

270  
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# RECTIFICATION WORKS TO VEHICLE IMPACT DAMAGED AWNING AT 3/361 HUME HIGHWAY, BANKSTOWN NSW 2200

| DRAINAGE NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <p><b>PIPE SIZE:</b><br/>THE MINIMUM PIPE SIZE SHALL BE:</p> <ul style="list-style-type: none"><li>· 90mm DIA WHERE THE LINE ONLY RECEIVES ROOFWATER RUNOFF; OR</li><li>· 100mm DIA WHERE THE LINE RECEIVES RUNOFF FROM PAVED OR UNPAVED AREAS ON THE PROPERTY THE MINIMUM PIPE VELOCITY SHOULD BE 0.6 m/s AND A MAXIMUM PIPE VELOCITY OF 6.0 m/s DURING THE DESIGN STORM.</li></ul> <p><b>PIPE GRADE:</b><br/>THE MINIMUM PIPE GRADE SHALL BE:</p> <ul style="list-style-type: none"><li>· 1.0% FOR PIPES LESS THAN 225mm DIA (UNO)</li><li>· 0.5% FOR ALL LARGER PIPES (UNO)</li></ul> <p>PIPES WITH A GRADIENT GREATER THAN 20% WILL REQUIRE ANCHOR BLOCKS AT THE TOP AND BOTTOM OF THE INCLINED SECTION; AND AT INTERVALS NOT EXCEEDING 3.0m ANCHOR BLOCKS ARE DESIGNED ACCORDING TO CLAUSE 3.5.3 OF AS3500.3-1990</p> <p><b>DEPTH OF COVER FOR PVC PIPES:</b><br/>MINIMUM PIPE COVER SHALL BE AS FOLLOWS:</p> |                                                          |
| LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MINIMUM COVER                                            |
| NOT SUBJECT TO VEHICLE LOADING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100mm SINGLE RESIDENTIAL<br>300mm ALL OTHER DEVELOPMENTS |
| SUBJECT TO VEHICLE LOADING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 450mm WHERE NOT IN A ROAD                                |
| UNDER A SEALED ROAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 600mm                                                    |
| UNSEALED ROAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 700mm                                                    |
| PAVED DRIVEWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100mm PLUS DEPTH OF CONCRETE                             |
| SEE AS2032 INSTALLATION OF UPVC PIPES FOR FURTHER INFORMATION. CONCRETE PIPE COVER SHALL BE IN ACCORDANCE WITH AS3725-1989 LOADS ON BURIED CONCRETE PIPES, HOWEVER A MINIMUM COVER OF 450mm WILL APPLY. WHERE INSUFFICIENT COVER IS PROVIDED, THE PIPE SHALL BE COVERED AT LEAST 50mm THICK OVERLAY AND SHALL THEN BE PAVED WITH AT LEAST:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                          |
| <ul style="list-style-type: none"><li>· 150mm REINFORCED CONCRETE WHERE SUBJECT TO HEAVY VEHICLE TRAFFIC;</li><li>· 75mm THICKNESS OF BRICK OR 100mm OF CONCRETE PAVING WHERE SUBJECT TO LIGHT VEHICLE TRAFFIC; OR</li><li>· 50mm THICK BRICK OR CONCRETE PAVING WHERE NOT SUBJECT TO VEHICLE TRAFFIC.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          |
| <p><b>CONNECTIONS TO STORMWATER DRAINS UNDER BUILDINGS:</b><br/>SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 3.10 OF AS3500.3-1990</p> <p><b>CONNECTIONS TO COUNCIL SYSTEM:</b><br/>IF PROPOSED DRAINAGE SYSTEM IS DESIGNED TO CONNECT TO COUNCIL'S DRAINAGE SYSTEM, IT IS ADVISED THAT A 'WORKS PERMIT' IS OBTAINED FROM THE RESPECTIVE COUNCIL PRIOR TO COMMENCEMENT OF WORKS</p> <p><b>ABOVE GROUND PIPEWORK:</b><br/>SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 6 OF AS3500.3-1990</p>                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                          |
| <b>PIT SIZES &amp; DESIGN:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                          |
| DEPTH (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MIN PIT SIZE (mm)                                        |
| ≤ 450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 450x450 OR Ø600                                          |
| > 600 ≤ 900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 600x600 OR Ø900                                          |
| > 900 ≤ 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 600x900 OR Ø1000                                         |
| > 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 900x900 OR Ø1000 WITH STEP IRONS                         |

