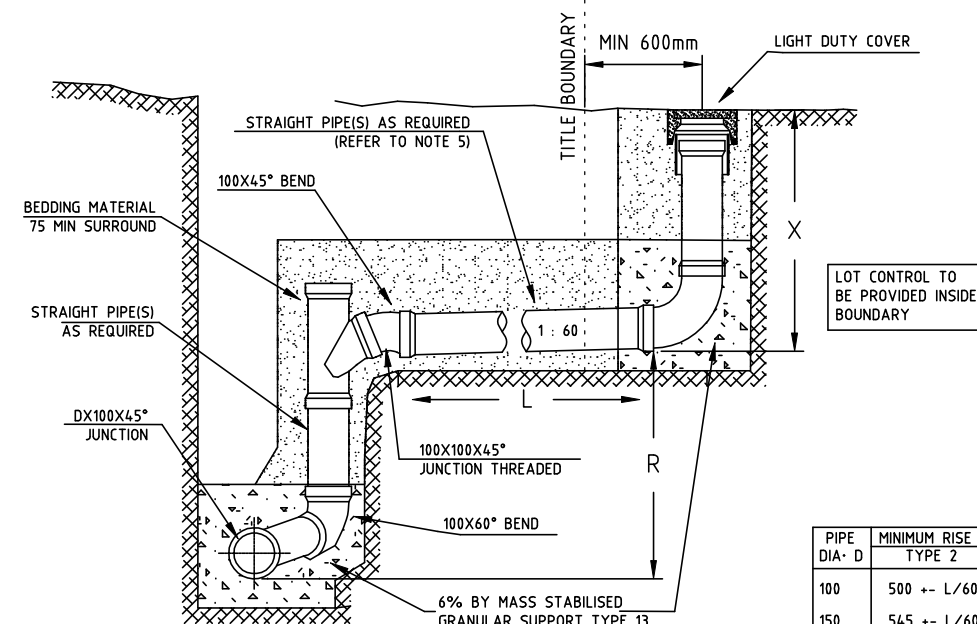


TYPE 1

TYPICAL LAYOUT AND GENERAL ARRANGEMENT FOR PROPERTY CONNECTION SEWERS.

