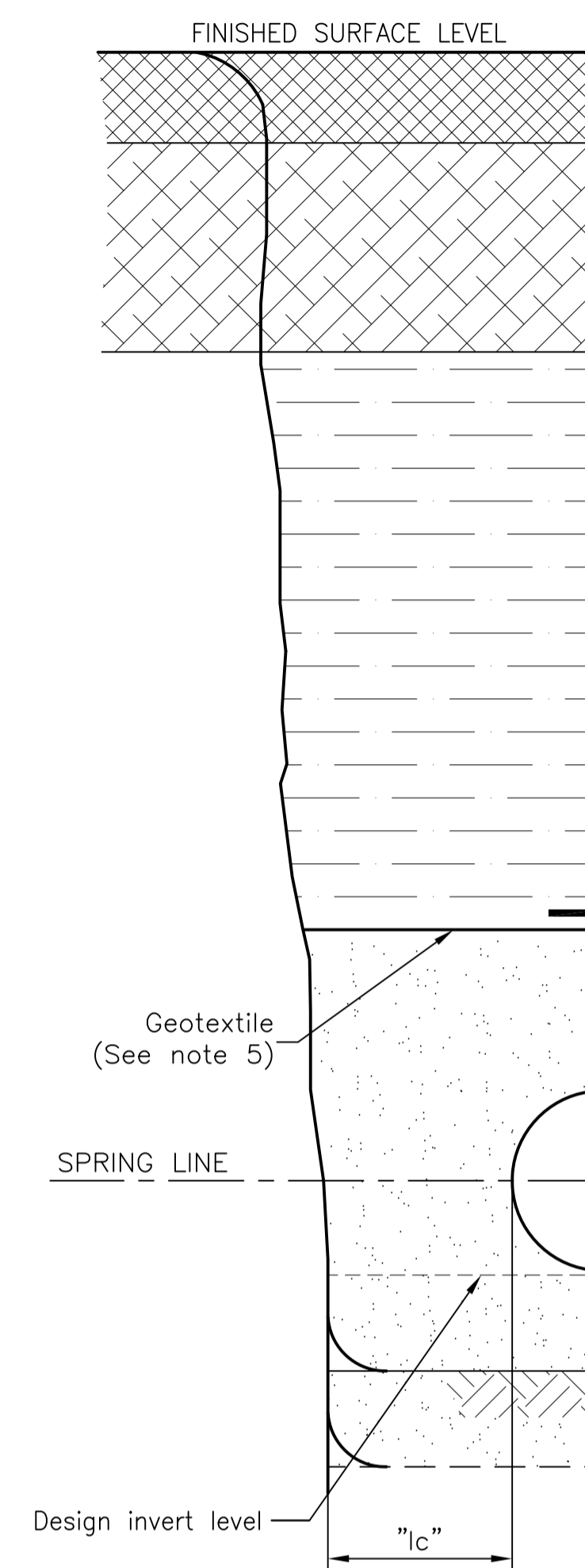


| MATERIAL | | ZONE | |
|--|--|---|-----------|
| ROAD SURFACE | VERGE & TRACK | | |
| Road surface layer | To match existing | Surface course | |
| To match existing road base or to road owner's requirements | Trench fill to road owner's requirements | Road Base | |
| Trench fill to road owner's requirements | | Trench fill (as specified in design drawings) | |
| Or | Or | Trench fill (as specified in design drawings) | |
| Inorganic fill material with 75 maximum stone size | Inorganic fill material with 75 maximum stone size | | |
| Embedment material in accordance with design drawings, job specification and AS2566.2, Table G1, G2 and G3. (See note 4) | | Overlay | Embedment |
| | | Side support | |
| | | Bedding | |
| | | Over-excavation | |
| Bedding may be omitted if trench base is granular sand or gravel of suitable grading. | | | |

