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NOTE: THE ENTIRE PLUMBING INSTALLATION IS TO COMPLY WITH THE FULL REQUIREMENTS OF THE LOCAL REGULATORY AUTHORITY, A.S3500 AND THE PLUMBING AND THE BUILDING CODES OF AUSTRALIA.

NOTE: THE PLUMBING CONTRACTOR MUST VISIT THE SITE DURING THE TENDERING PERIOD IN ORDER TO FAMILIARISE THEMSELVES WITH EXISTING SITE CONDITIONS AND MAKE THE NECESSARY ALLOWANCE FOR SUCH IN THE TENDER.

NOTE: THE TENDERER MUST READ THIS DRAWING IN CONJUNCTION WITH THE PROJECT DRAWINGS FROM THE ARCHITECT.

NOTE: THE NOMINAL SIZES OF PIPELINES NOTED ON THE DRAWINGS ARE BASED ON STANDARD COPPER PIPELINE INTERNAL BORES. IN THE EVENT OF AN ALTERNATIVE PIPELINE MATERIAL BEING ACCEPTED BY THE SUPERINTENDENT, IT IS THE PLUMBING CONTRACTORS RESPONSIBILITY TO ENSURE THAT AN EQUIVALENT INTERNAL PIPELINE BORE IS INSTALLED IN ACCORDANCE WITH APPENDIX J OF AS 3500.1.



McCallum
PFCA
Plumbing + Fire Consultants Australia

HYDRAULIC SERVICES

LEGEND

LEGEND																	
ABBREVIATIONS			ABBREVIATIONS			ABBREVIATIONS			PIPELINES			SYMBOLS		SYMBOLS		SYMBOLS	
AAV	AIR ADMITTANCE VALVE		FW	FLOOR WASTE		S	SHOWER			EC	COLD WATER - EXISTING		FIXTURE CONNECTION		HOT WATER UNIT		OVERFLOW GULLY
AC	ACCESS CHAMBER		H	HAND BASIN		SS	SOIL STACK			C	COLD WATER - NEW		PIPEWORK DROPPER		RAINCHANGER SYSTEM		INSPECTION SHAFT
BD	BALCONY DRAIN		HT	HOSE TAP		ST	STORMWATER			H	HOT WATER - NEW		LINE CAP		PUMP		ACCESS CHAMBER
CO	CLEAROUT		HW	HOT WATER		T	LAUNDRY TUB			RW	RAIN WATER - NEW		WATER SUPPLY RISER		HOSE TAP		AIR ADMITTANCE VALVE
CPBSC	CHROME PLATED BRASS SCREWED CLEAROUT		IL	INVERT LEVEL		UPVC	UNPLASTICISED POLYVINYL CHLORIDE			ES	SANITARY DRAINAGE - EXISTING		RISER		SANITARY RISER		DOWNPIPE
CW	COLD WATER		IS	INSPECTION SHAFT		VP	VENT PIPE			S	SANITARY DRAINAGE - NEW		SERVICE		CHROME PLATED BRASS SCREWED CLEAROUT		BALCONY DRAIN
DP	DOWNPIPE		K	KITCHEN SINK		W	WATER CLOSET			SW	STORMWATER DRAINAGE - NEW		DROPPER		FLOOR WASTE		STREET HYDRANT
DPS	DOWNPIPE SPREADER		OF	OVERFLOW		WM	WASHING MACHINE				ELECTRICAL WIRING		ISOLATION VALVE				STORMWATER RISER
DW	DISHWASHER		OG	OVERFLOW GULLY		WS	WASTE STACK						SUB WATER METER				
EX	EXISTING		RW	RAINWATER									MAIN METER ASSEMBLY				

NOTES: SANITARY DRAINAGE

1. DRAINS BELOW GROUND UNDER BUILDINGS MAY BE LAID WITH LESS THAN THE MINIMUM COVER OF 450mm PROVIDED THAT 25mm OF OVERLAY SEPARATES THE DRAIN FROM THE REINFORCED CONCRETE SLAB.
2. DRAINS PASSING THROUGH WALLS AND FOOTINGS SHALL BE INSTALLED WITH AN ANNULAR SPACE OF NOT LESS THAN 25mm.
3. COORDINATE THE INSTALLATION OF SANITARY SERVICES WITH OTHER SERVICES.
4. LOCATE, EXCAVATE AND VERIFY THE SUITABILITY OF THE LEVEL OF THE EXISTING DRAINAGE PIPELINE FOR CONNECTION PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE INSTALLATION WORKS.
5. CONTRACTORS ARE TO ALLOW FOR ALL BENDS, OFFSETS, RISERS AND DROPPERS TO ALL OF THE PIPEWORK NECESSARY TO ACHIEVE A FULLY FUNCTIONING, COORDINATED COMPLIANT INSTALLATION.
6. ALL INGROUND PIPEWORK IS TO BE ENCASED IN 7-16mm GRAVEL WITH DETECTABLE MARKER TAPE AND SAND LAID OVER.
7. ALL HAND BASIN WASTES ARE TO BE P-TAP TYPE WITH DROPPERS CONCEALED WITHIN THE WALL.
8. THE MAIN SEWER CONNECTION POINT AND SHAFT IS TO BE 150mm.
9. ALL SANITARY DRAINAGE IS TO BE CONSTRUCTED IN THE MATERIAL NOMINATED ON THE DRAWINGS AND TO THE REQUIREMENTS OF THE RELEVANT CODES AND AUTHORITIES. MINIMUM GRADE SHALL BE OF 1 IN 60 (1.65%) OR AS OTHERWISE SPECIFIED.
10. WHERE DRAINAGE LEVELS PERMIT, ALL BRANCH LINES SHALL BE GRADED AND/OR LOWERED TO AVOID PENETRATING FOOTING BEAMS UNLESS SHOWN OTHERWISE. THE CONTRACTOR SHALL ALLOW FOR ADDITIONAL PIPE LENGTHS AND WORK DURING CONSTRUCTION INCLUDING ADDITIONAL INSPECTION OPENINGS IN THE SYSTEM AS REQUIRED.
11. PROVIDE INSPECTION OPENINGS IN THE SYSTEM AS REQUIRED BY A §3500.2.2 SEC 4.7 OR AS REQUIRED BY THE RELEVANT AUTHORITY.
12. ALL VENTS ARE TO TERMINATE WITH A VENT COWL AND OVER FLASHING ABOVE THE ROOF LEVEL, ROOF TO BE LEFT WATERTIGHT.
13. ALL PIPEWORK TO BE TESTED TO AS 3500 REQUIREMENTS.
14. ALL EXISTING SEWER CONNECTIONS TO BE DISUSED SHALL BE SEALED AT THE CLOSEST POINT TO THE MAIN LINE AND TO THE RELEVANT CODES AND AUTHORITIES REQUIREMENTS.
15. ALL VENTS SHALL BE OFFSET IN THE ROOF SPACE A MINIMUM OF 600mm FROM EAVES AND BOX GUTTERS OR AS SHOWN ON DRAWINGS.
16. FLOORWASTES TO HAVE 'GRATE SEAL' INSTALLED WHERE TUBS ARE CONNECTED TO THEM.
17. ALL EXPOSED FIXTURE CONNECTION PIPELINES WITHIN THE BUILDING CONNECTING TO FIXTURES ARE TO BE CHROME PLATED.
18. IN WATER CHARGED GROUND THE WATER LEVEL SHALL BE LOWERED BELOW THE PROPOSED TRENCH AND MAINTAINED AT THAT LEVEL DURING CONSTRUCTION AND BACKFILLING.

NOTES: SANITARY STACK DRAINAGE

1. ALL PIPEWORK IS TO BE UPVC DWV GRADE UNLESS NOTED OTHERWISE.
2. COORDINATE THE INSTALLATION OF ALL PIPEWORK WITH OTHER SERVICES.
3. PIPEWORK PASSING THROUGH FIRE RATED WALLS, FLOORS, CEILING VOIDS AND WHERE NOTED IS TO BE FIRE RATED TO AS4072 OR AS SPECIFIED.
4. CONTRACTORS TO ALLOW FOR ALL BENDS, OFFSETS, RISERS AND DROPPERS TO ALL OF THE PIPEWORK NECESSARY TO ACHIEVE A FULLY FUNCTIONING, COORDINATED COMPLIANT INSTALLATION.
5. CONCEAL ALL PIPEWORK IN WALLS, CEILING VOIDS, COLUMNS AND DUCTS.
6. ALL PIPEWORK IS TO BE FIXED AT HIGH LEVEL TO THE UNDERSIDE OF THE FLOOR STRUCTURE.
7. ALL PIPES RECEIVING DISCHARGE FROM SOIL FIXTURES SHALL BE PROVIDED WITH AN INSPECTION OPENING AND EXPANSION JUNT AT THE BASE OF EVERY SANITARY STACK DRAINAGE RISER.
8. ALL PIPEWORK TO BE TESTED TO AS 3500 REQUIREMENTS.
9. ALL EXPOSED PIPELINES WITHIN THE BUILDING CONNECTING TO FIXTURES ARE TO BE CHROME PLATED.