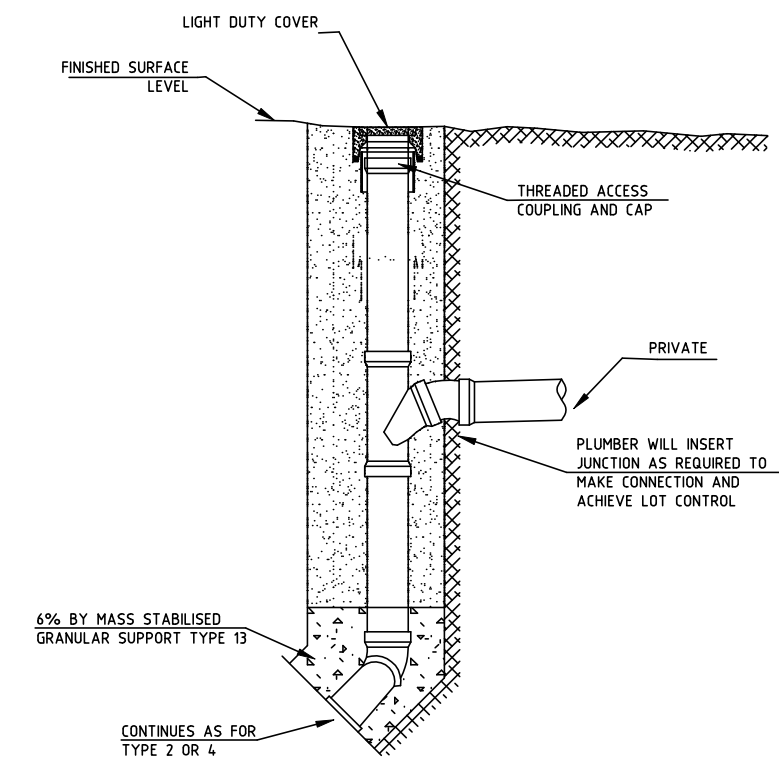


PIPE DIA - D	MINIMUM RISE R
	TYPE 2
100	500 +- L/60
150	545 +- L/60
225	645 +- L/60

TYPE 2

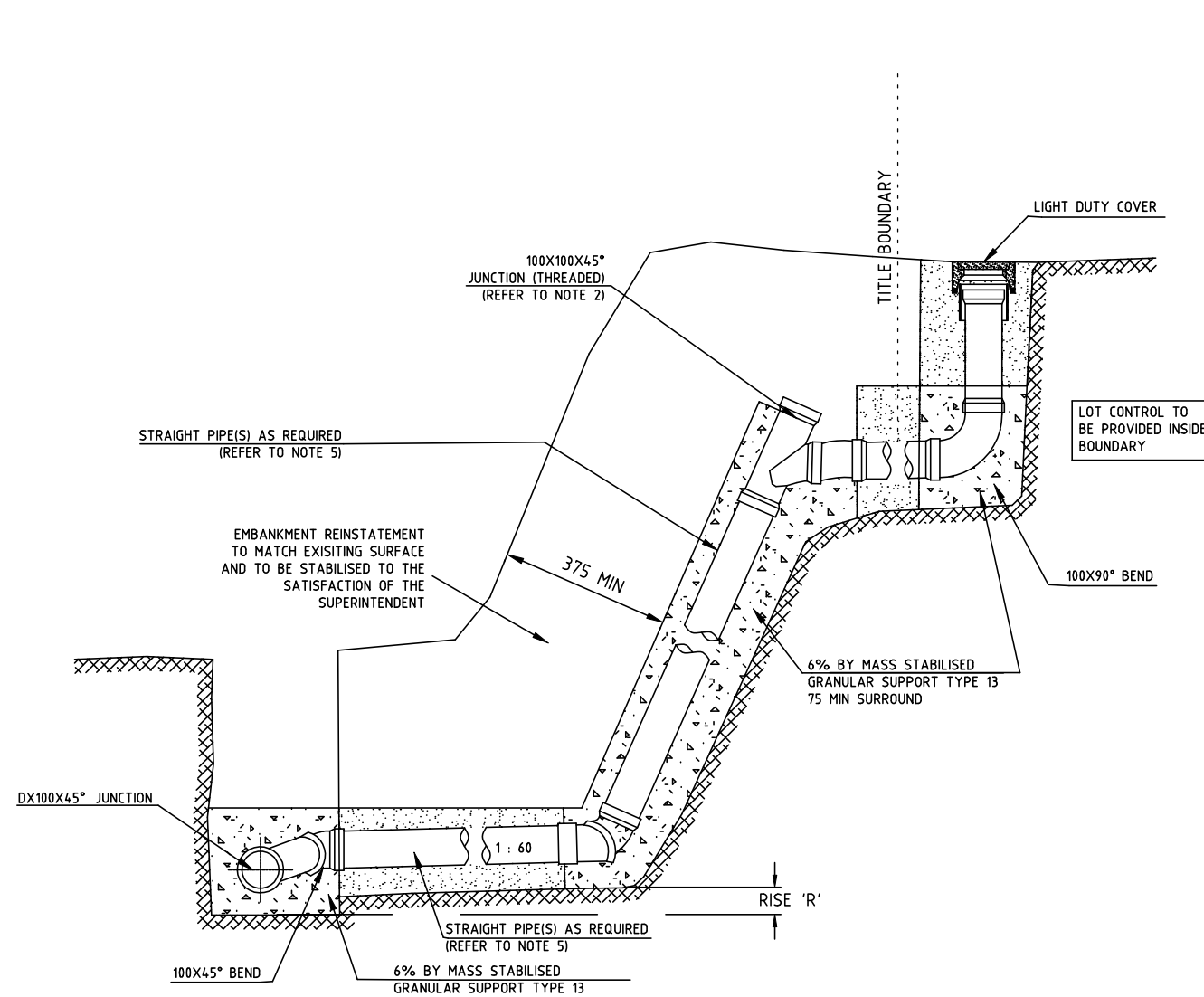
GENERAL NOTES

- TYPE 2, 2A AND 4 ARE ONLY FOR USE ON DEEP SEWERS AND MUST BE APPROVED BY COLIBAN WATER. THE DESIGN IS TO PROVIDE FULL LOT CONTROL FOR THE LOT IT SERVICES.
- PROPERTY BRANCH TYPES 3 & 5 MAY BE USED WHEN AUTHORISED BY COLIBAN WATER AND MUST BE CLEARLY LABELLED ON THE DESIGN DRAWINGS
- FOR PROPERTY BRANCH SEWER TYPE 3 WHERE THE SLOPE IS 1 IN 1 OR FLATTER A SINGLE PIPE BEND MAY BE USED AT THE BOTTOM OF THE SLOPE.
- FOR PROPERTY BRANCH SEWERS TYPE 3 AND 5 WHERE THE GRADE OF THE SLOPES IS 1 IN 1 OR FLATTER THE JUNCTION AT THE TOP OF THE SLOPE MAY BE REPLACED BY BEND(S) TO SUIT.
- ABBREVIATED DRAWINGS TYPE 2A AND 4A TO BE CONSTRUCTED WITH SHAFT MIN 600mm INSIDE PROPERTY TO BE SERVICED. THEY MUST BE ONLY UTILISED WHERE SPECIFIED ON THE DRAWINGS.
- THE 45° JUNCTION MUST BE SET AT AN ANGLE TO ACHIEVE THE REQUIRED LEVEL GRADE AND DIRECTION FOR THE PROPERTY BRANCH SEWER
- PROPERTY BRANCH SEWERS MUST BE CONSTRUCTED WITH SUFFICIENT HORIZONTAL STRAIGHT PIPES OR 300 MINIMUM SO THAT THE PROPERTY CONNECTION FITTING IS LOCATED WHOLLY WITHIN THE PROPERTY. HOWEVER, WHERE THE CONSEQUENT PROPERTY DRAIN WOULD OTHERWISE BE REQUIRED TO PASS UNDER A STORMWATER DRAIN OR PROPOSED DRAIN OF > DNS25, THE PROPERTY BRANCH MUST BE EXTENDED BEYOND THE STORMWATER DRAIN.
- WHERE THE GRADE OF PIPELINE EXCEEDS 1 IN 5, TYPE 13 SUPPORT (CEMENT STABILISED EMBEDMENT) MUST BE USED. (REF STD DWG SEW - 1205)