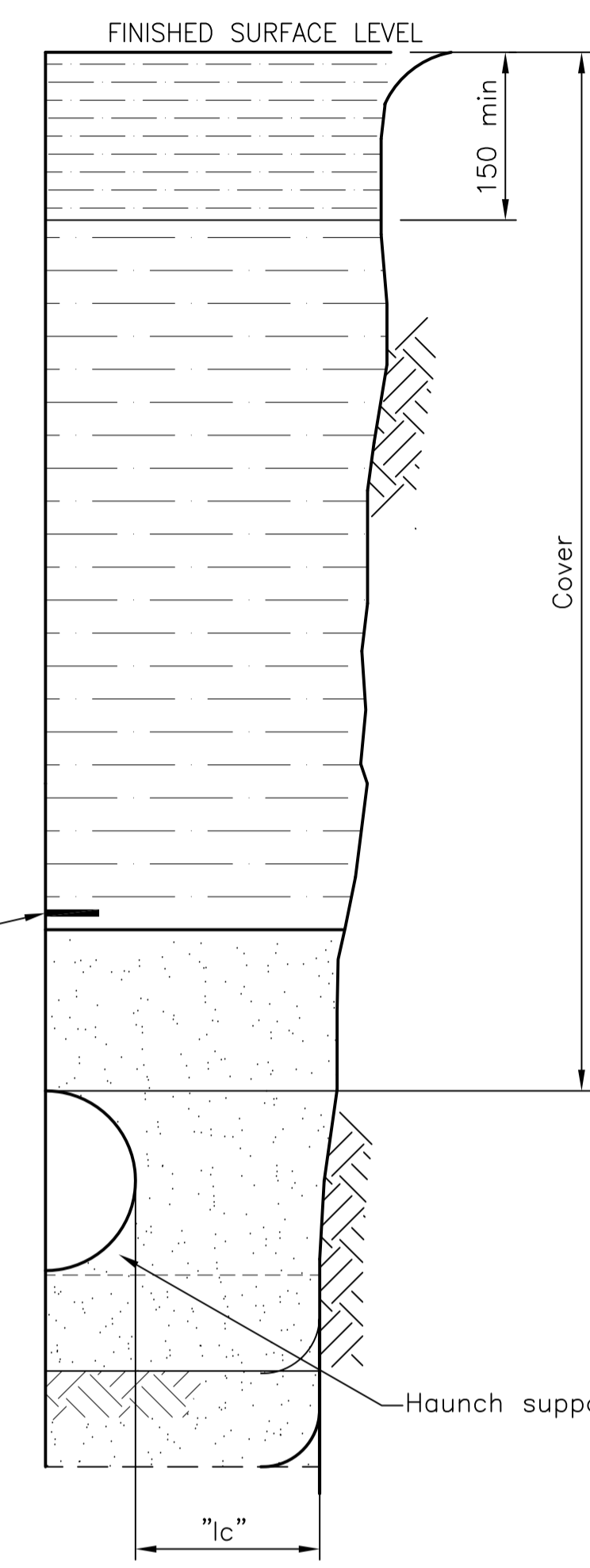
VEHICULAR LOADING



MINIMUM PIPE COVER

| LOCATION | MINIMUM COVER # |
|--|-----------------|
| Private property Non vehicular New developments | 600 |
| Private property Non vehicular Existing developments | 450 |
| Private property Vehicular | 750 |
| Footpaths, sealed Roads (non arterial) | 900 |
| Unsealed roads | 1200 |
| Arterial roads | 1200 |

WHERE MINIMUM COVER CAN NOT BE ACHIEVED, PROVIDE ALTERNATIVE PROTECTION OF THE PIPELINE



| ZONE | MATERIAL | |
|---------------------|--|--|
| Topsoil Or Pavement | Original or Imported material To match existing | |
| Trench fill | Inorganic fill material With 75 maximum stone Stone size | |
| Embedment | Overlay | Embedment material in accordance with design drawings, job specification and AS2566.2, table G1, G2 and G3. (See note 4) |
| | Side Support | |
| | Bedding | |
| Over-excavation | Bedding may be omitted if trench base is granular sand or gravel of suitable grading | |