NOTES: STORMWATER DRAINAGE

1. ALL STORMWATER DRAINAGE IS TO BE CONSTRUCTED IN THE MATERIAL NOMINATED ON THE DRAWINGS AND TO THE REQUIREMENTS OF THE RELEVANT CODES AND AUTHORITIES HAVING MINIMUM GRADES OF 1 IN 100 (1.00%) OR AS OTHERWISE SPECIFIED.
2. CONTRACTORS ARE TO ALLOW FOR ALL BENDS, OFFSETS, RISERS AND DROPPERS TO ALL OF THE PIPEWORK NECESSARY TO ACHIEVE A FULLY FUNCTIONING, COORDINATED COMPLIANT INSTALLATION.

NOTES: COLD WATER

1. COORDINATE THE INSTALLATION OF COLD WATER SUPPLY WITH OTHER SERVICES.
2. PIPEWORK PASSING THROUGH CONCRETE SLABS OR PATHS SHALL BE INSTALLED WITH AN ANNUAL SPACE OF 6mm FOR THE FULL DEPTH OF SLAB PENETRATION.
3. INGROUND PIPEWORK IS TO BE ENCASED IN CLEAN FILL SAND WITH DETECTABLE MARKER TAPE LAID OVER.
4. CONTRACTORS ARE TO ALLOW FOR ALL BENDS, OFFSETS, RISERS AND DROPPERS TO ALL OF THE PIPEWORK NECESSARY TO ACHIEVE A FULLY FUNCTIONING, COORDINATED COMPLIANT INSTALLATION.
5. PIPEWORK PASSING THROUGH FIRE RATED WALLS, FLOORS, CEILING VOIDS AND WHERE REQUIRED TO BE FIRE RATED TO AS4070 OR AS SPECIFIED.
6. ALL FIXTURES ARE REQUIRED TO HAVE SEPARATE ISOLATION VALVES INSTALLED DIRECTLY UNDER UNLESS OTHERWISE SPECIFIED.
7. CONCEAL ALL PIPEWORK IN WALLS, DUCTS AND CEILING VOIDS WHERE PRACTICABLE.
8. HOSE TAP TO BE INSTALLED DIRECTLY OVER FLOW GULLY.
9. ALL PIPELINES TO BE TESTED TO AS 3500 REQUIREMENTS.

NOTES: RAINWATER

1. ALL PIPEWORK TO BE POLYETHYLENE PN12.5 INGROUND OR CROSS LINKED POLYPIPEWORK (REHAU OR EQUIVALENT) ABOVE GROUND.
2. CONCEAL ALL PIPEWORK IN WALLS AND CEILING VOIDS WHERE PRACTICABLE.
3. RAINWATER PIPES ARE TO BE ILIAC IN COLOUR IN ALL LOCATIONS.
4. INGROUND PIPEWORK IS TO BE ENCASED IN CLEAN FILL SAND WITH DETECTABLE MARKER TAPE LAID OVER.
5. PIPEWORK PASSING THROUGH CONCRETE SLABS OR PATHS SHALL BE INSTALLED WITH ANNUAL SPACE OF 6mm FOR THE FULL DEPTH OF SLAB PENETRATION.
6. PIPEWORK PASSING THROUGH FIRE RATED WALLS, FLOORS, CEILING VOIDS TO BE FIRE RATED TO AS4072 OR AS SPECIFIED.
7. CONTRACTORS ARE TO ALLOW FOR ALL BENDS, OFFSETS, RISERS AND DROPPERS TO ALL OF THE PIPEWORK NECESSARY TO ACHIEVE A FULLY FUNCTIONING, COORDINATED COMPLIANT INSTALLATION.
8. ALL PIPELINES TO BE TESTED TO AS 3500 REQUIREMENTS.

NOTES: HOT/WARM WATER

1. ALL HOT AND WARM WATER PIPING IS TO BE INSULATED WITH THERMOSEAL SEALED TUBE 1/2 (15mm) MINIMUM IN ORDER TO COMPLY WITH BCA PART J 7.2) IN WALLS, CEILING AND WHERE EXPOSED UNLESS SPECIFIED OTHERWISE.
2. CONTRACTORS ARE TO ALLOW FOR ALL BENDS, OFFSETS, RISERS AND DROPPERS TO ALL OF THE PIPEWORK NECESSARY TO ACHIEVE FULLY FUNCTIONING COORDINATED COMPLIANT INSTALLATION.
3. COORDINATE THE INSTALLATION OF HOT/WARM WATER SUPPLY WITH OTHER SERVICES.
4. CONCEAL ALL PIPEWORK IN WALLS, DUCTS AND CEILING VOIDS WHERE PRACTICABLE.
5. ALL FIXTURES ARE TO HAVE SEPARATE ISOLATING VALVES INSTALLED DIRECTLY UNDER UNLESS OTHERWISE SPECIFIED.
6. PIPEWORK PASSING THROUGH FIRE RATED WALLS, FLOORS, CEILING VOIDS AND WHERE REQUIRED IS TO BE FIRE RATED TO AS4072 OR AS SPECIFIED.
7. ALL PIPELINES TO BE TESTED TO AS 3500 REQUIREMENTS.

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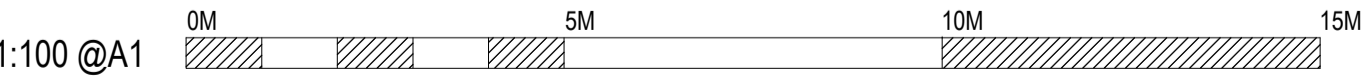
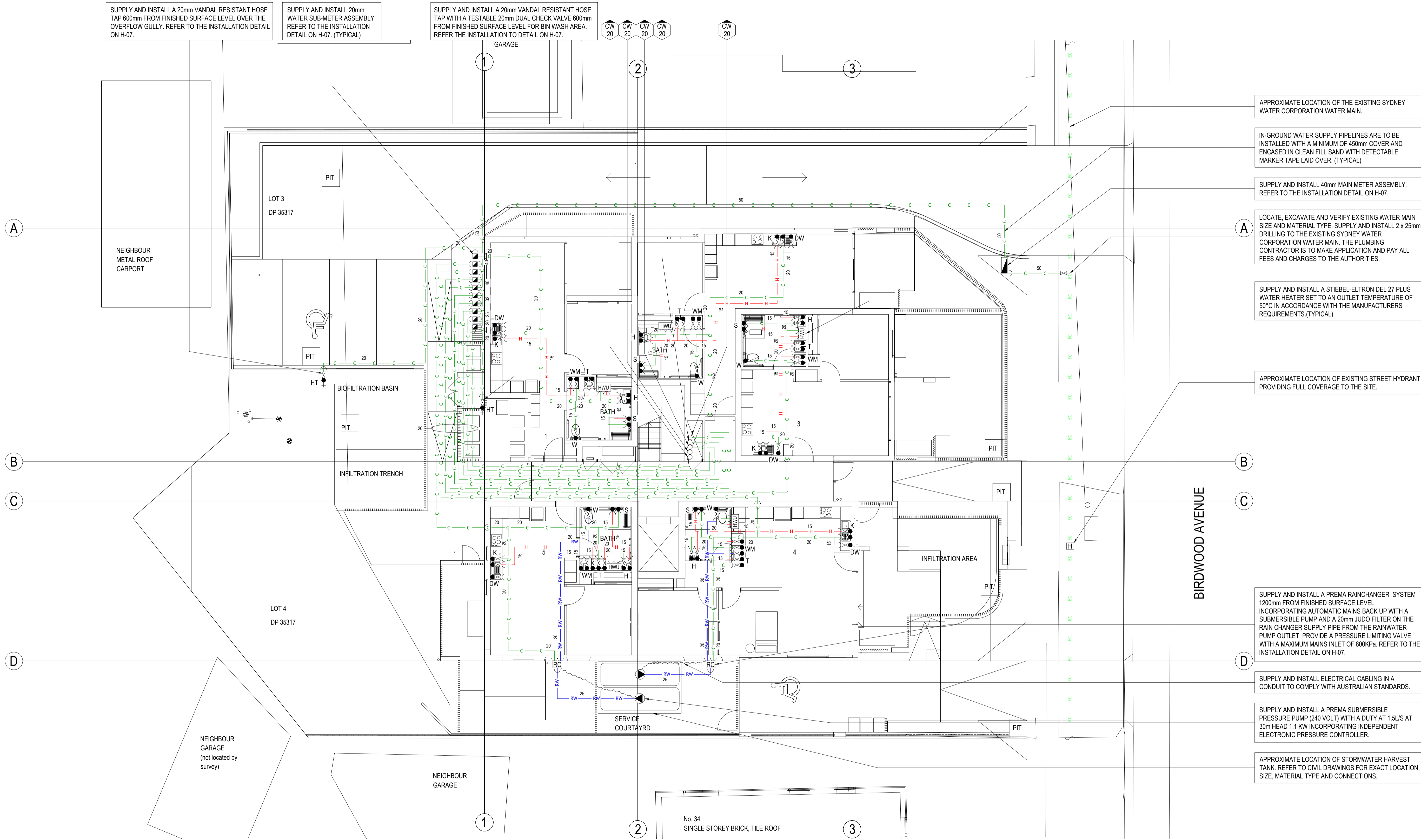


