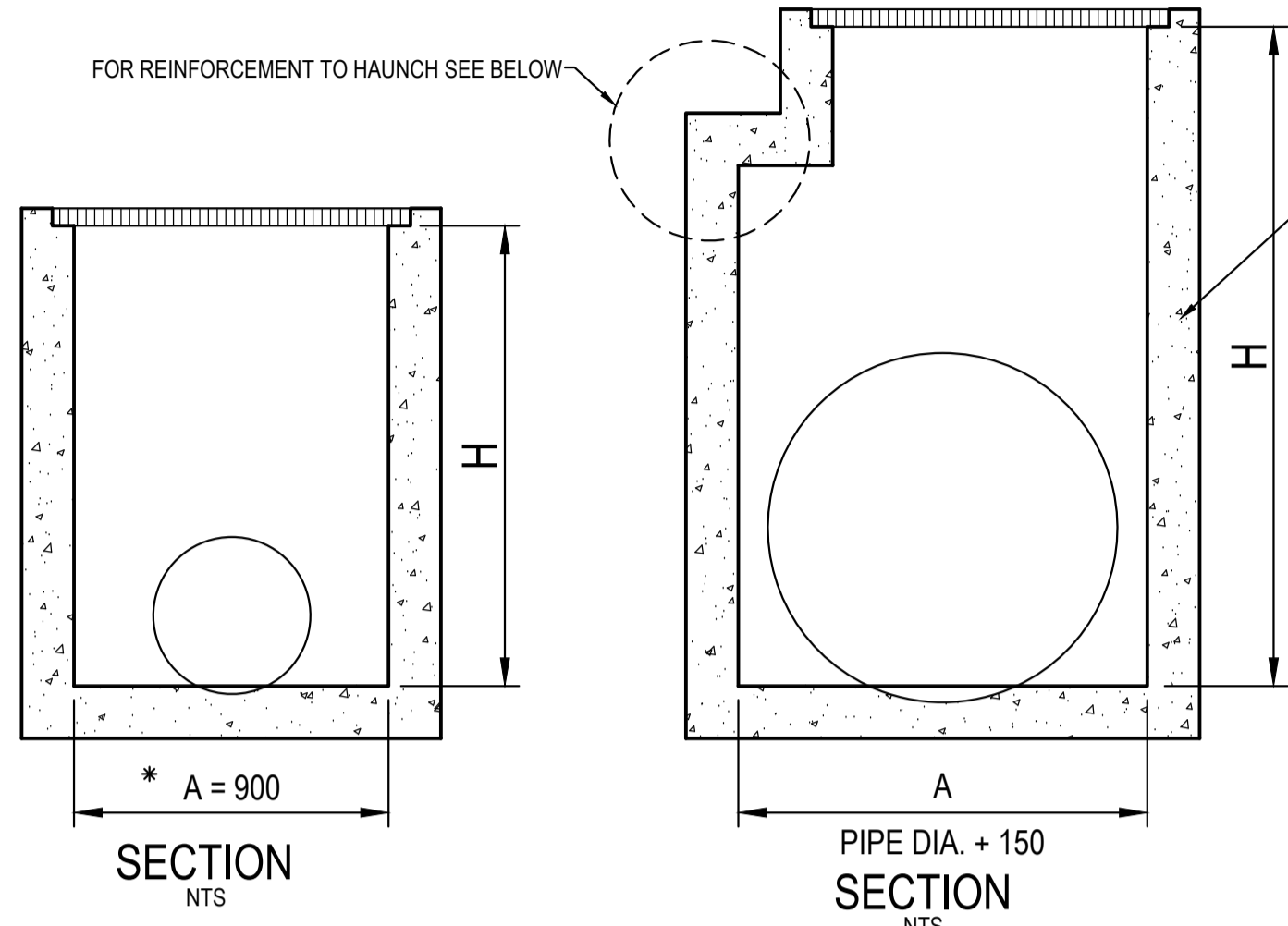


**TYPICAL PIT CHAMBER SIZES**  
**IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.**

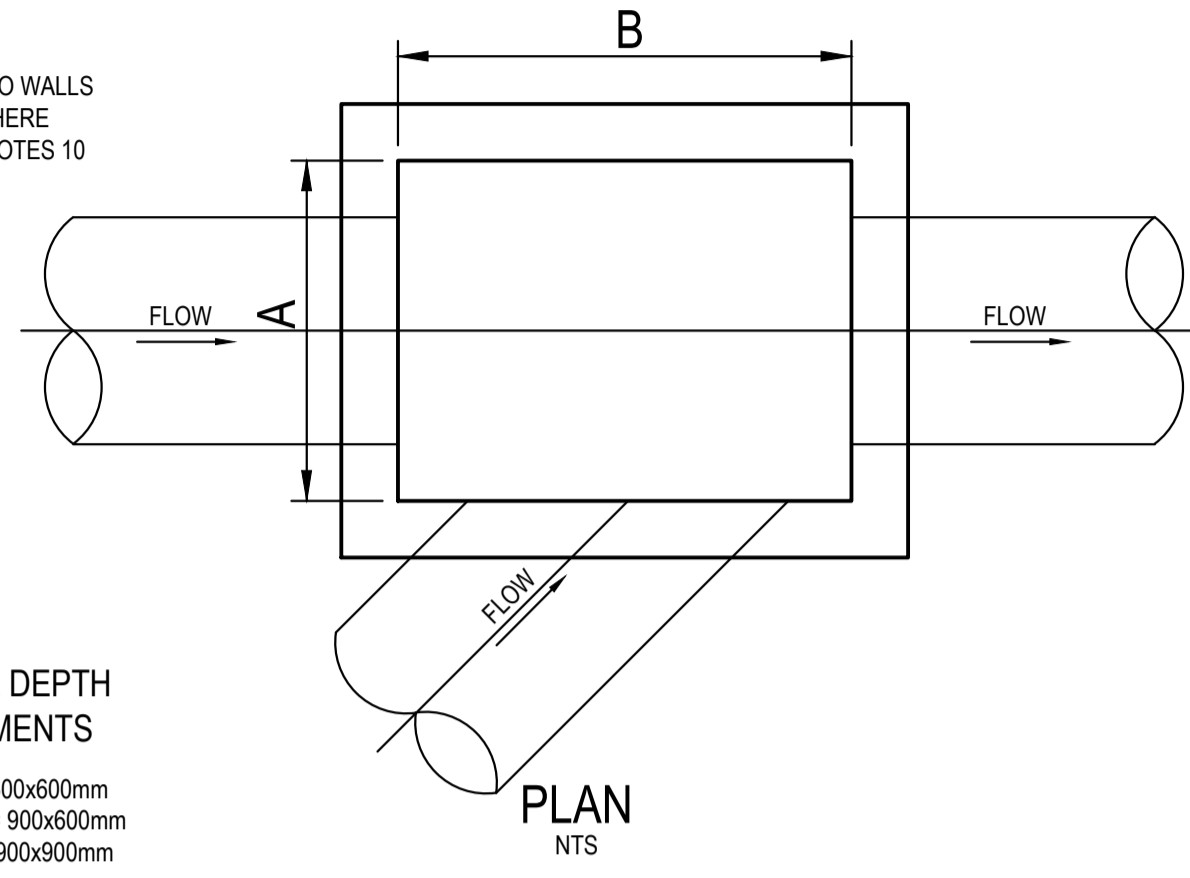
- 1 SELECT PIT CHAMBER USING THE STEPS BELOW:
- 2 SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
- 3 CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
- 4 CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.

FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm  
 FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm  
 FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm  
 FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm  
 FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm



\*A = 600 FOR PIPES UP TO 375 DIA.  
 1 PIT CHAMBER DIMENSIONS FOR PIPES UP TO 600 DIA.