- WHERE 150 PROPERTY BRANCH SEWERS SPECIFIED, USE EQUIVALENT 150 DIA FITTINGS.
- 100mm UPVC PIPES MUST NOT BE LAID DEEPER THAN 2.0m COVER OR SHALLOWER THAN 0.6M COVER WITHOUT SPECIAL CONSIDERATION OF EMBEDMENT REQUIREMENTS.
- ALL DIMENSIONS IN MILLIMETRES.
- PROPERTY CONNECTIONS ARE TO CONNECT TO THE SEWER MAIN DOWNSTREAM OF THE TMS.
- PROPERTY CONNECTIONS ARE NOT TO CONNECT TO MANHOLES OR MAINTENANCE SHAFTS UNLESS AUTHORISED BY COLIBAN WATER.
- NO PROPERTIES SHALL BE CONNECTED INTO THE RISER SHAFT OF AN MS OR TMS.
- WHERE PROPERTY CONNECTION SEWERS ARE TO BE CONSTRUCTED ADJACENT TO STORM WATER DRAINS, THE PROPERTY CONNECTION SHALL BE EXTENDED A MINIMUM OF 300 BEYOND THE STORM WATER DRAIN OR TO THE EDGE OF THE EASEMENT, TO ELIMINATE THE FUTURE NEED TO CONSTRUCT THE PRIVATE PROPERTY DRAIN BENEATH THE STORM WATER DRAIN.
- PROPERTY CONNECTION SIDELINES ARE TO BE A MAXIMUM OF 3m IN LENGTH UNLESS AUTHORISED BY COLIBAN WATER.
- PROPERTY CONNECTIONS ARE TO TERMINATE A MINIMUM OF 600mm WITHIN THE LOT IT IS SERVICING.
- THE PROPERTY CONNECTION RISER IS TO BE EXTENDED TO THE SURFACE AND CAPPED WITH A LIGHT CONCRETE COVER.
- EW AND VC PIPES ARE NOT TO BE USED FOR PROPERTY CONNECTION SIDE LINES OR RISERS.
- CLASS 3 FCR BACKFILL TO BE USED IN ROAD RESERVE AREAS.
- CLEARANCE MUST BE PROVIDED BETWEEN THREADED ACCESS COUPLING CAP AND LIGHT DUTY COVER TO ALLOW ROTATING OF CAP WITH HANDS.
- THE PROPERTY OWNER/PLUMBER IS RESPONSIBLE FOR THE CUT IN TO THE RISER OF THE PROPERTY CONNECTION AT A HEIGHT TO PROVIDE THE LOT CONTROL REQUIRED. THIS IS TO BE IN ACCORDANCE WITH AS/NZS 3500.2.2