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CLIENT:	CKDS ARCHITECTURE
PROJECT:	LAHC PAGEWOOD DEVELOPMENT 36-38 BIRDWOOD AVENUE, PAGEWOOD NSW TITLE, LEGEND AND NOTES SHEET

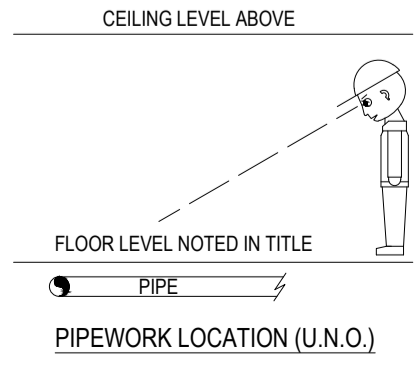
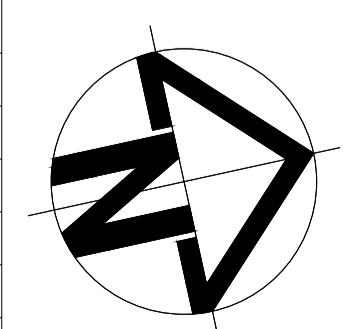
Drawn N.CHHETRI	PRELIMINARY-75%		Size A1
Design B.McCALLUM	Scale N.T.S.	Job No. 4713-1121D	No. in Set 7
Approved R.McCALLUM	DRG. No. H-01		Revision 2

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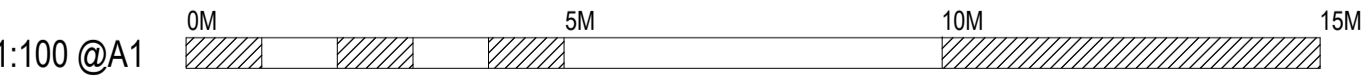
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CLIENT:	CKDS ARCHITECTURE
PROJECT:	LAHC PAGEWOOD DEVELOPMENT 36-38 BIRDWOOD AVENUE, PAGEWOOD NSW SITE & GROUND FLOOR - HYDRAULIC SERVICES

Drawn	N.CHHETRI
Design	B.McCALLUM
Approved	R.McCALLUM

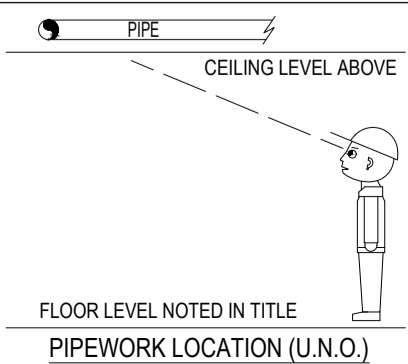
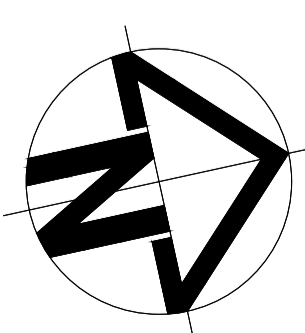
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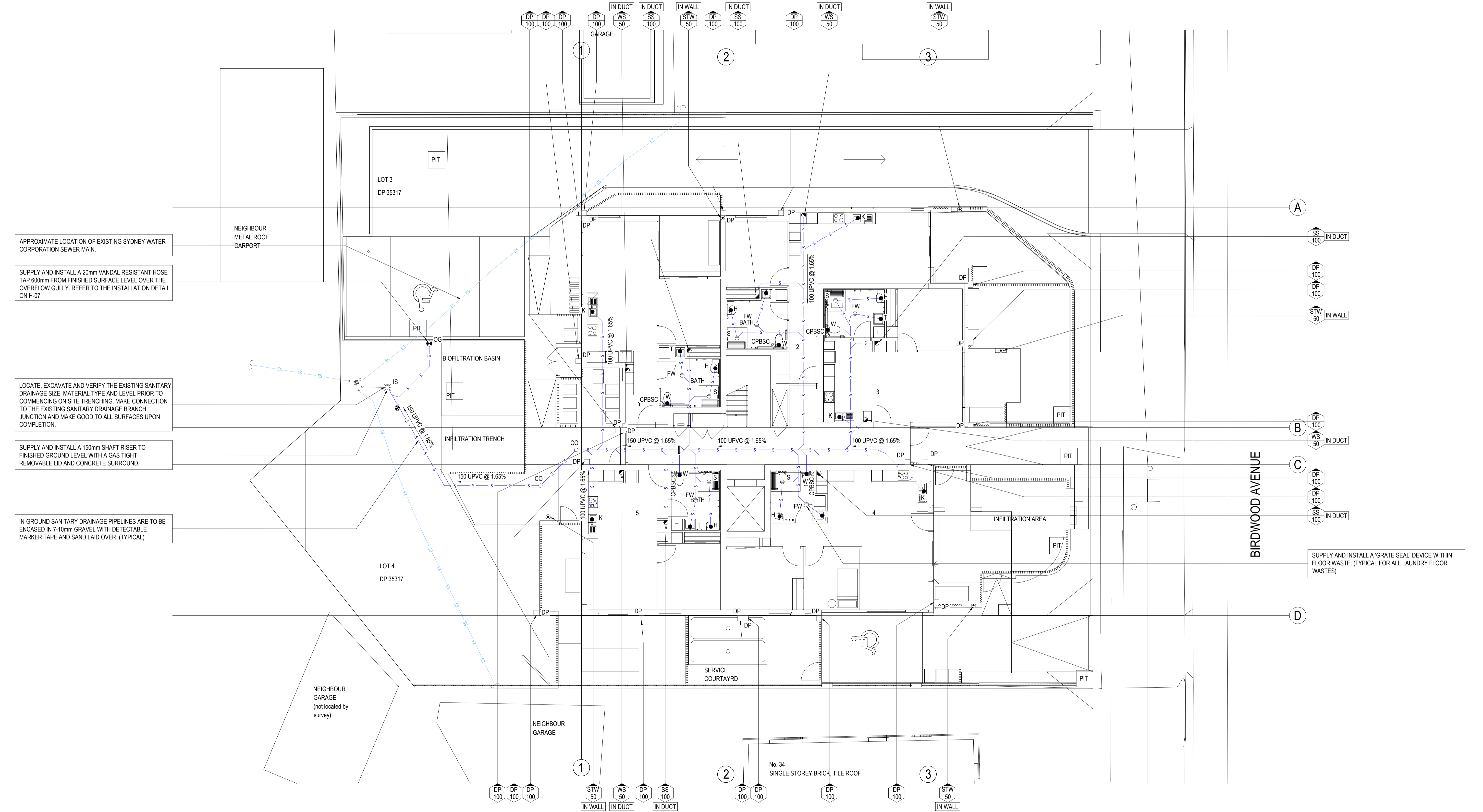
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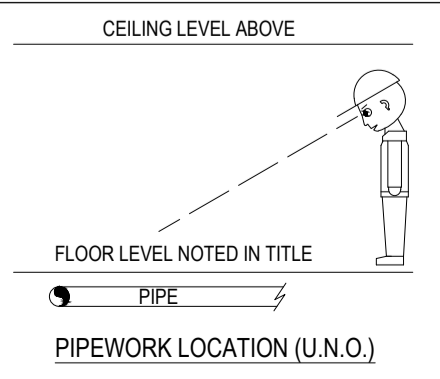
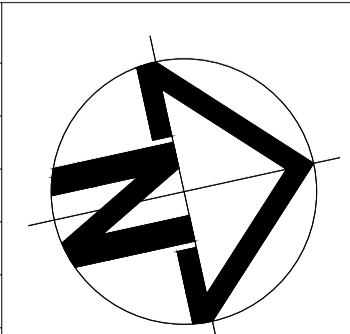
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PROJECT:	LAHC PAGEWOOD DEVELOPMENT 36-38 BIRDWOOD AVENUE, PAGEWOOD NSW FIRST FLOOR - HYDRAULIC SERVICES	Approved	R.McCALLUM	DRG. No.	H-03		No. in Set 7
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CLIENT:	CKDS ARCHITECTURE
PROJECT:	LAHC PAGEWOOD DEVELOPMENT 36-38 BIRDWOOD AVENUE, PAGEWOOD NSW SITE & GROUND FLOOR - DRAINAGE SERVICES