1 PIT CHAMBER FOR PIPES GREATER THAN 600 DIA.



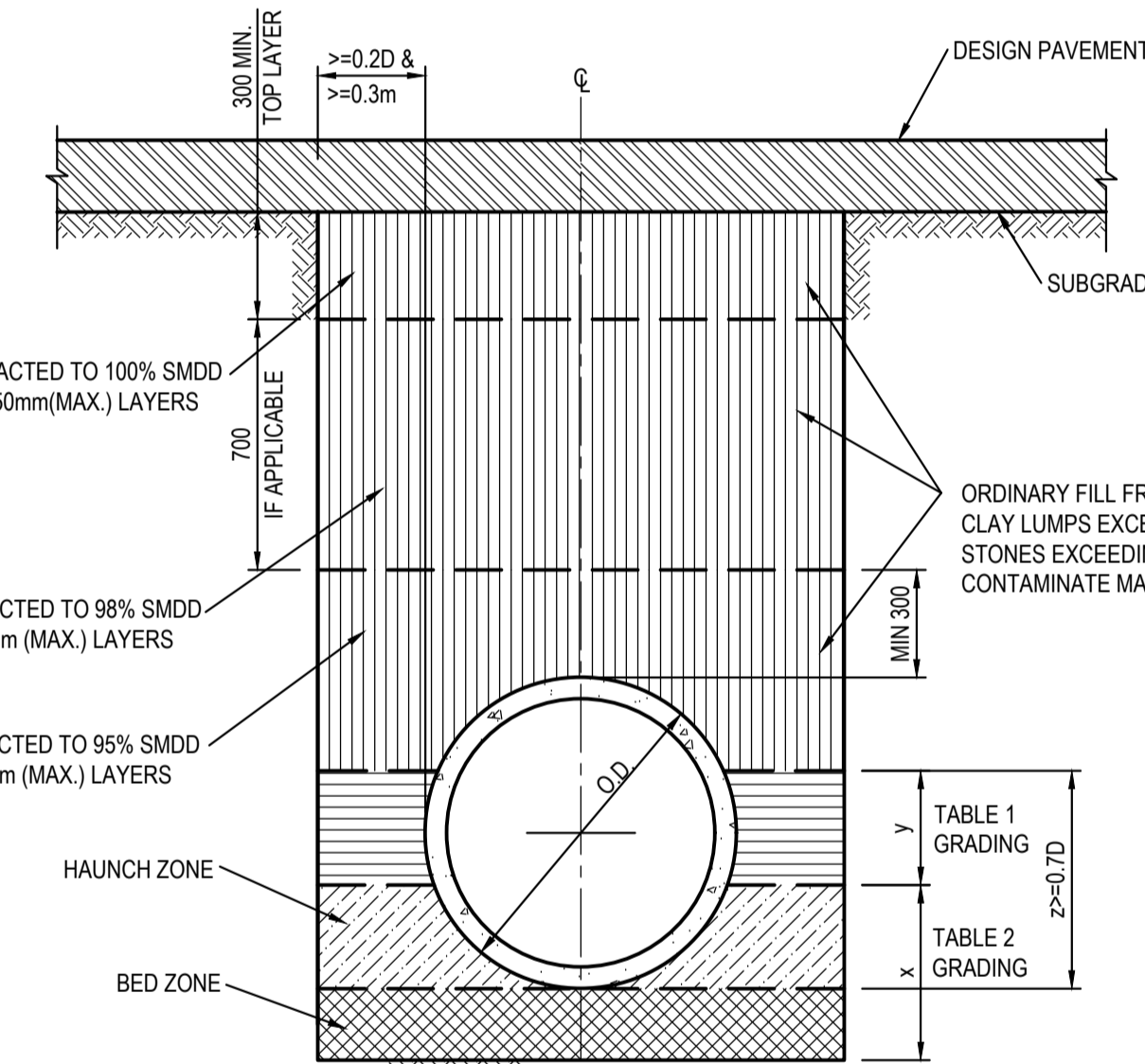