| DRAINAGE NOTES (CONT)                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ALL PIPES SHOULD BE CUT FLUSH WITH THE WALL OF THE PIT.<br>PITS GREATER THAN 600mm DEEP SHALL HAVE A MINIMUM ACCESS OPENING OF 600 x 600mm. THE GRATED COVERS OF PITS LARGER THAN 600 x 600mm ARE TO BE HINGED TO PREVENT THE GRATE FROM FALLING INTO THE PIT. THE BASE OF THE DRAINAGE PITS SHOULD BE AT THE SAME LEVEL AS THE INVERT OF THE OUTLET PIPE. RAINWATER SHOULD NOT BE PERMITTED TO POND WITHIN THE STORMWATER SYSTEM. |
| <b>TRENCH DRAINS:</b><br>CONTINUOUS TRENCH DRAINS ARE TO BE OF WIDTH NOT LESS THAN 150mm AND DEPTH NOT LESS THAN 100mm. THE BARS OF THE GRATING ARE TO BE PARALLEL TO THE DIRECTION OF SURFACE FLOW.                                                                                                                                                                                                                               |
| <b>STEP IRONS:</b><br>PITS BETWEEN 1.2m AND 6m ARE TO HAVE STEP IRONS IN ACCORDANCE WITH AS1657. FOR PITS GREATER THAN 6m OTHER MEANS OF ACCESS MUST BE PROVIDED.                                                                                                                                                                                                                                                                  |
| <b>PVC PITS:</b><br>PVC PITS WILL ONLY BE PERMITTED IF THEY ARE NOT A GREATER SIZE THAN 450 x 450mm (MAXIMUM DEPTH 450mm) AND ARE HEAVY DUTY.                                                                                                                                                                                                                                                                                      |
| <b>IN-SITU PITS:</b><br>IN-SITU PITS ARE TO BE CONSTRUCTED ON A CONCRETE BED OF AT LEAST 150mm THICK. THE WALLS ARE TO BE DESIGNED TO MEET THE MINIMUM REQUIREMENTS OF CLAUSE 4.6.3 OF AS3500.4-1990. PITS DEEPER THAN 1.8m SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE.                                                                                                                                                         |
| <b>GRATES:</b><br>GRATES ARE TO BE GALVANISED STEEL GRID TYPE. GRATES ARE TO BE OF HEAVY-DUTY TYPE IN AREAS WHERE THEY MAY BE SUBJECT TO VEHICLE LOADING.                                                                                                                                                                                                                                                                          |

| DRAINAGE GENERAL NOTES                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION.                                                                                  |
| ALL SURVEY INFORMATION & PROPOSED BUILDING & FINISHED SURFACE LEVELS SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED FROM DRAWINGS BY OTHERS.                              |
| ALL STORMWATER DRAINAGE PIPES ARE TO BE uPVC AT MINIMUM 1% GRADE UNLESS NOTED OTHERWISE.                                                                                        |
| IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES OR OTHER STRUCTURES WHICH MAY AFFECT/ BE AFFECTED BY THIS DESIGN PRIOR TO COMMENCEMENT OR WORKS. |
| BUILDER TO ALLOW TO FLUSH STORMWATER LINES UPON COMPLETION OF WORKS                                                                                                             |
| ALL PITS WITHIN DRIVEWAYS TO BE 150mm THICK CONCRETE OR EQUAL.                                                                                                                  |
| ALL MATERIALS & WORKMANSHIP TO BE IN ACCORDANCE WITH AS/NZ 3500.3:2003 STORMWATER DRAINAGE, NCC & LOCAL COUNCIL POLICY/CONSENT/REQUIREMENTS.                                    |