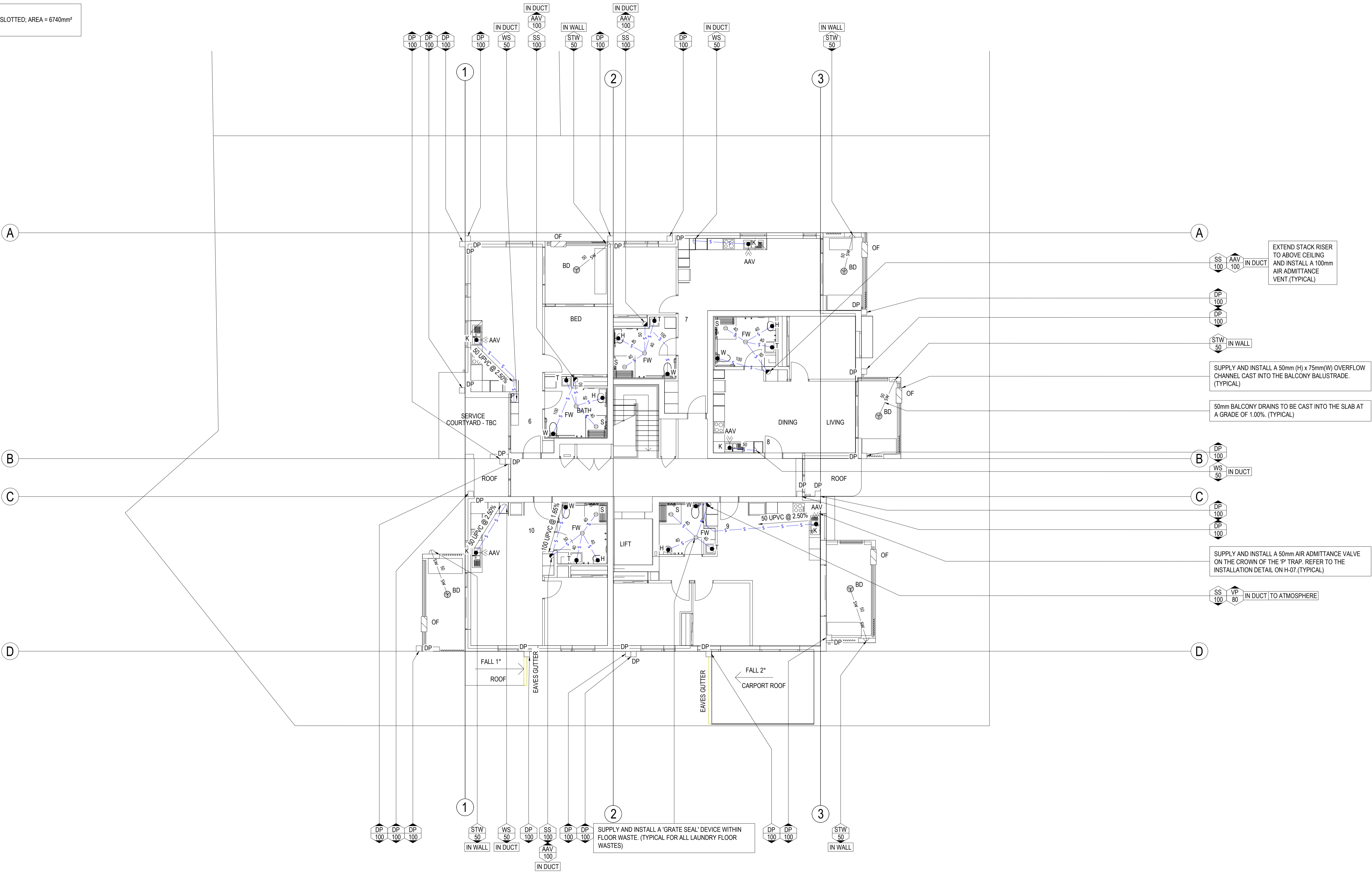
Drawn	N.CHHETRI
Design	B.McCALLUM
Approved	R.McCALLUM

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		Revision	2

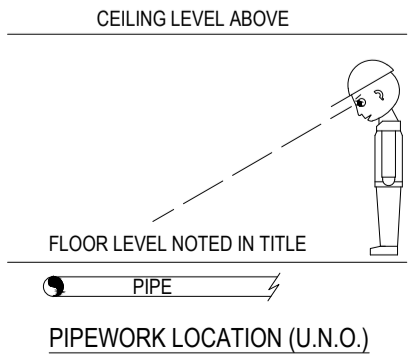
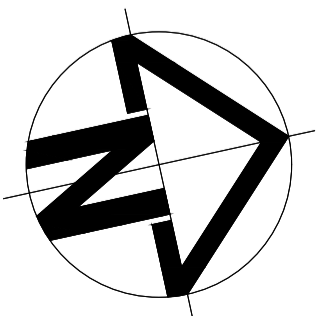
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EAVES GUTTER
- LYSAGHT HALF ROUND 150 NSW UNSLOTTED; AREA = 6740mm²
- DOWN PIPE SIZE = 100mm