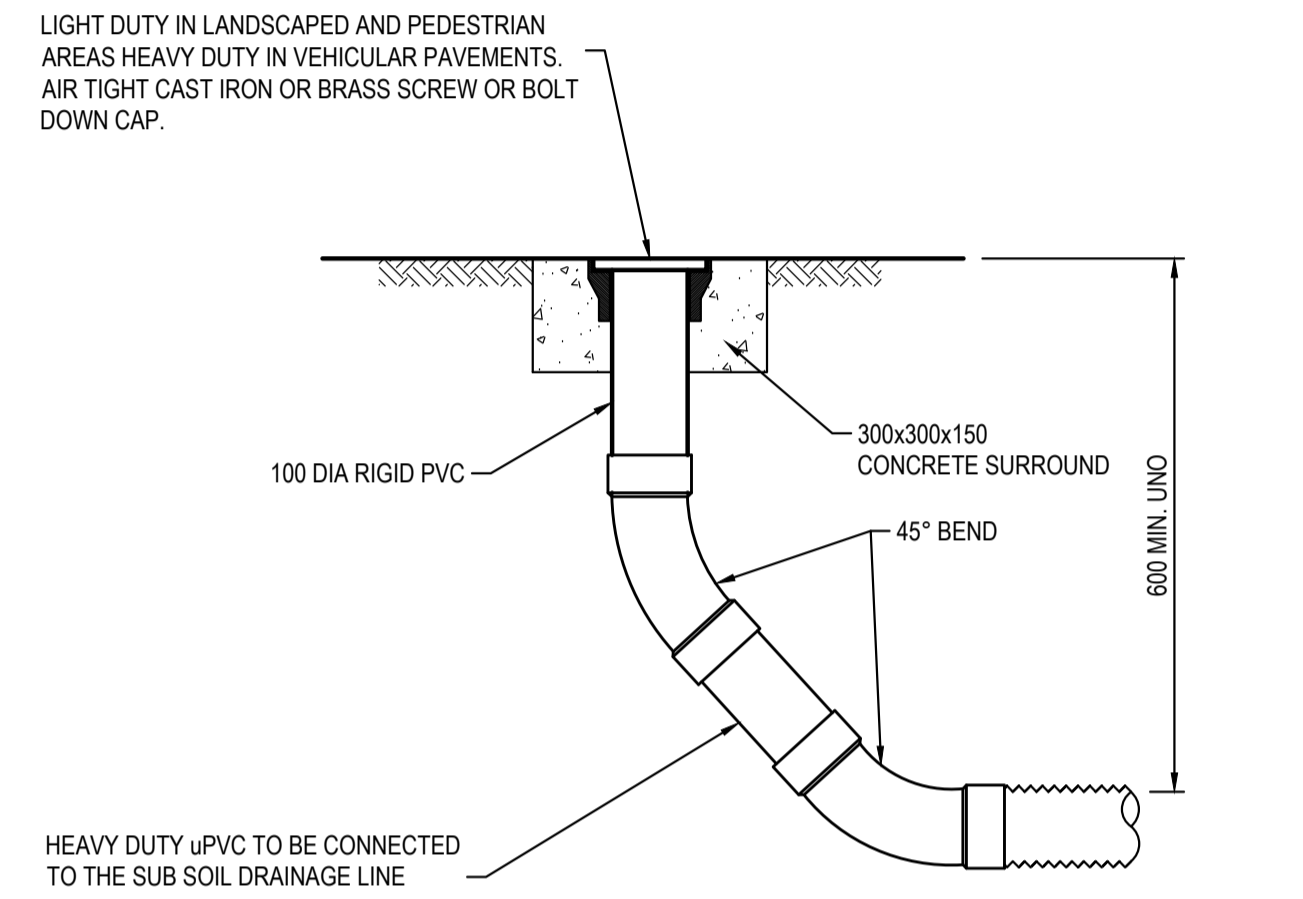
3 PIT CHAMBER FOR SIDE ENTRY ON SKEW