NO VEHICULAR LOADING
INCLUDES LOCATIONS WHERE OCCASSIONAL VEHICLE LOADING OCCURS EG RESERVES AND FOOTWAYS

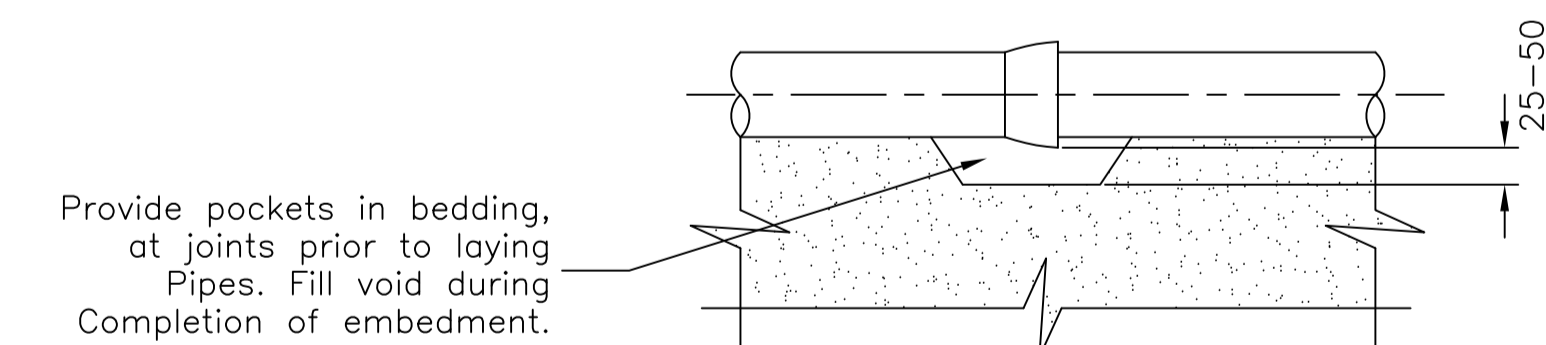
SPRING LINE TRENCH CLEARANCE

| NOMINAL DIAMETER DN | MINIMUM CLEARANCE "lc" |
|---------------------|------------------------|
| ≤150 | 100 |
| >150-≤300 | 150 |
| >300-≤450 | 200 |
| >450-≤900 | 300 |
| >900-≤1500 | 350 |

TRENCH WIDTH TO BE SUFFICIENT TO SAFELY LAY PIPE AND COMPACT THE SIDE SUPPORT ZONE. lc TO BE A MAXIMUM OF 400MM

NOTES:

- All dimensions are in millimetres unless noted otherwise.
- Specify special bedding to suit the conditions if the trench floor has:
 - Irregular outcrops of rock.
 - AHBP of <50 kpa (see SD-481), or
 - Been disturbed by uncontrolled ground water.
- Compact and evenly grade finished trench floor.
- Embedment, trench fill and compaction to meet the requirement of design drawings, WSA 02 part 3, the job specification and AS2566.2, table G1, G2 and G3.
- Use geotextile filter fabric where specified.
- Sides of excavation to be kept vertical to at least 150 above the pipe.



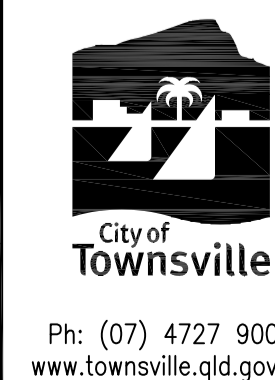
PIPE JOINT BEDDING POCKETS FOR JOINT PROJECTIONS (SOCKETS, FLANGES ETC)

| No. | DATE | DESCRIPTION | AP'D |
|-----------|------|----------------|------|
| B | | NOTES AMENDED | |
| A | | ORIGINAL ISSUE | |
| REVISIONS | | | |

NOTES : BASED ON FORMER WSAW DRAWING SEW-1201

| |
|--------------|
| Full Size A1 |
| Not to Scale |

| | |
|--|---------------------|
| DRAWN: DESIGN OFFICE | CHECKED: D. MOSELEY |
| Design Engineer Approved: Original signed by P. TURL | |
| Date: 26/07/2012 | |
| Manager Approved: Original signed by P. MENDIOLEA | |
| Date: 26/07/2012 | |



EMBEDMENT & TRENCHFILL TYPICAL ARRANGEMENT

| |
|------------------|
| STANDARD DRAWING |
| SEWERAGE |
| SD-460 B |