1:100 @A1		
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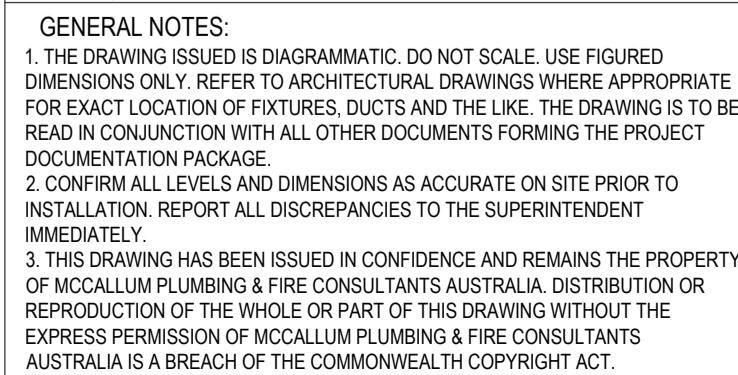
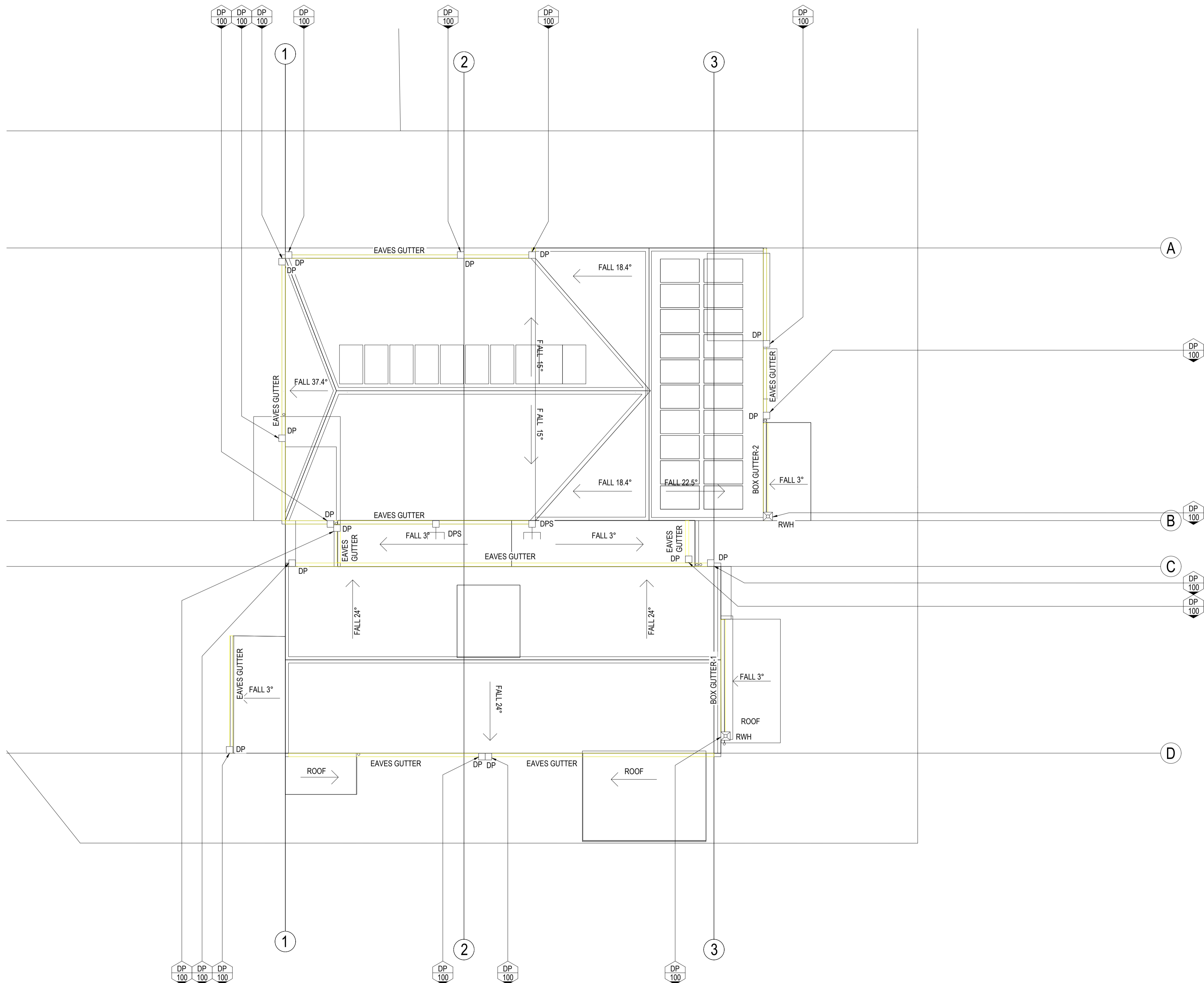
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CLIENT:	CKDS ARCHITECTURE
PROJECT:	LAHC PAGEWOOD DEVELOPMENT 36-38 BIRDWOOD AVENUE, PAGEWOOD NSW FIRST FLOOR - DRAINAGE SERVICES

Drawn	N.CHHETRI
Design	B.McCALLUM
Approved	R.McCALLUM

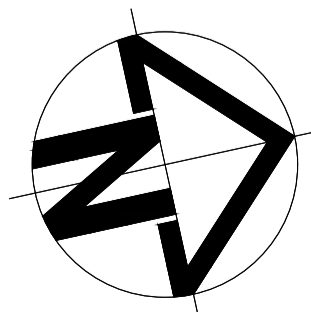
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Scale	1:100	Job No.	4713-1121D
DRG. No.	H-05		Revision
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BOX GUTTER 2:
BOX GUTTER WIDTH = 200mm
BOX GUTTER DEPTH = 105mm
RAIN WATER HEAD WIDTH = 200mm
RAIN WATER HEAD DEPTH = 125mm
RAIN WATER HEAD LENGTH = 120mm
DOWNPIPE SIZE = 100mm



