

ALTERATIONS & ADDITIONS

at: 28 BASSETT STREET, MONA VALE

for: BRETT & KAMMI BEUZEVILLE

Architect: SITE SPECIFIC DESIGNS

Prepared By:



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DRAWING SCHEDULE:

- D01 B STORMWATER DRAINAGE GENERAL NOTES
- D02 B SITE STORMWATER DRAINAGE PLAN
- D03 B GROUND FLOOR STORMWATER DRAINAGE PLAN
- D04 A ROOF STORMWATER DRAINAGE PLAN
- D10 A STORMWATER DRAINAGE DETAILS SHEET 1
- D11 B STORMWATER DRAINAGE DETAILS SHEET 2

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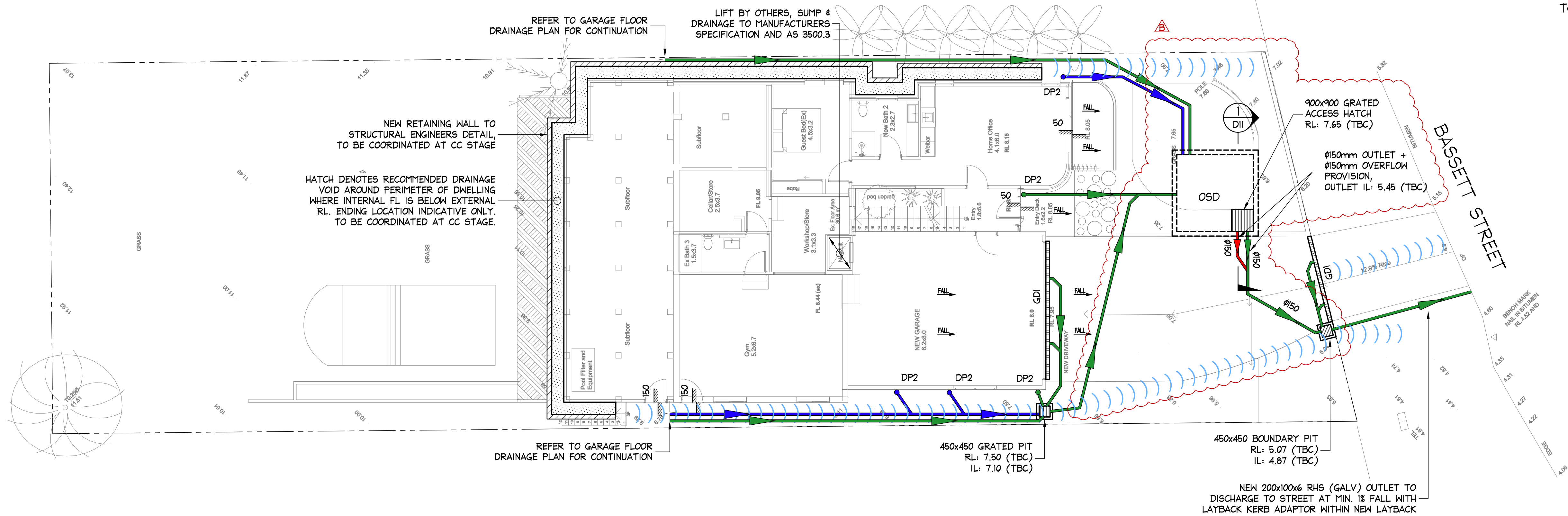
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REV. B - 30.05.2025

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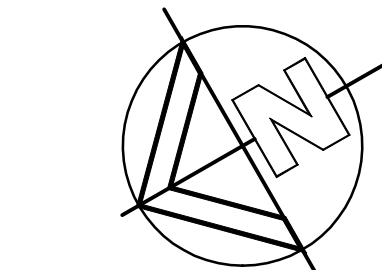
- DPI • 100mm ϕ DOWNPIPE TO DISCHARGE TO RWT
- DP2 • 100mm ϕ DOWNPIPE TO DISCHARGE TO OSD TANK
- NEW SURFACE DRAINAGE STORMWATER PIPE
- NEW ROOF DRAINAGE STORMWATER PIPE
- STORMWATER PIPE FLOW DIRECTION
- STORMWATER PIT
- OVERLAND FLOW PATH
- MIN 50mm STEP OR THRESHOLD DRAINAGE (TO BE COORDINATED AT CC STAGE)
- GDI - 150 MIN DEPTH x 150 WIDE GRATED DRAIN
- OSD OSD TANK, REFER TO DETAILS

NOTE: ALL DRAINAGE LINE LOCATIONS ARE INDICATIVE ONLY. LOCATION MAY VARY DUE TO CONSTRAINTS.