| DRAWING SCHEDULE |                                    | REV. |
|------------------|------------------------------------|------|
| SW101            | STORMWATER DRAINAGE NOTES          | B1   |
| SW102            | STORMWATER DRAINAGE CONCEPT PLAN   | B1   |
| SW103            | TYPICAL DRAINAGE DETAILS           | B1   |
| SW103            | EROSION & SEDIMENT CONTROL NOTES   | B1   |
| SW104            | EROSION & SEDIMENT CONTROL PLAN    | B1   |
| SW105            | EROSION & SEDIMENT CONTROL DETAILS | B1   |



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| AMENDMENTS |            |                                    |    |     |
|------------|------------|------------------------------------|----|-----|
| REV        | DATE       | DESCRIPTION                        | BY | CHK |
| B1         | 10.09.2026 | ISSUED FOR DEVELOPMENT APPLICATION | JM | JM  |
|            |            |                                    |    |     |
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|            |            |                                    |    |     |



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DRAWING

PROJECT INFO

STORMWATER DRAINAGE NOTES

RECTIFICATION WORKS TO VEHICLE IMPACT DAMAGED AWNING  
AT 3/361 HUME HIGHWAY, BANKSTOWN NSW 2200  
BUILT BY HAUS #BBH2839



bdqa  
BUILDING DESIGNERS  
ASSOCIATION OF AUSTRALIA

DEVELOPMENT APPLICATION

SCALE: DATE: AUG. 2026

DRAWN: JM CHECKED: JM

APPROVED: DM SHEET: A3

PROJECT No: 202607-7400 DWG No: SW101 REV: B1

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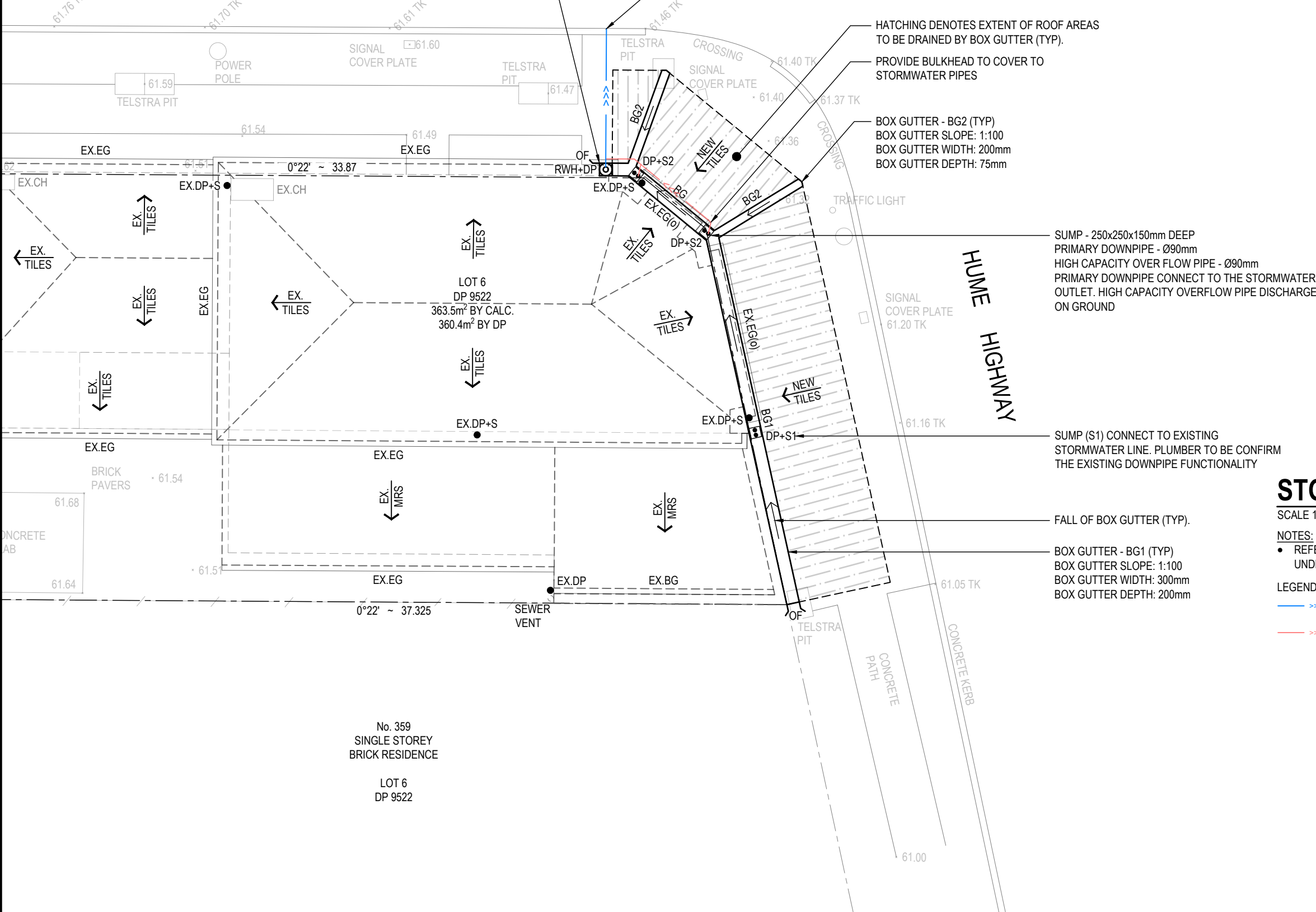
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MEREDITH STREET

