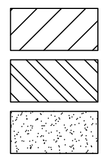
Construction Notes

**Note 1** **See Clauses 1.1.6, 1.1.7 and 1.1.8**
Note 2 See Clause 1.1.6 - Assumes no improvement is possible using either sub-soil drainage or soil strengthening technique. 710mm is 410mm of 6F5 Capping Layer Granular Fill to clause 6.8 and 300mm of Type 1 sub-base. The thickness of 710mm can be reduced to 620mm if all Type 1 sub-base is used.
Note 3 For soft spots and sub-grades with a CBR of less than 1½% the geofabric shall be laid with an approved geogrid or shall be an approved geocomposite. Approved specialist design can be used with the agreement of the Authority.
**Note 4** **May be laid in one layer.**
**Note 5** **Initial Binder Course layer thickness 70mm if the alternative kerbing installation method (two stage construction - kerbing to be laid at a later stage) is used. Total Binder Course thickness becomes 130mm in these circumstances. See Clause 1.1.17.**
**Note 6** **Total thickness to be increased by 20mm above these values if the alternative kerbing installation method is used. See Clause 1.1.17.**
Note 7 The use of a geosynthetic with a sub-grade with this bearing capacity offers no advantage or economy.

Road Construction

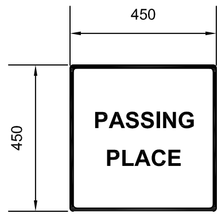



Key




Note: See Table 1 for full Lincolnshire Specification

Miscellaneous Informatory Signs: Passing Place




| Item | |
|---|---|
| 1 | Regulations: None |
| 2 | Directions: None |
| 3 | Diagrams: 821 |
| 4 | Permitted Variants: None |
| 5 | Illumination Requirements: Schedule 17, Item 4 |




Notes:

1. Trees, stumps and tree roots within the proposed highway shall be removed. Holes left by the demolition of buildings, by uprooting trees etc., shall be filled in accordance with Clause 5.6.
2. Passing Place sign is to be placed back to back located central in the bay with a 76mm diameter post 2.5m in height with the bottom of sign plates located 1.9m from the bottom of post.

2. Surface Course shall be 40mm of 10mm size Close Graded Surface Course (AC 10 close surf 70/100 or 100/150) to Clause 7.3. It must be compacted in accordance with Clause 7.2 to a void content within the range 2%-10%.

3. Binder Course materials shall be 20mm size recipe mix Dense Binder Course (AC 20 Dense bin 40/60 rec) to Clause 9.1 and shall be laid in a single layer or combination of layers not less than 50mm in thickness nor greater than 110mm in thickness. Compaction must be in accordance with Clause 7.2 to a void content within the range 2%-8% and all layers must be bonded together.

4. Sub-base shall conform with Clause 8.1 and shall be Type 1. A minimum in-situ CBR value of 30% and/or a minimum stiffness of 35 MPa will be required on all roads. CBR or stiffness values shall be determined by Plate Bearing Tests or Light Weight Drop Tests respectively in accordance with Clause 8.2.
For carriageways and footways, not more than one in ten field dry density determination, as detailed in BS 1377:Part 9, (clause 2.2) shall be less than 90% of the maximum dry density for that particular sub-base as determined by the vibrating hammer test in BS EN 13286-4.

5. The Surfacing and Binder will be lapped into the exiting construction with 300mm and seal for tie in.

6. Survey has be Supplied by Studio 11 Architecture.

7. Are no existing kerbs on or around the proposed site, details and proposed kerbs are not required in this instance for the Minor HIghway Works Permit.

8. All details presented above can be found in the Lincolnshire County Councils Development Road Specification and Construction 2014 Edition (Current).

| Rev | Date | Name | Check | Note |
|---|---|---|---|---|
| P1 | 03/05/16 | GJ | CR | First Issue |

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PROJECT:
Plank Drove, Crowland

DRAWING TITLE:
Minor Highway Works

DRAWING STATUS:
For Approval

CLIENT:
Switch Electrical Wholesale Limited

| DRAWN: | CHECKED: | APPROVED: |
|---|---|---|
| GJ | CR | LDB |

DATE: 03/05/16
SCALE @ A1:

DRAWING No.: SEW-1203-01-HW-002
REVISION No.: P1