2 PIT SIZE & DEPTH REQUIREMENTS  
 H = 0-900mm - Ax B = 600x600mm  
 H = 900-1200mm - Ax B = 900x600mm  
 H = >1200mm - Ax B = 900x900mm

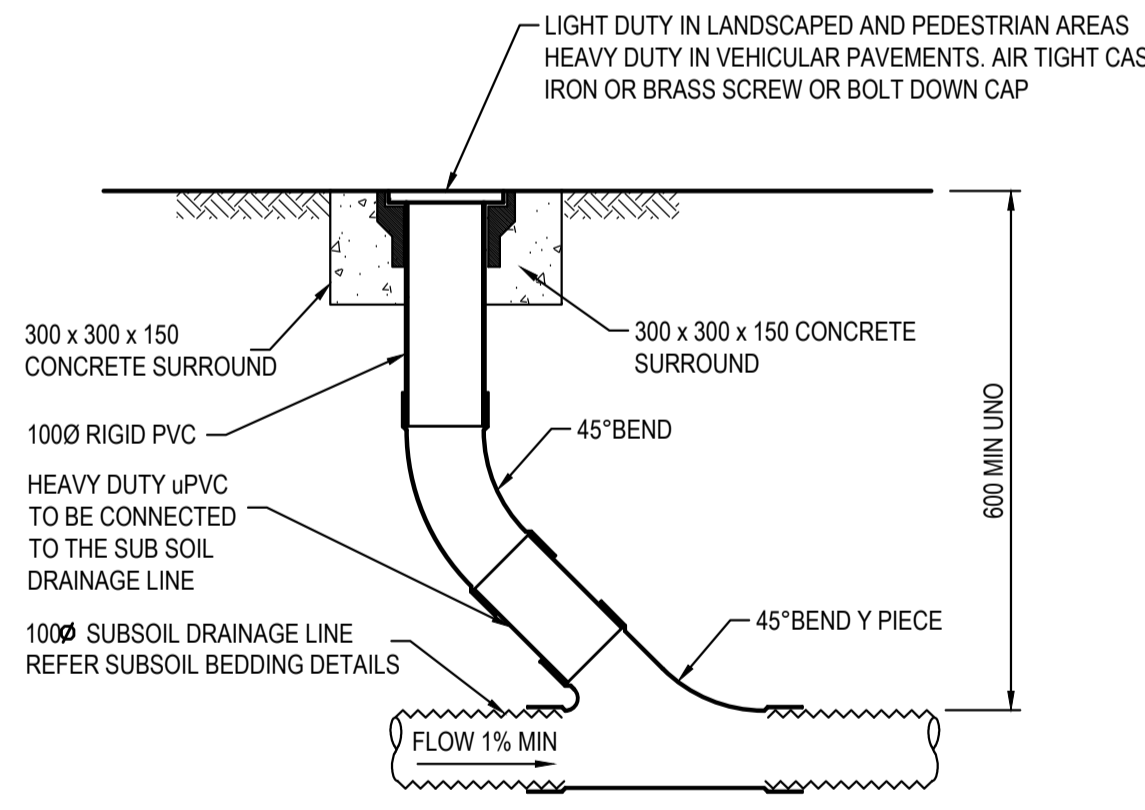
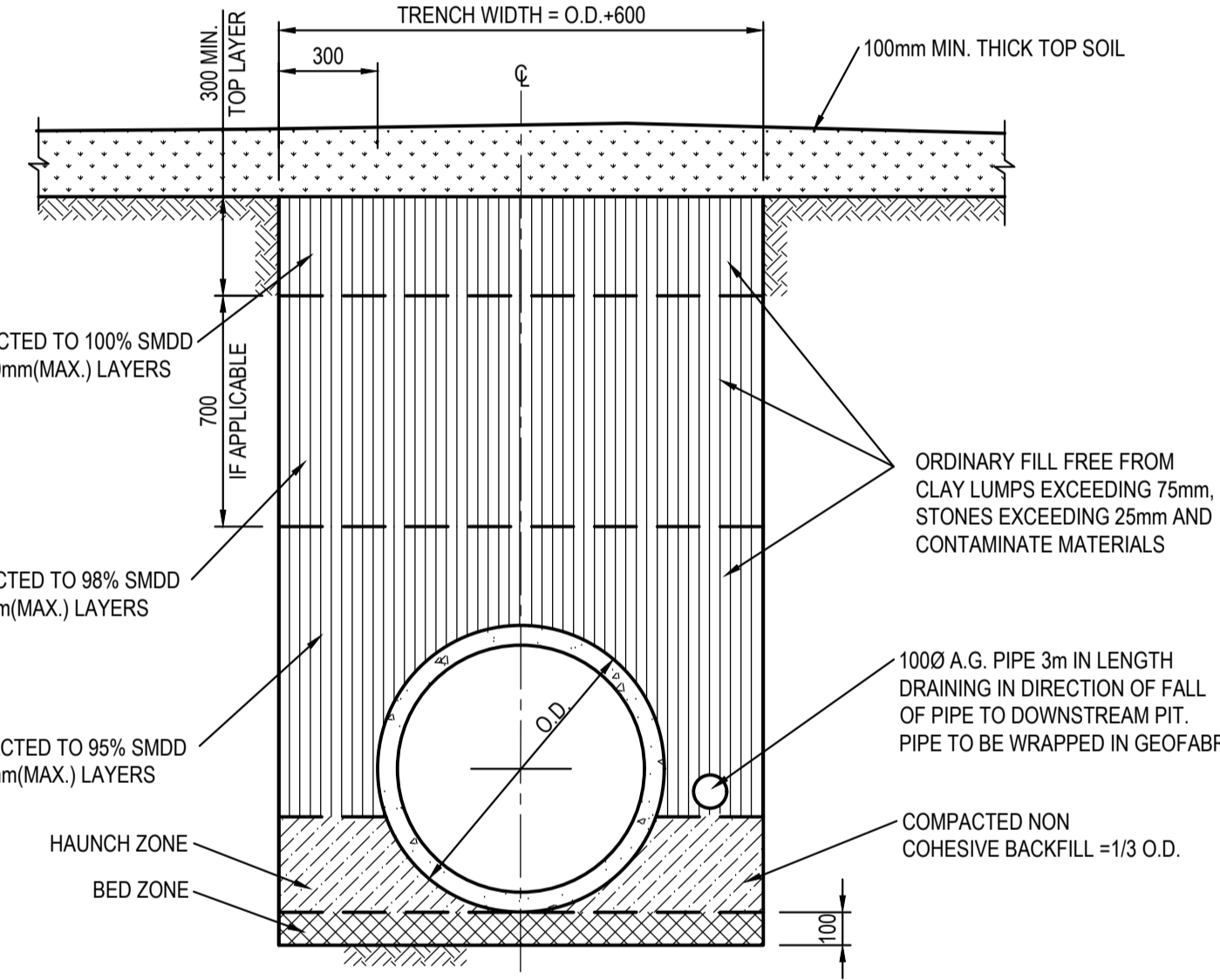
SIEVE SIZE (MM)	WEIGHT PASING (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