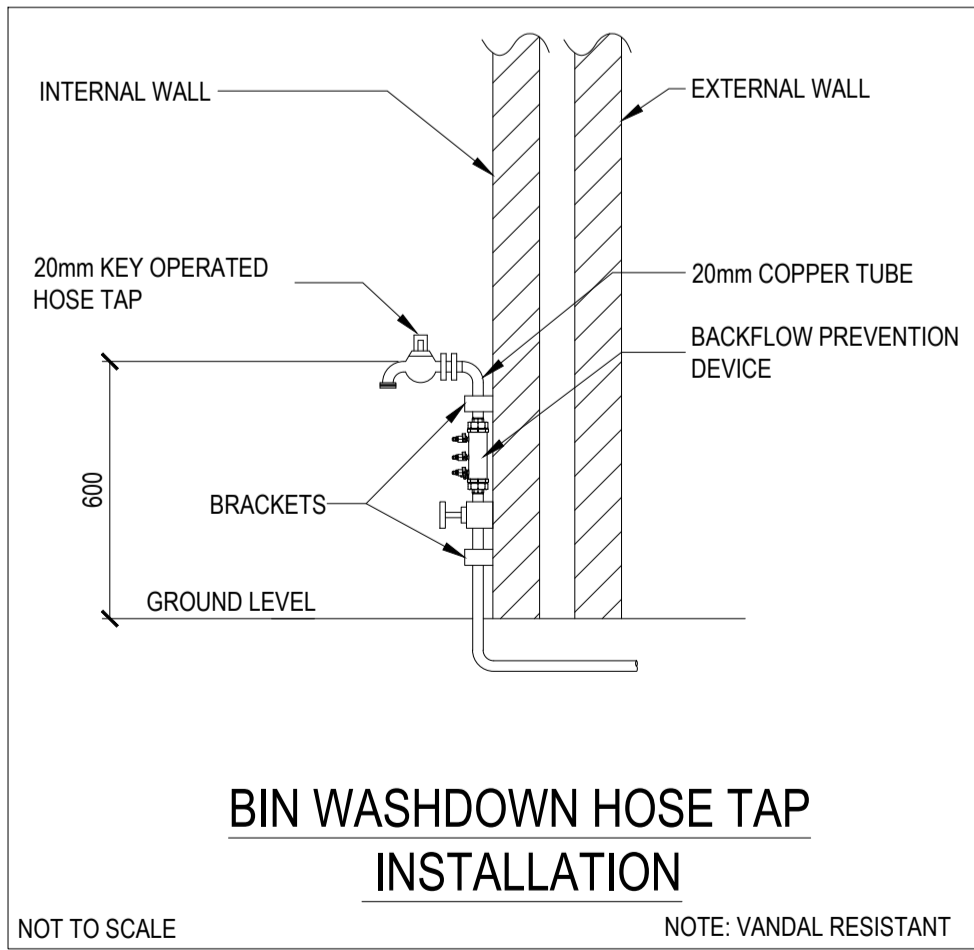
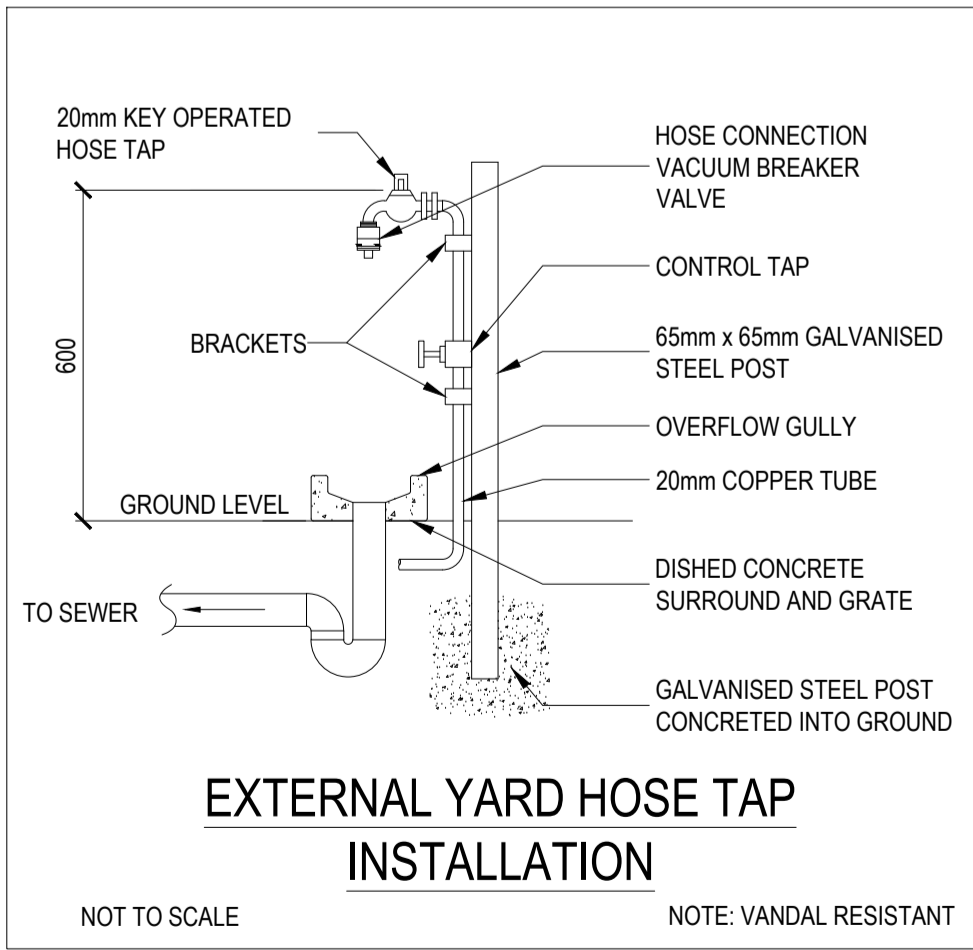
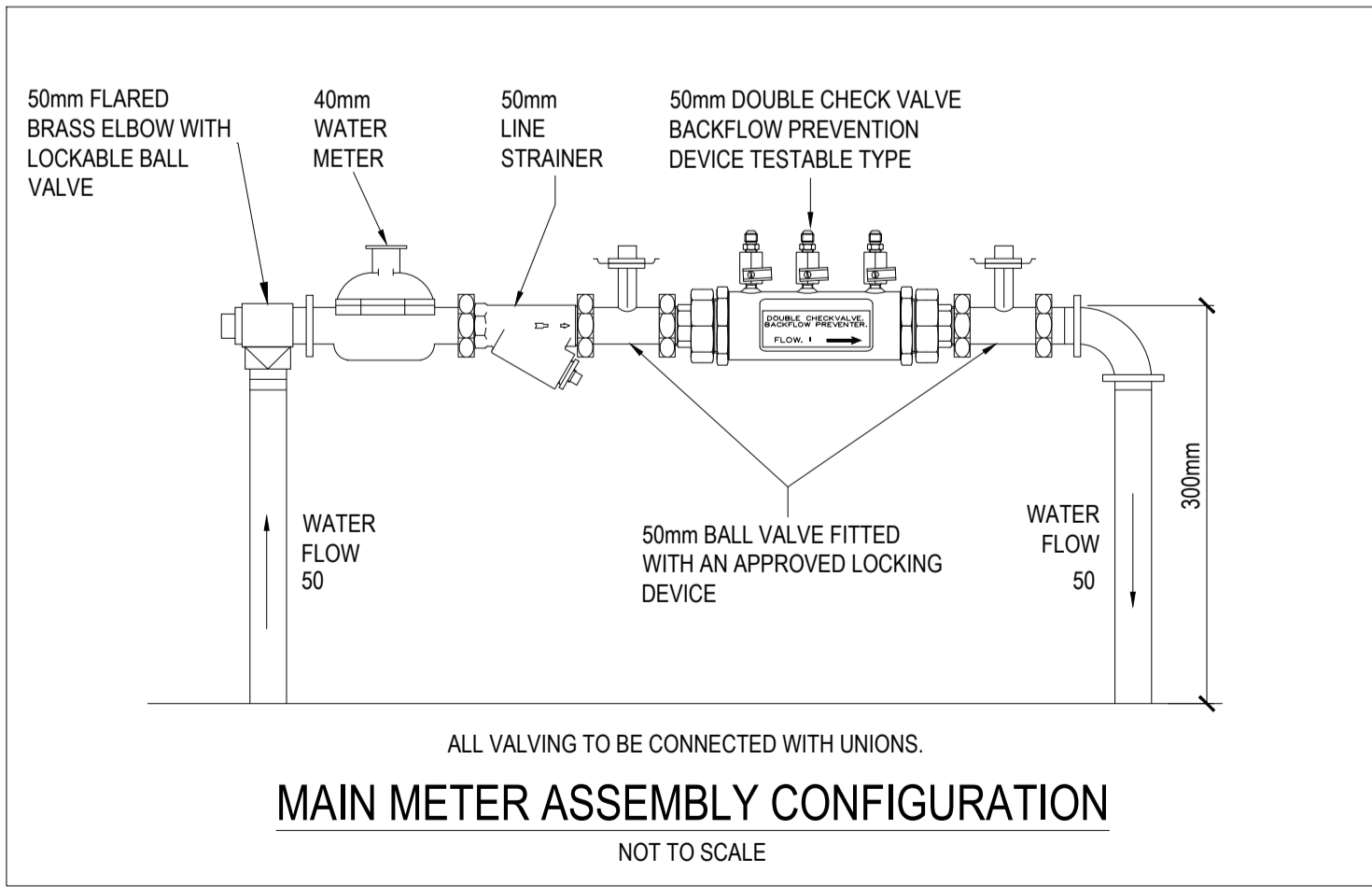
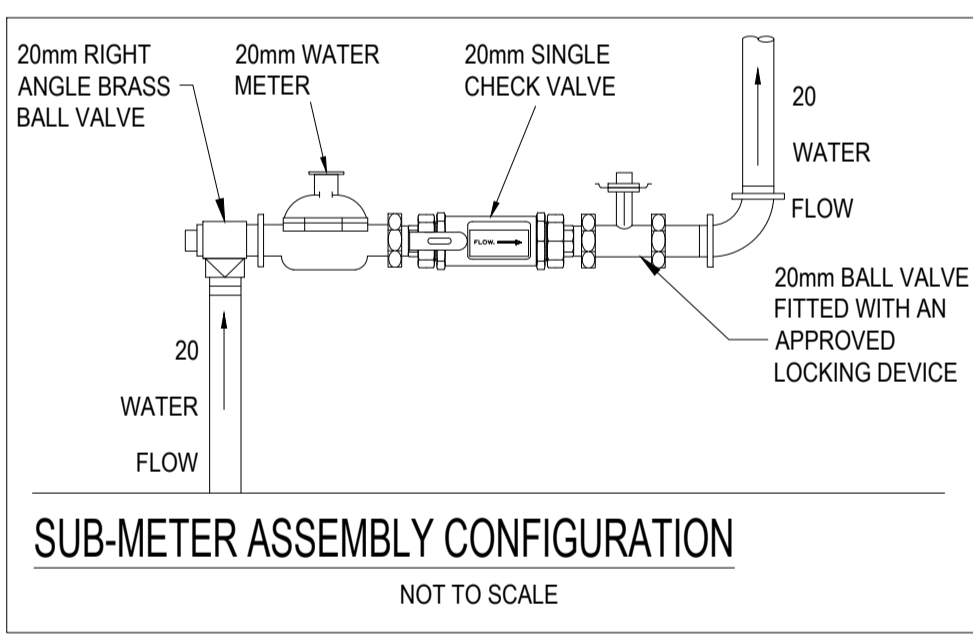
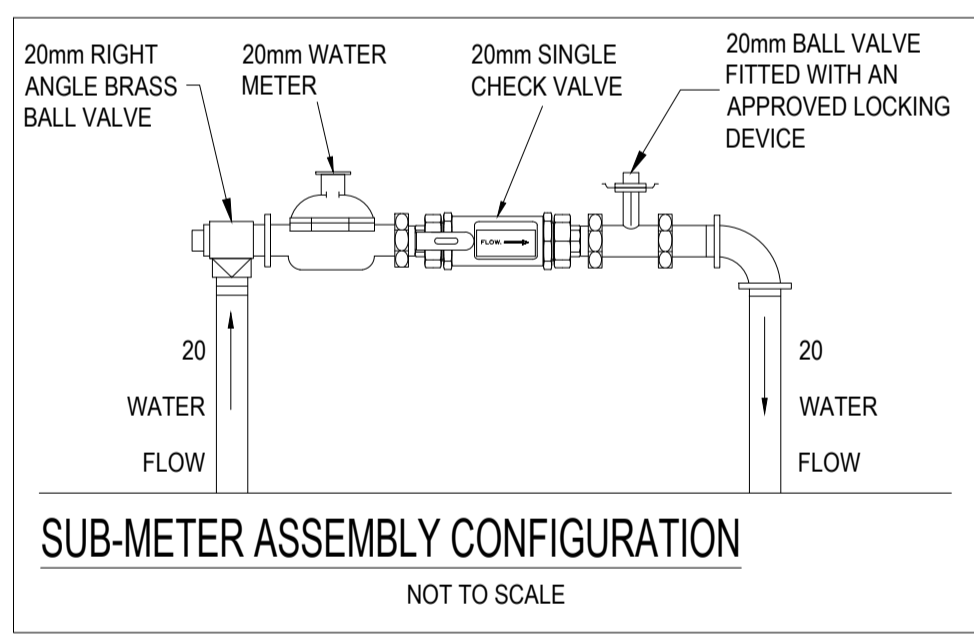
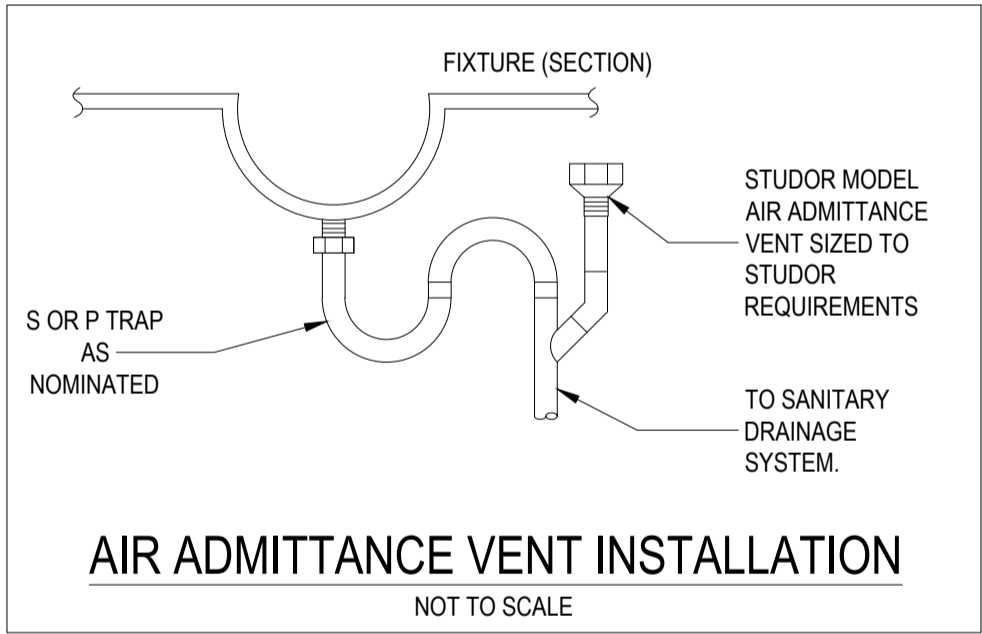