RAIN WATER HEAD DEPTH: 115mm  
RAIN WATER HEAD LENGTH: 120mm  
RAIN WATER HEAD WIDTH: 300mm  
ROOF RUN-OFF: 2.5 L/s  
DOWNPIPE: Ø90mm uPVC  
OVERFLOW WIDTH:300mm

CONNECT Ø100mm uPVC OR 100x50x5mm HOT DIPPED GALVANISED RECTANGULAR HOLLOW SECTION TO KERB & GUTTER AT IL: 21.35. PLUMBER TO MAKE SMOOTH CONNECTION TO COUNCIL SATISFACTION. LOCATION OF OUTLET TO BE CONFIRMED ON SITE.

- NOTES:**
- THIS DESIGN HAVE BEEN CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING CODES, STANDARDS AND PRACTICES:
- AS/NZS 3500.3 - STORMWATER DRAINAGE.
  - ALL WORK TO BE IN ACCORDANCE WITH CANTERBURY - BANKSTOWN COUNCIL'S STORMWATER DRAINAGE GUIDLINES & ENGINEERING GUIDE FOR DEVELOPMENT AND WORKS SPECIFICATION CIVIL.
  - LOCATION OF DOWNPIPES ARE INDICATIVE ONLY. DOWNPIPES LOCATION & QUANTITY TO BE DETERMINED BY BUILDER AND IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
  - ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWN PIPES.

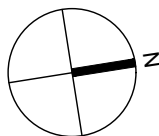


**STORMWATER DRAINAGE PLAN**

SCALE 1:100

- NOTES:**
- REFER TO ARCHITECTURAL & SURVEY PLANS FOR GROUND LEVELS AND UNDERGROUND SERVICES LINE LOCATIONS.

| LEGEND    |                                     |
|-----------|-------------------------------------|
|           | NEW CONNECTION TO KERB              |
|           | NEW STORMWATER LINE FROM BOX GUTTER |
| DP        | NEW DOWNPIPE                        |
| BG1 & BG2 | NEW BOX GUTTER                      |
| RWH       | NEW RAINWATER HEAD                  |
| S1 & S2   | NEW SUMP                            |
| OF        | OVERFLOW WEIR                       |
| EX.DP+S   | EXISTING DOWNPIPE + SPREADER        |
| EX.DP     | EXISTING DOWNPIPE                   |
| EX.EG     | EXISTING EAVES GUTTER               |
| EX.EG(o)  | EXISTING EAVES GUTTER OVER          |