SIEVE SIZE (MM)	WEIGHT PASING (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

SUPPORT TYPE	BED ZONE X	HAUNCH ZONE Y	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR
HS1	100 IF D<=1500, OR 150 IF D>=1500	0.1D	50	2.0
HS2		0.3D	60	2.5
HS3		0.3D	70	4.0



NOTE: TYPE HS2 TO BE USED AS A TYPICAL SUPPORT FOR TRENCHES UNDER ROADWAY UNLESS SPECIFIED SEPERATELY

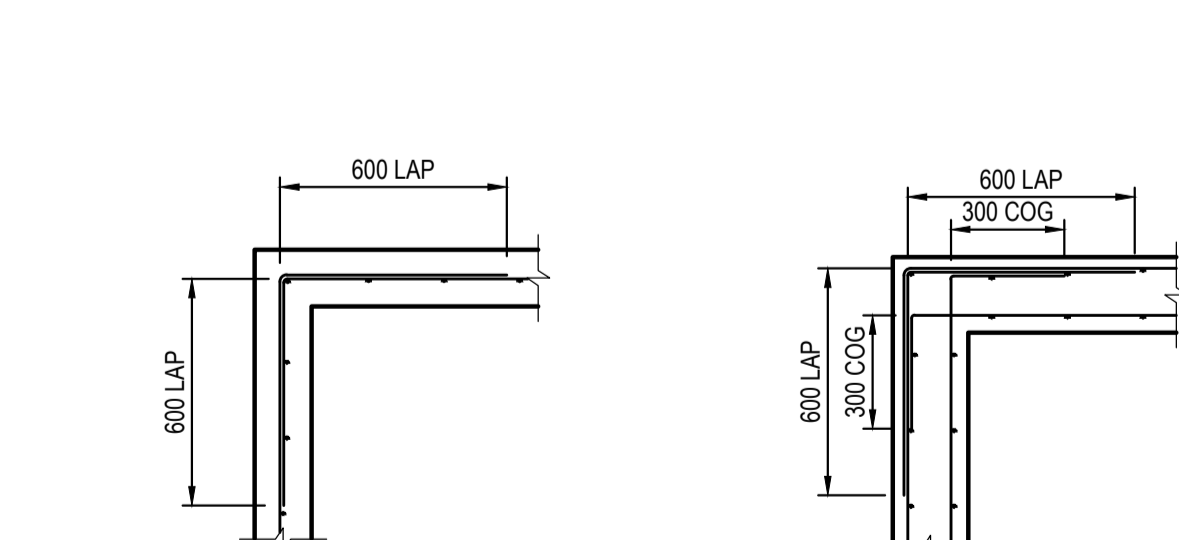
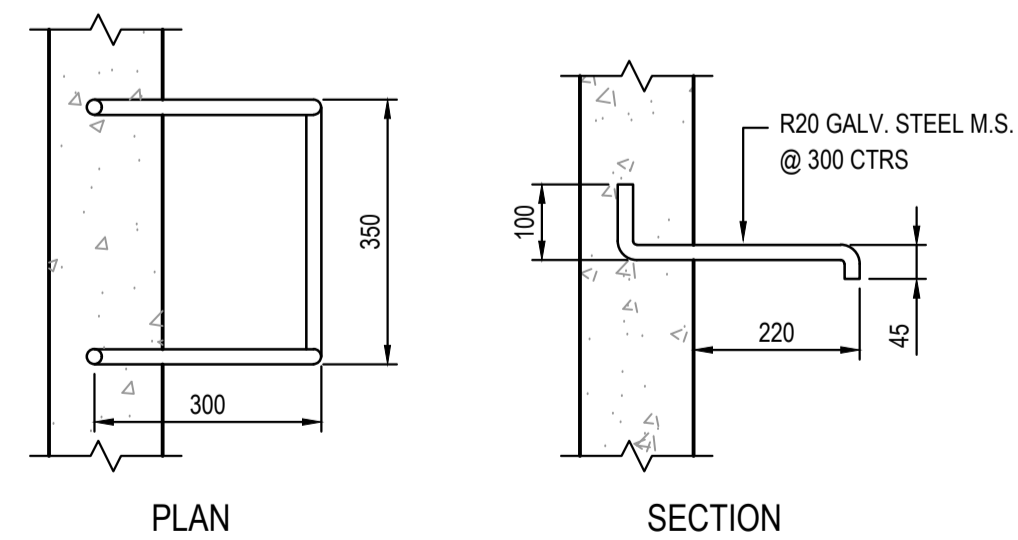
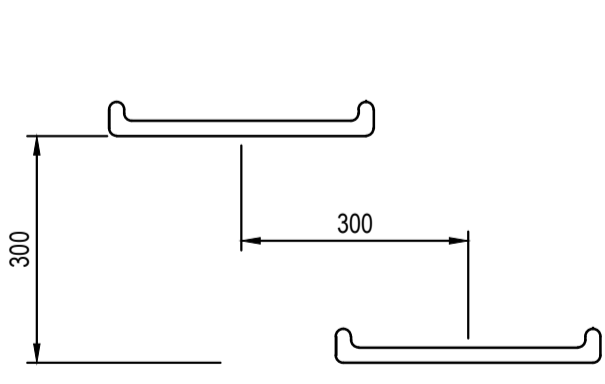