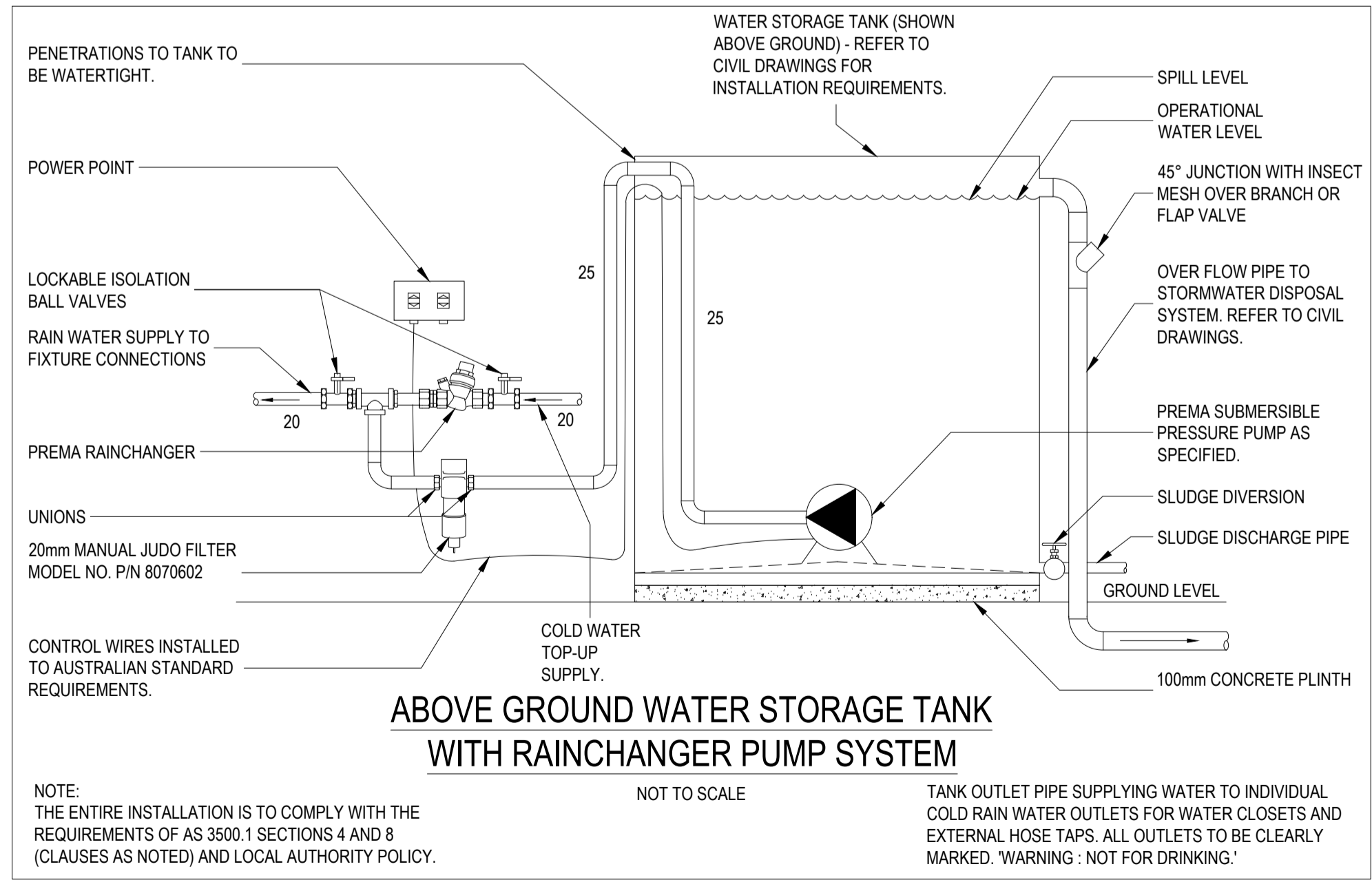
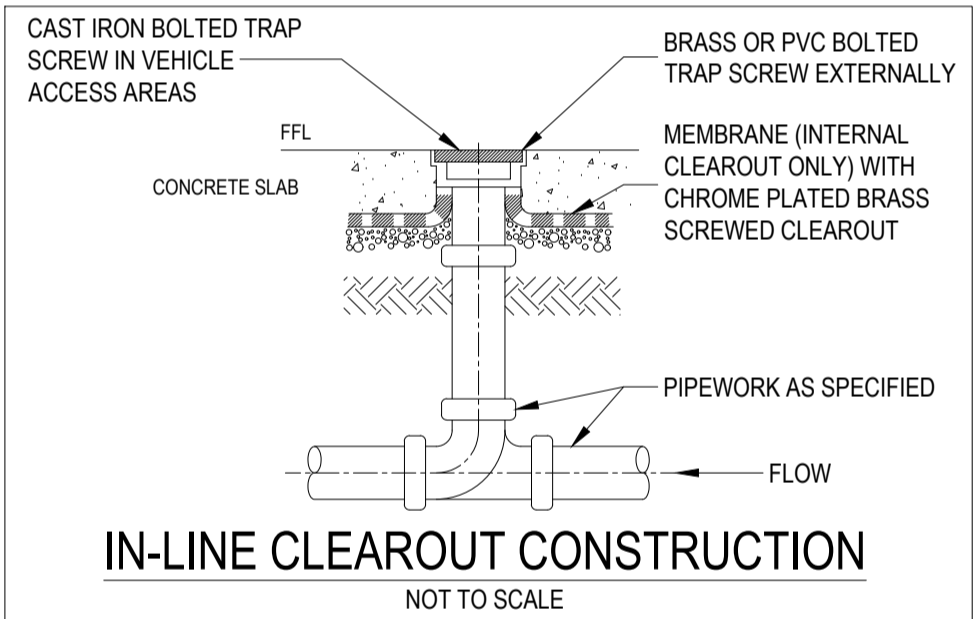
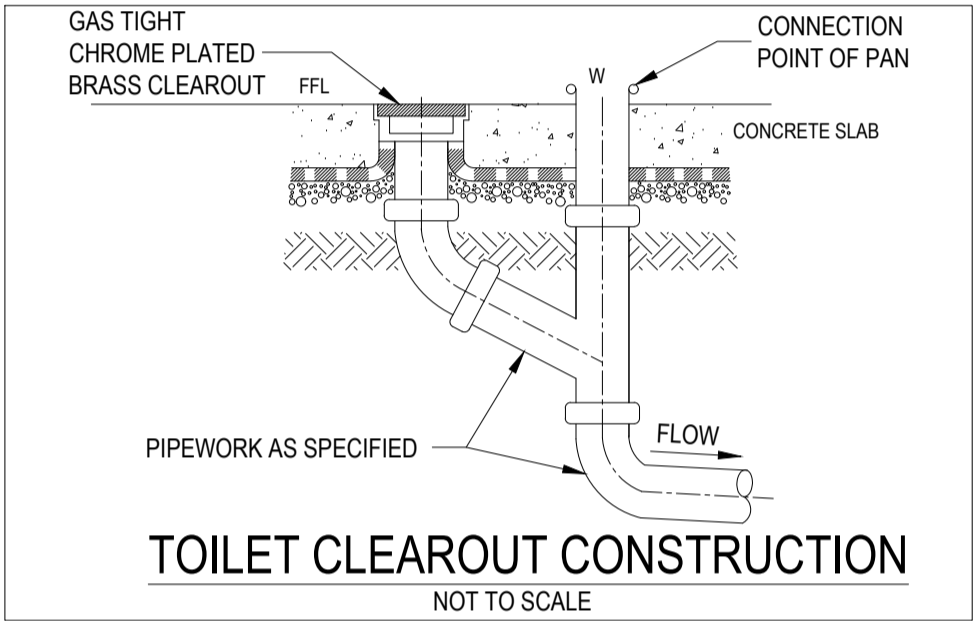
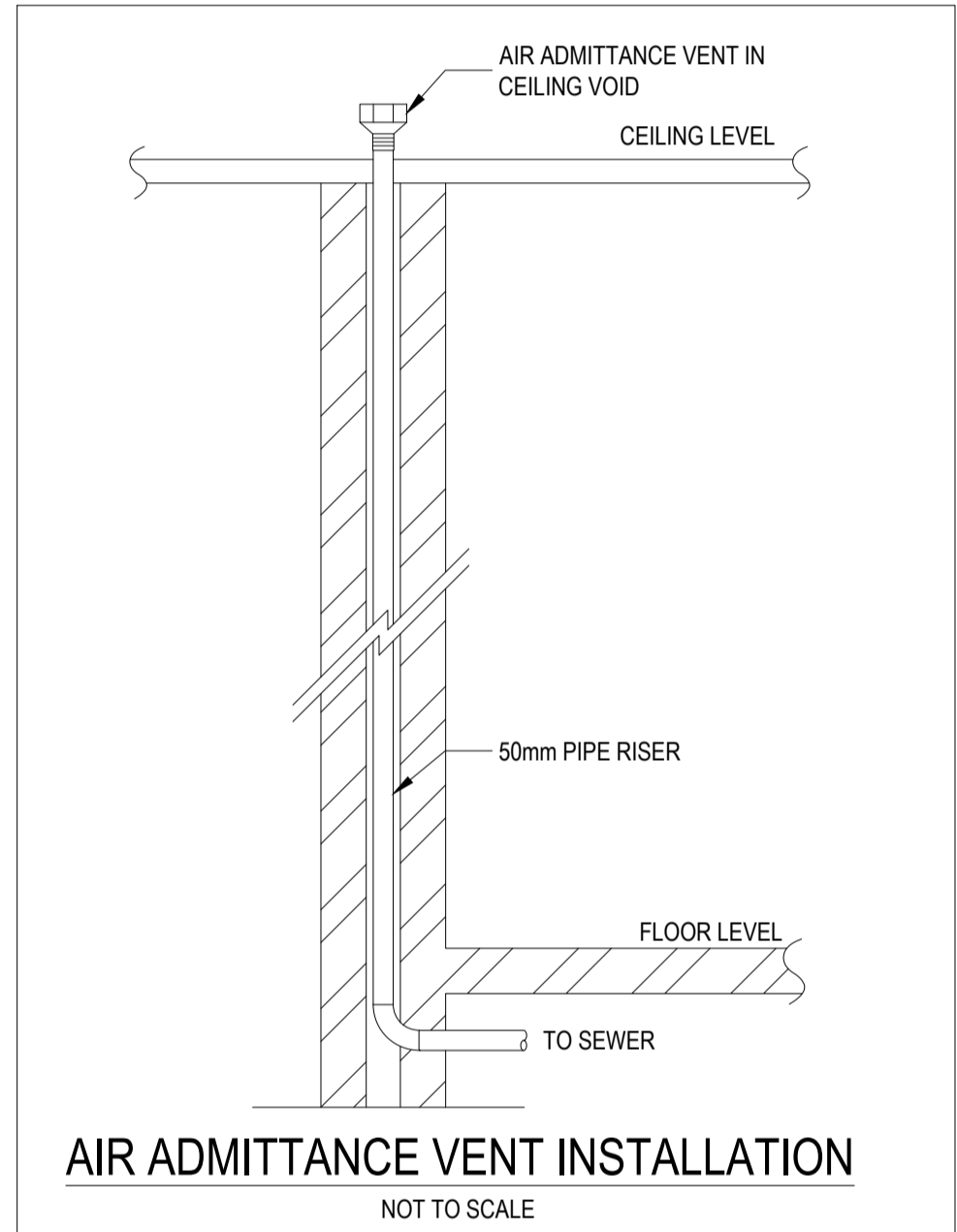
2	27/02/23	REVISED PRELIMINARY-75%
1	15/12/22	PRELIMINARY-75%
REV	DATE	AMENDMENT