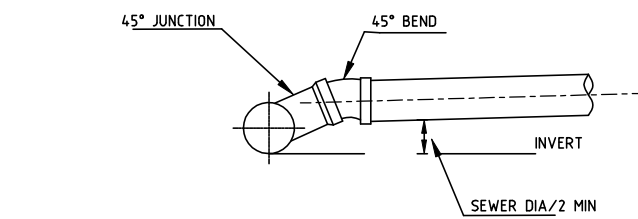


TYPE 2A

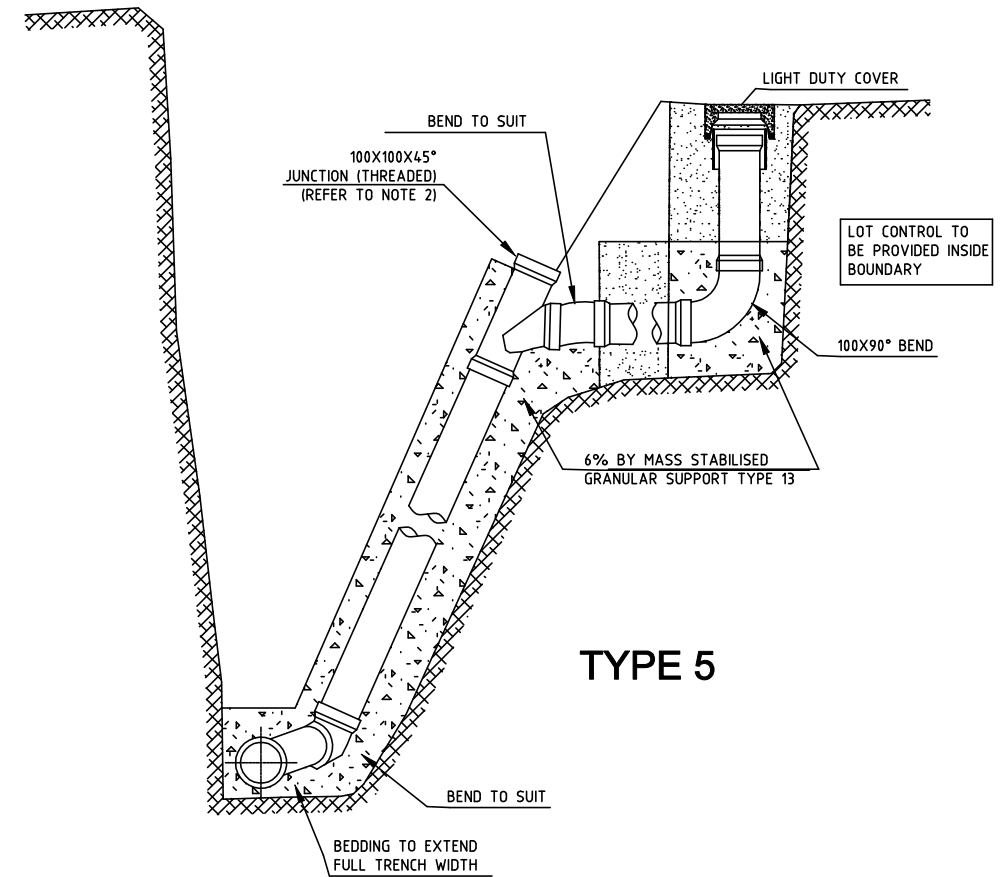
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5			xx	xx							
4			July 2010	July 2010							
3			Approved								
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1	Original Issue	July 2010									
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Ver	Revision Description	Date					Drawing file:	Coliban Ref:	Our Ref:	Version	Sheet
							detail-dwg		10078	1	1 of 3