SITE STORMWATER DRAINAGE PLAN

SCALE = 1 : 100

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Date : 30.05.2025
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B.E.(Civil), MIEAust., PRE, DEP.
(Director NB Consulting Engineers)

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Architect:
SITE SPECIFIC DESIGNS

Client:
BRETT & KAMMI BEUZEVILLE

Project:
ALTERATIONS & ADDITIONS
28 BASSETT STREET, MONA VALE

Drawing Title:
SITE
STORMWATER DRAINAGE PLAN

Design:
WF

Drawn:
LS

Job No:
2502082

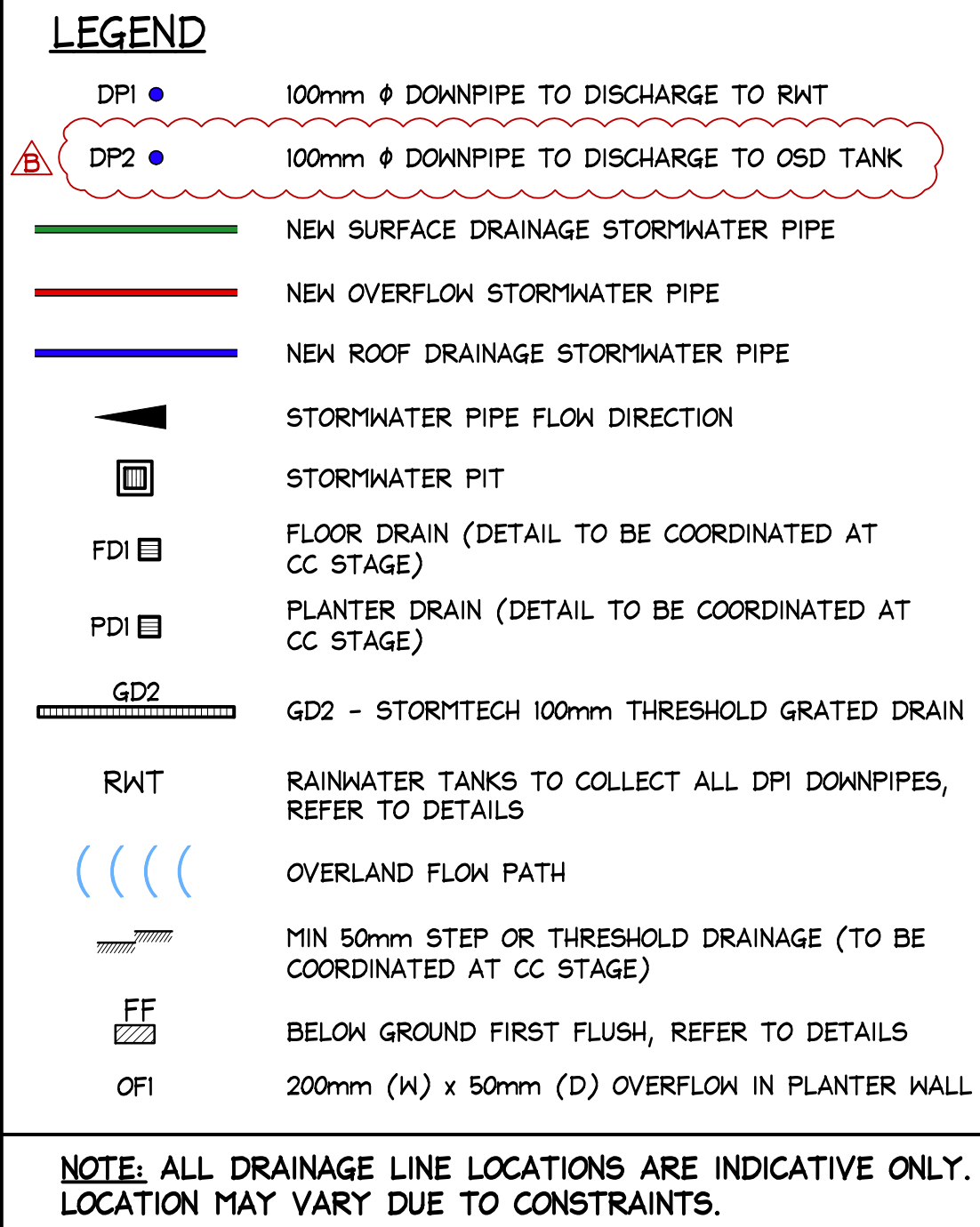
Drawing No:
D02

Issue:
B