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| REV        | DATE       | DESCRIPTION                        | BY | CHK |
| B1         | 10.09.2026 | ISSUED FOR DEVELOPMENT APPLICATION | JM | JM  |
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**STORMWATER DRAINAGE CONCEPT PLAN**

RECTIFICATION WORKS TO VEHICLE IMPACT DAMAGED AWNING  
AT 3/361 HUME HIGHWAY, BANKSTOWN NSW 2200  
BUILT BY HAUS #BBH2839

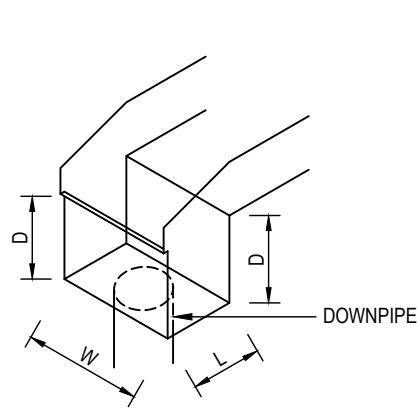


**DEVELOPMENT APPLICATION**

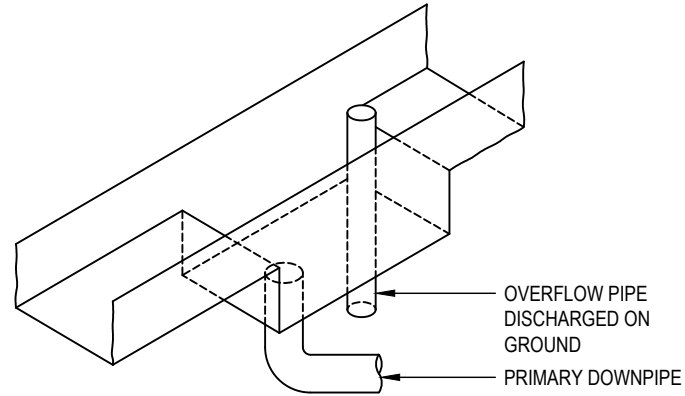
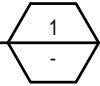
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| SCALE: 1:100            | DATE: AUG. 2026 |
| DRAWN: JM               | CHECKED: JM     |
| APPROVED: DM            | SHEET: A3       |
| PROJECT No: 202607-7400 | DWS No: SW102   |
| REV: B1                 |                 |

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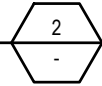
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**DETAIL**  
N.T.S.  
TYPICAL RAINWATER  
HEAD SECTION



**DETAIL**  
N.T.S.  
TYPICAL SUMP +  
OVERFLOW SYSTEM



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| AMENDMENTS |            |                                    |    |     |
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| REV        | DATE       | DESCRIPTION                        | BY | CHK |
| B1         | 10.09.2026 | ISSUED FOR DEVELOPMENT APPLICATION | JM | JM  |
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| DRAWING                                                |  | PROJECT INFO                                                |                |
|--------------------------------------------------------|--|-------------------------------------------------------------|----------------|
| <b>TYPICAL DRAINAGE DETAILS</b>                        |  | <b>RECTIFICATION WORKS TO VEHICLE IMPACT DAMAGED AWNING</b> |                |
| AT 3/361 HUME HIGHWAY, BANKSTOWN NSW 2200              |  | BUILT BY HAUS #BBH2839                                      |                |
| bdaa<br>BUILDING DESIGNERS<br>ASSOCIATION OF AUSTRALIA |  | DEVELOPMENT APPLICATION                                     |                |
| SCALE: N.T.S.                                          |  | DATE: AUG. 2026                                             |                |
| DRAWN: JM                                              |  | CHECKED: JM                                                 |                |
| APPROVED: DM                                           |  | SHEET: A3                                                   |                |
| PROJECT No: 202607-7400                                |  | DWS No: <b>SW103</b>                                        | REV: <b>B1</b> |

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