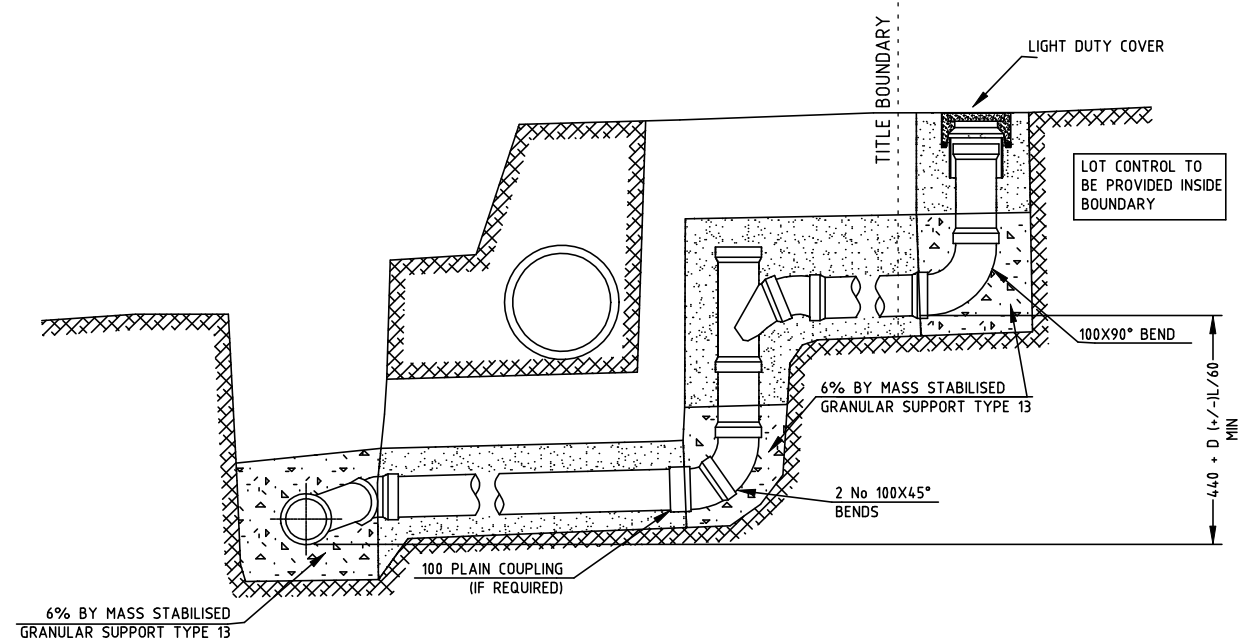
TYPE 3



MINIMUM LEVEL CONNECTION DETAIL



TYPE 5



TYPE 4

6		
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3		
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1	Original Issue	July 2010
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Ver	Revision Description	Date

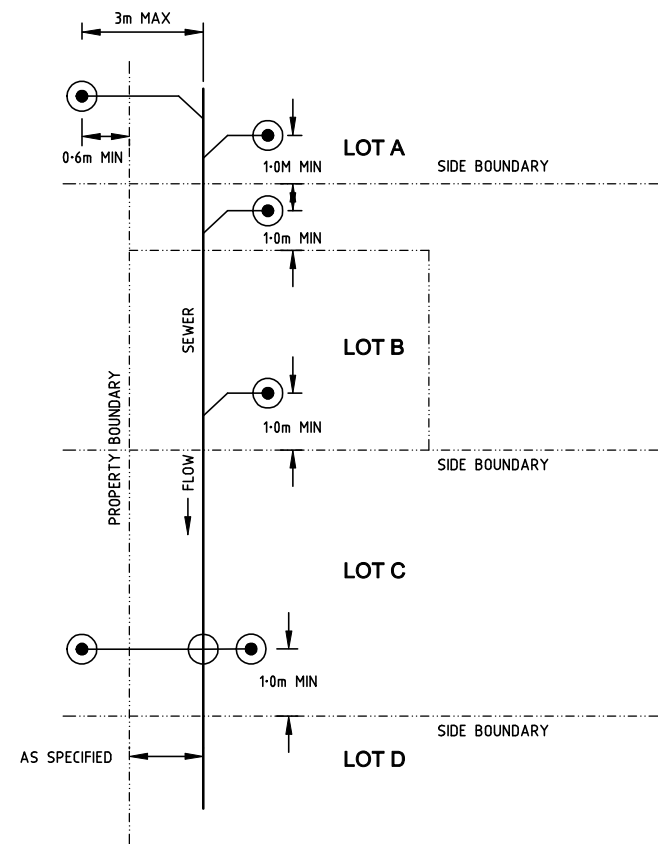
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Approved	