**PIT LID SCHEDULE**

PIT/STRUCTURE NUMBER	DESCRIPTION
A-1 A-2 A-3 A-4 A-5 A-6 A-7 A-8 B-1 B-2	PROPOSED 900x900 SURFACE INLET PIT WITH HINGED GRATED LID HEAVY DUTY CLASS "D" IN ACCORDANCE WITH PENRITH CITY COUNCIL'S REQUIREMENTS.
B-3 B-4 B-5 B-6 C-1 C-1a C-2 C-3 D-11 D-12	
D-13 D-14 D-15 D-16 F-1 F-2 F-3 F-4 F-5 F-6	
F-7 F-8 F-9 F-10 F-11 F-12 F-13 F-14 F-15 F-16	
I-1 I-2 I-3 I-4 I-5 I-6 I-7 I-8 I-9 I-10	
I-11 I-12 I-13 I-14 I-15 I-16 I-17 I-18 I-19 I-20	
GD-1 GD-2 GD-3	PROPOSED 250mm WIDE GRATED DRAIN HEAVY DUTY CLASS "D" IN ACCORDANCE WITH PENRITH CITY COUNCIL'S REQUIREMENTS.
G-1 G-2 H-1 H-2	PROPOSED JUNCTION PIT WITH 900x900 HEAVY DUTY SEALED LID CLASS "D" IN ACCORDANCE WITH PENRITH CITY COUNCIL'S REQUIREMENTS.
J-1	PROPOSED 1200x1200 SURFACE INLET PIT WITH HINGED GRATED LID HEAVY DUTY CLASS "D" IN ACCORDANCE WITH PENRITH CITY COUNCIL'S REQUIREMENTS.
A-2a A-2b A-2c A-3a A-3b A-3c A-4a A-4b A-4c A-5a A-5b A-5c A-6a A-7a	PROPOSED 600x600 WITH HEAVY DUTY CLASS "D" LID GRATED INLET IN ACCORDANCE WITH PENRITH CITY COUNCIL'S REQUIREMENTS.
A-9 A-10 A-11 A-12 A-13 A-14 B-7 B-8 B-9 B-10 B-11 C-4 C-5 C-6 C-7 C-8 E-1 E-2 E-3 E-4 E-5	PROPOSED 1.2m INLET INLET PIT WITH HINGED GRATED LID HEAVY DUTY CLASS "D" IN ACCORDANCE WITH PENRITH CITY COUNCIL'S REQUIREMENTS.

**NOTE:**  
 ALL INLET PITS TO BE FITTED WITH ATLAN STORMSACK PIT BASKET OR EQUIVALENT

- DRAINAGE NOTES:**
1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.
  2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.
  3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
  4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.
  5. MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.
  6. NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.
  7. FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.
  8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIRED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.
  9. ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE "POLYCRETE" WITH "LIGHT DUTY" CLASS B GALV. MILD STEEL GRATING AND FRAME. ALL PITS IN TRAFFICABLE AREAS (CLASS "D" LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU Fc=32 MPa. REINFORCED WITH N12-200 BOTH LOADING WAYS CENTRALLY PLACE. U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. GALV MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.
  10. ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3996.
  11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:  
 - PIPE SIZE  
 - DEPTH TO INVERT  
 - SKEW ANGLE  
 REFER TYPICAL PIT CHAMBER DETAILS BELOW  
 IF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.
  12. FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCH TO FACILITATE FLOW.
  13. GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).
  14. ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.
  15. ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.
  16. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.
  17. ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.
  18. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.
  19. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.
  20. PITS IN EXCESS OF 1.5 m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12@200 CTS CENTRALLY PLACED BOTH WAYS THROUGHOUT U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.
  21. SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.
  22. ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.



**FOR DA ONLY**

<b>SURVEY INFORMATION</b>				Client: <b>HB&amp;B PROPERTY PTY LTD</b>				Suite 2 01 828 Pacific Highway Gordon NSW 2072				Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hphonsult.com.au Web www.henryandhymas.com.au				Project <b>STORAGE AND DISTRIBUTION WAREHOUSE LUDDENHAM ROAD, ORCHARD HILLS, NSW</b>				Drawn E. Formadero				Designed S. Chen				Original issue date Feb 2025			
SURVEYED BY: WATSDON BUCHAN				Architect: <b>NETTLETONTRIBE</b>				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				<b>DRAWING TO BE PRINTED IN COLOUR</b>				Checked N. Heatlewood				Approved T. Rozeehal				Scale @A1 NTS							
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