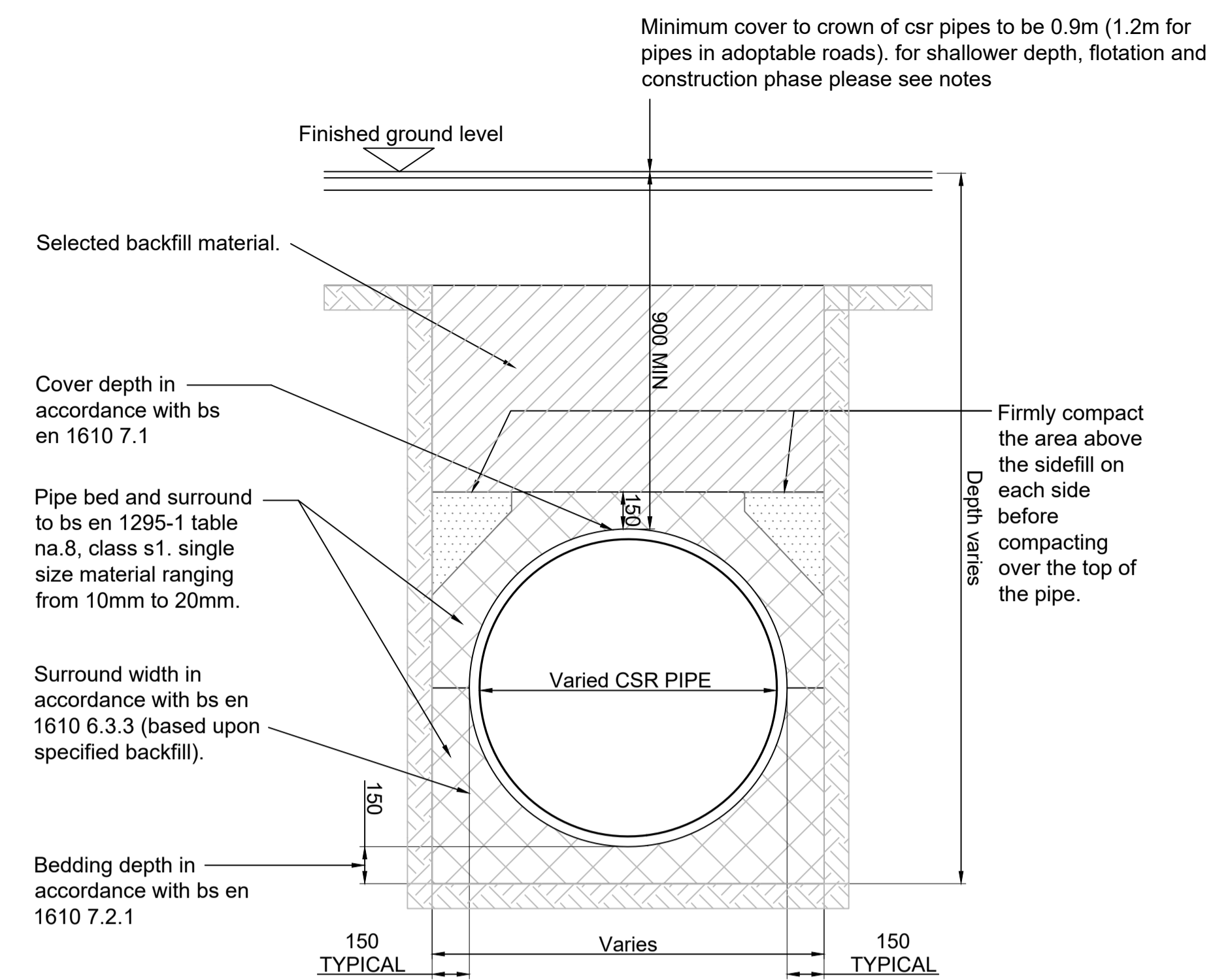


(To occur at joints not more than 8m apart)