ARCHITECT:	CKDS ARCHITECTURE	Drawn	N.CHHETRI		PRELIMINARY-75%		Size	A1				
CLIENT:	CKDS ARCHITECTURE	Design	B.McCALLUM		Scale	1:100	Job No.	4713-1121D	No. in Set	7		
PROJECT:	LAHC PAGEWOOD DEVELOPMENT 36-38 BIRDWOOD AVENUE, PAGEWOOD NSW ROOF DRAINAGE	Approved	R.McCALLUM		DRG. No.				H-06		Revision	2

THIS DRAWING SHOULD BE VIEWED AND PRINTED IN COLOUR TO AVOID LOSS OF INFORMATION.

NOTE: THE ENTIRE PLUMBING INSTALLATION IS TO COMPLY WITH THE FULL REQUIREMENTS OF THE LOCAL REGULATORY AUTHORITY, A.S.3500 AND THE PLUMBING AND THE BUILDING CODES OF AUSTRALIA.



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REV	DATE	AMENDMENT
2	27/02/23	REVISED PRELIMINARY-75%
1	15/12/22	PRELIMINARY-75%



ARCHITECT:	CKDS ARCHITECTURE
CLIENT:	CKDS ARCHITECTURE
PROJECT:	LAHC PAGEWOOD DEVELOPMENT 36-38 BIRDWOOD AVENUE, PAGEWOOD NSW DETAIL SHEET

Drawn	N.CHHETRI	PRELIMINARY-75%		Size	A1
Design	B.McCALLUM	Scale	N.T.S.	Job No.	4713-1121D
Approved	R.McCALLUM	DRG. No.	H-07		Revision
					2