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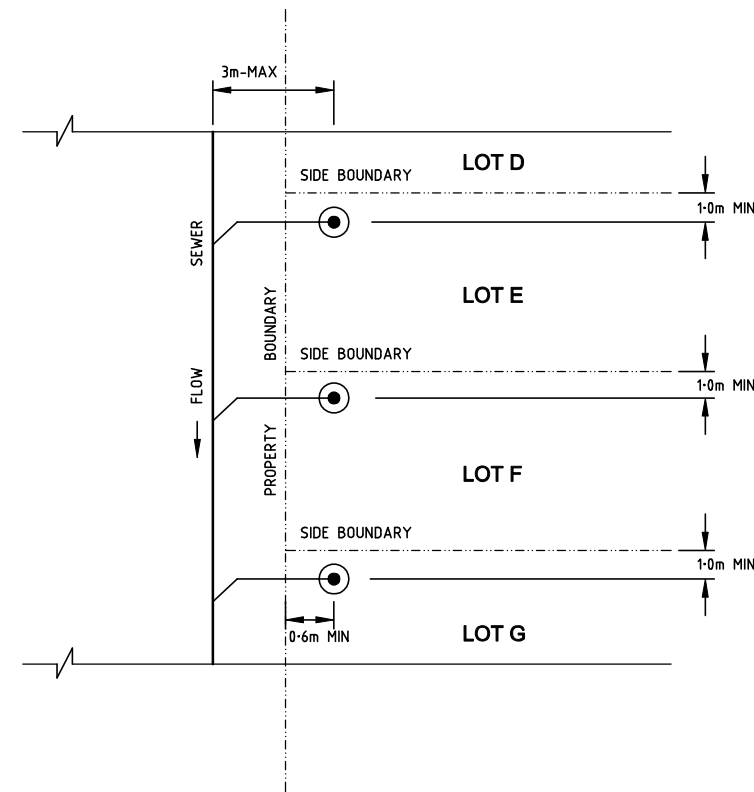


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Coliban Water			
Property Connection Details 2			
Coliban Ref:	Our Ref:	Version	Sheet
	10078	1	2 of 3



**PROPERTY CONNECTION DETAILS
INSIDE PROPERTY BOUNDARY/EASEMENTS**



**PROPERTY CONNECTION DETAILS
SEWER IN ROAD RESERVE**

LEGEND

- I.O. ● INSPECTION OPENING (RAISED TO SURFACE)
- ACCESS OPENING/RISER/JUMPUP (NOT RAISED TO SURFACE)
- FUTURE PROPERTY DRAIN
- - - - - PROPERTY BOUNDARY

NOTES

1. LOCATE SEWERS AND IO'S AS SHOWN IN THE DESIGN DRAWINGS.
2. REFER TO ADDENDUM DRAWING FOR PROPERTY CONNECTION DETAILS.
3. MINIMUM 2.5m SEWER EASEMENT TO BE PROVIDED OVER ALL RETICULATION SEWERS WITHIN PRIVATE PROPERTY. MINIMUM 3.0m EASEMENT TO BE PROVIDED IF SEWER IS LOCATED ADJACENT TO DRAINAGE.

6			Designed xx July 2010	Checked xx July 2010	Notes/Legend		Scale (m) Not to scale All lengths are in metres and all levels are to Australian Height Datum (Original Sheet Size is A3)	Coliban Water Property Connection Details 3			
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1	Original Issue	July 2010									
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Ver	Revision Description	Date					Drawing file: detail.dwg	Coliban Ref:	Our Ref: 10078	Version 1	Sheet 3 of 3