Pipe Ø	Joint thickness
< 450	18mm
450-1200	36mm
1200 <	54mm

Expansion Joint for Concrete Surround to Pipes (Class Z)  
Scale 1:20

Pipe Bed and Surround Schedule				
Location	Cover	Bedding Material	Surround Material	Backfill Material
Adjacent to Structures	< 300mm		Pipe to be cast integrally with structure above	
	> 300mm	Type 1	Type 1	Type 1
Roads/Hardstandings	< 900mm	Class 'Z'	Class 'Z'	Type 1
	> 300mm	Class 'B'	Class 'S'	Type 1
Soft Landscaping	< 900mm	Class 'Z'	Class 'Z'	Selected Excavated Fill
	> 900mm	Class 'B'	Class 'S'	
Class 'Z'	Gen 3 (Min) - refer to concrete specification			
Class 'B'	Granular Bedding (Pea Gravel)			
Class 'S'	Granular Surround (Pea Gravel)			
Type 1	Compacted in accordance with the Specification for Highway Works			
Selected Excavation Fill	Compacted 'As Dug' material free from deleterious and organic material			



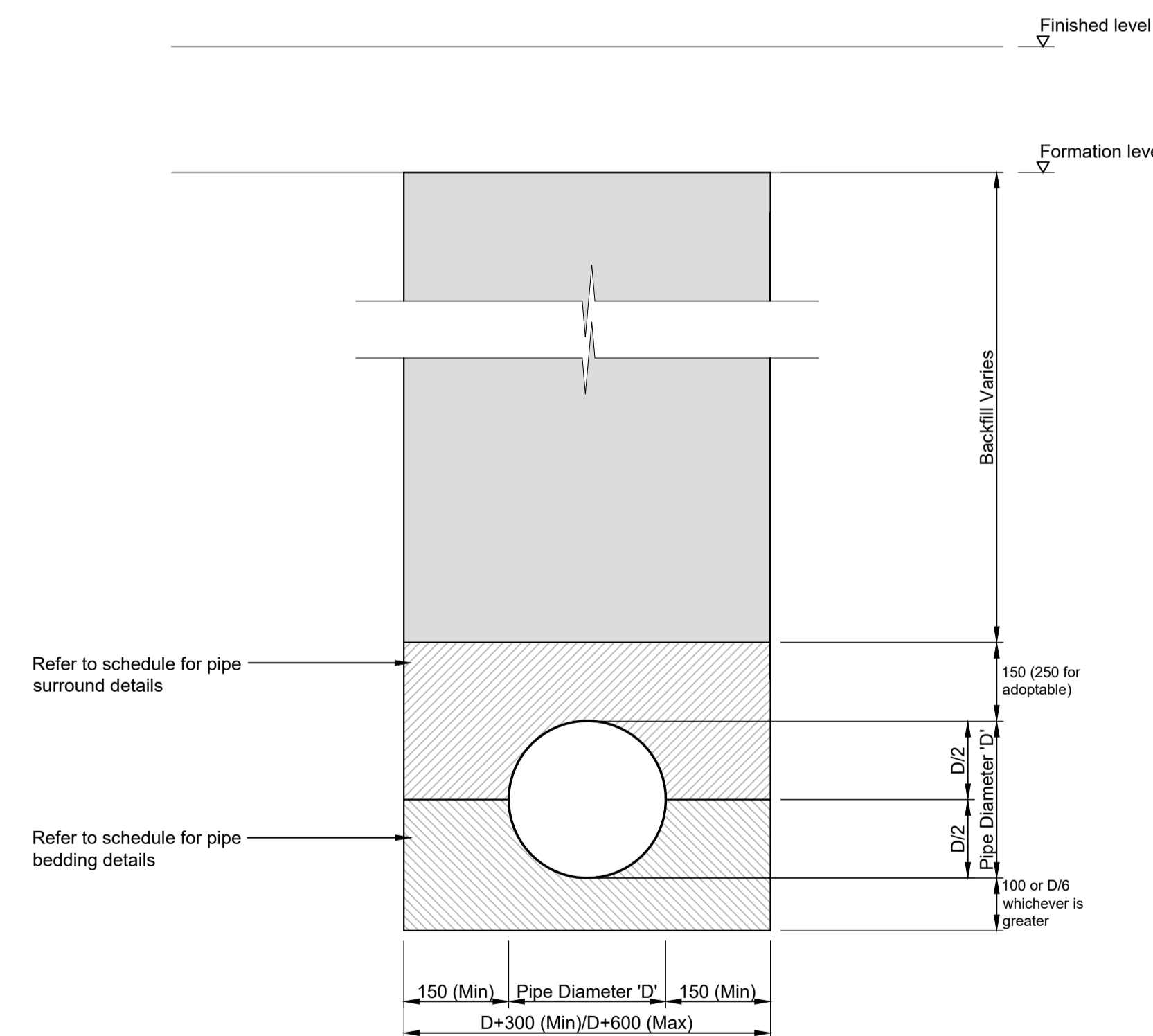
BACKFILL TO BE IN ACCORDANCE WITH 'SPECIFICATION FOR HIGHWAY WORKS' VOLUME 1, CLAUSE 6/2 AND SHW CLAUSE 503.3.(i)

Section bed and surround details for hard landscaped/trafficked areas  
Scale 1:20

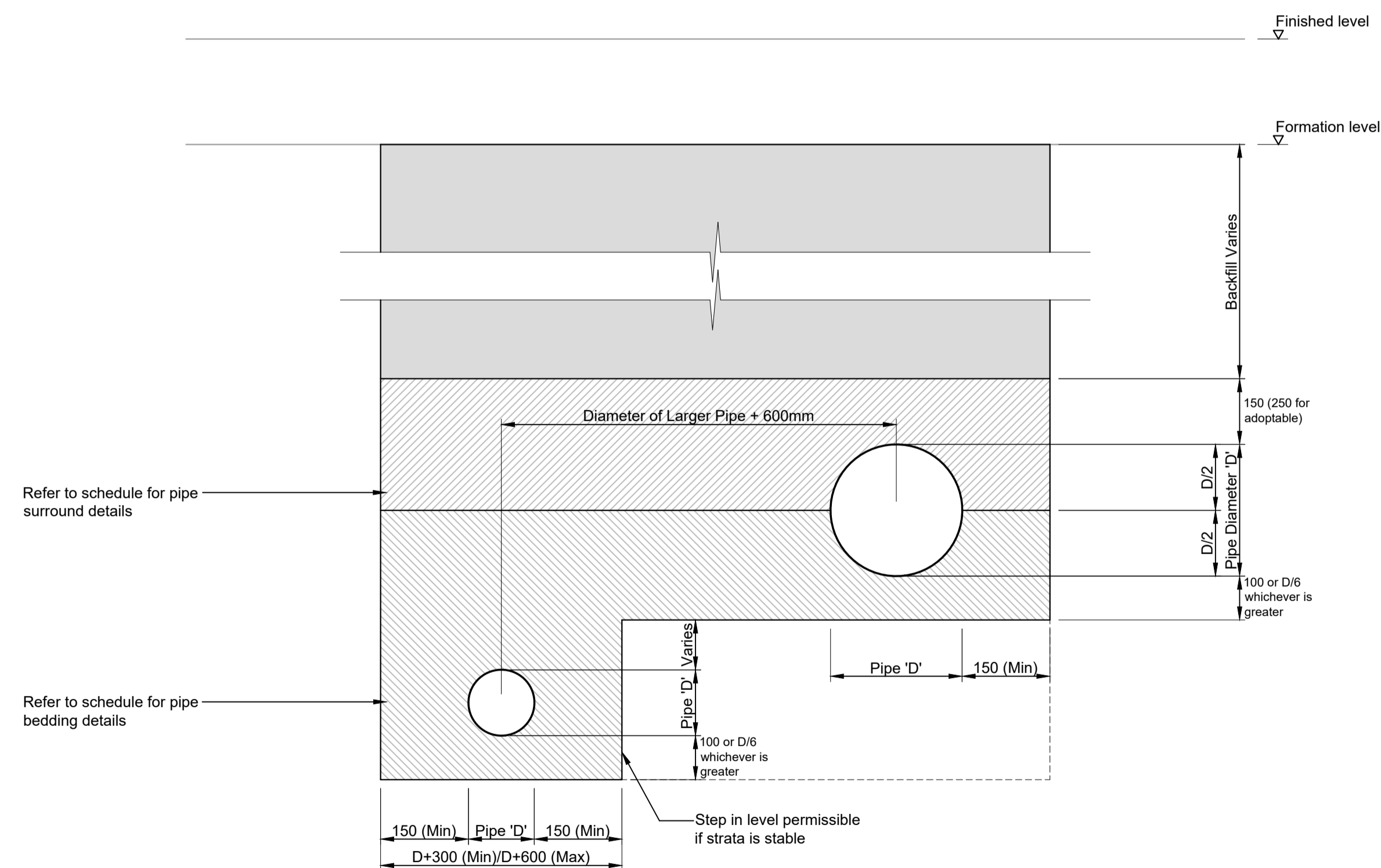
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Notes

- This drawing has been prepared in accordance with the scope of RPS's appointment with its client and is subject to the terms and conditions of that appointment. RPS accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided.
- If received electronically it is the recipient's responsibility to print to correct scale. Only written dimensions should be used.
- This drawing should be read in conjunction with all other relevant drawings and specifications.
- 'Pipes' refers to gravity sewers, drains and rising mains
- For concrete information, refer to specification
- Drainage pipe class 'Z' works to be:
  - Concrete conforming to BS 8500: Part 2: 2006 and BS EN 206: Part 1: 2000
  - Concrete designation = As per concrete specification
- All external gully gratings and frames to be manufactured to meet the load requirements of BS EN 124/FACTA. The gully and frame should be chosen from the following grades to suit the particular location and anticipated loading condition
  - Class A15/A - Pedestrian loading only
  - Class C250/C - Car parks and within 0.5m of kerbline
  - Class D400/D - All carriageways and lorry loading/parking bays
- Where proprietary products are specified the contractor may offer an equal or superior quality alternative to the contract administrator for approval
- Frame to gully grating to be free of gussets
- The pipes are to be selected by the contractor to have a suitable strength for the service conditions. The beddings shown are the minimum requirements. The contractor must ensure that the bedding provided is suitable for the selected pipes and loading conditions. Details of proposals for the pipes and beddings are to be submitted to the contract administrator for approval before the work commences
- All pipes are to be suitable for main road traffic unless specified otherwise.
- If the trenches are to be trafficked before the completion of the hardstandings the contractor should provide any necessary protection as recommended by the pipe manufacturer's
- Pipe bedding
  - Where depth to invert is less than 6m, pipe bedding shall be class S granular surround.
  - where depth to invert exceeds 6m, bed shall be class 'Z' concrete surround
  - where depth to soffit is less than 1.2m, bed shall be class 'Z' concrete protected "When using type z bedding, flexible joints shall be maintained, by incorporating compressible fibreboard at each joint.
- Backfill to trench above specified pipe surround as follows:-
  - Below roads & paving: Type 1 material to Specification for Highway Works Clause 803 compacted in 150mm layers.
  - Below structures & floor slabs where the depth of cover from underside of slab to crown of pipe is 300mm or more: Type 1 material to Specification for Highway Works Clause 803 compacted in 150mm layers.
  - Below structures & floor slabs where the depth of cover from underside of slab to crown of pipe is less than 300mm: Encase in concrete to same mix as slab & cast integrally with slab - Adjacent to structures: Backfill with concrete as required by Building Regulations & described in the accompanying specification
- If required generally by the contract or dictated by site conditions concrete shall be sulphate resisting



Typical Section Through Trench  
Scale 1:10



Typical Section Through Shared Trench  
Scale 1:10



P02	BCBS Comment Incorporated	JNB	SMC	22.10.20
P01	First Issue	JNB	SMC	24.08.20
Rev	Description	By	Ckd	Date



Sherwood House, Sherwood Avenue,  
Newark, Nottinghamshire, NG24 1QQ  
T:01636 605 700 E: rpsnewark@rpsgroup.com



Project **Hoyland**

Title **Highway Drainage Details (Sheet 1)**

RPS Project Number	Scale @ A1	Date Created
NK020040	Varies	15.07.20
Task Team Manager	Information Author	Task Information Manager
SG	JNB	SMC

Status <b>S2 (Suitable for Information)</b>		
Document Number	Revision	
HOYLA-RPS-SI-XX-DR-CR-521	P02	
Project Code - Originator - Zone - Level - Type - Role - Drawing Number		
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