Scale check - 100mm when printed to scale

A1

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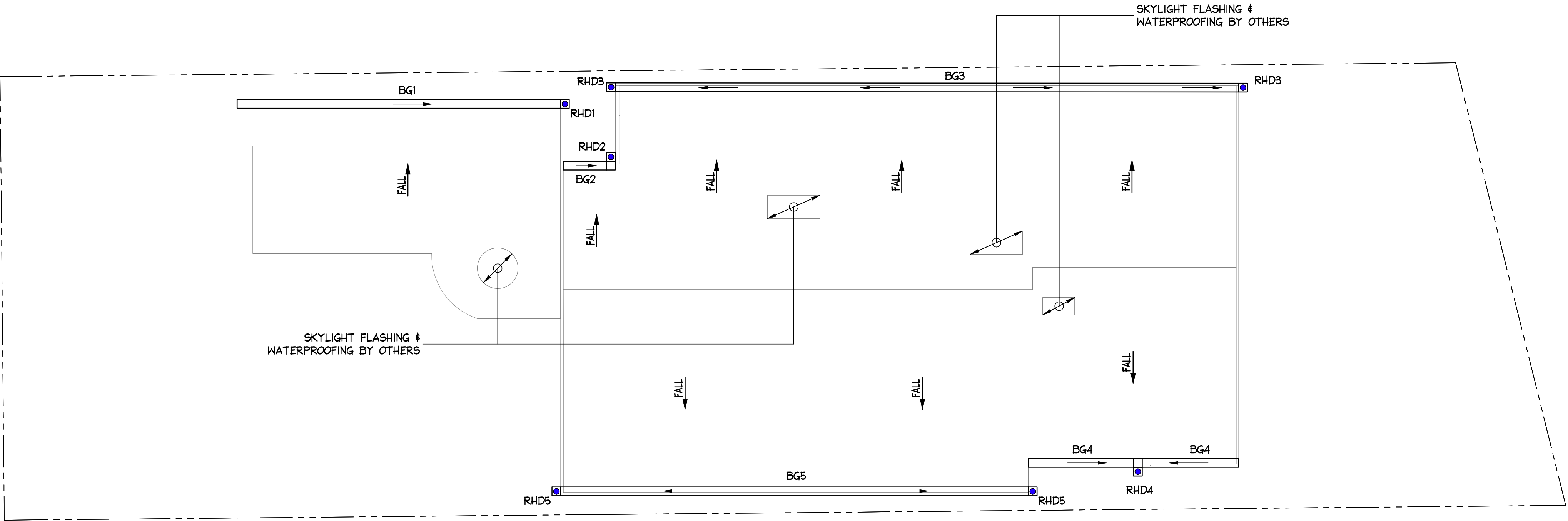
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LEGEND

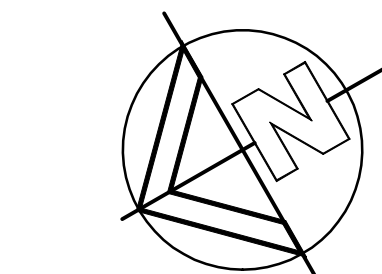
- BG1-5 BOX GUTTER, REFER TO DETAILS
- RHD1-5 RAINHEAD, REFER TO DETAILS

NOTE: ALL DRAINAGE LINE LOCATIONS ARE INDICATIVE ONLY. LOCATION MAY VARY DUE TO CONSTRAINTS.

ROOF STORMWATER DRAINAGE PLAN

SCALE = 1 : 100

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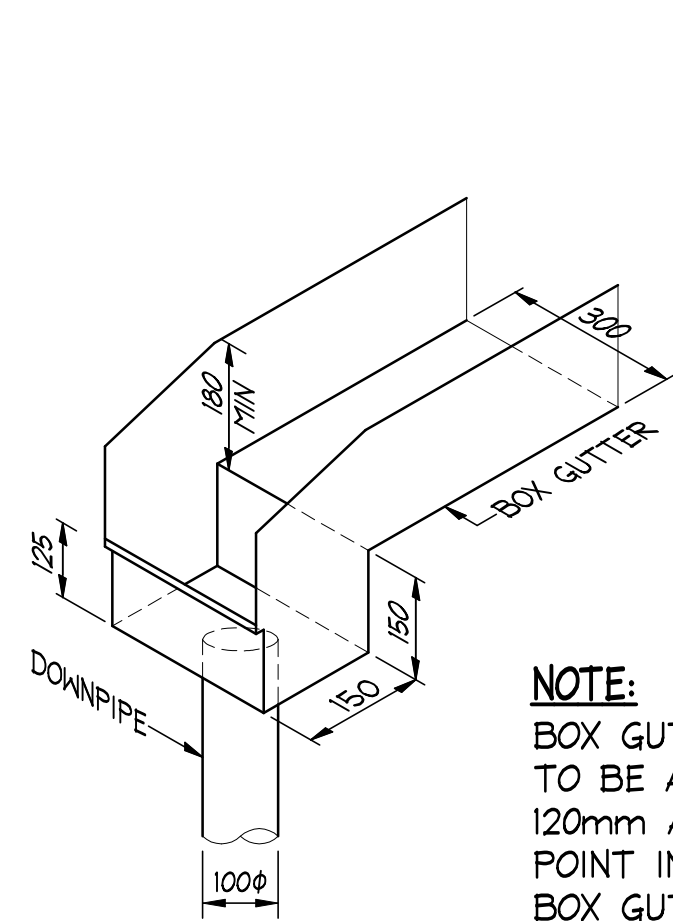
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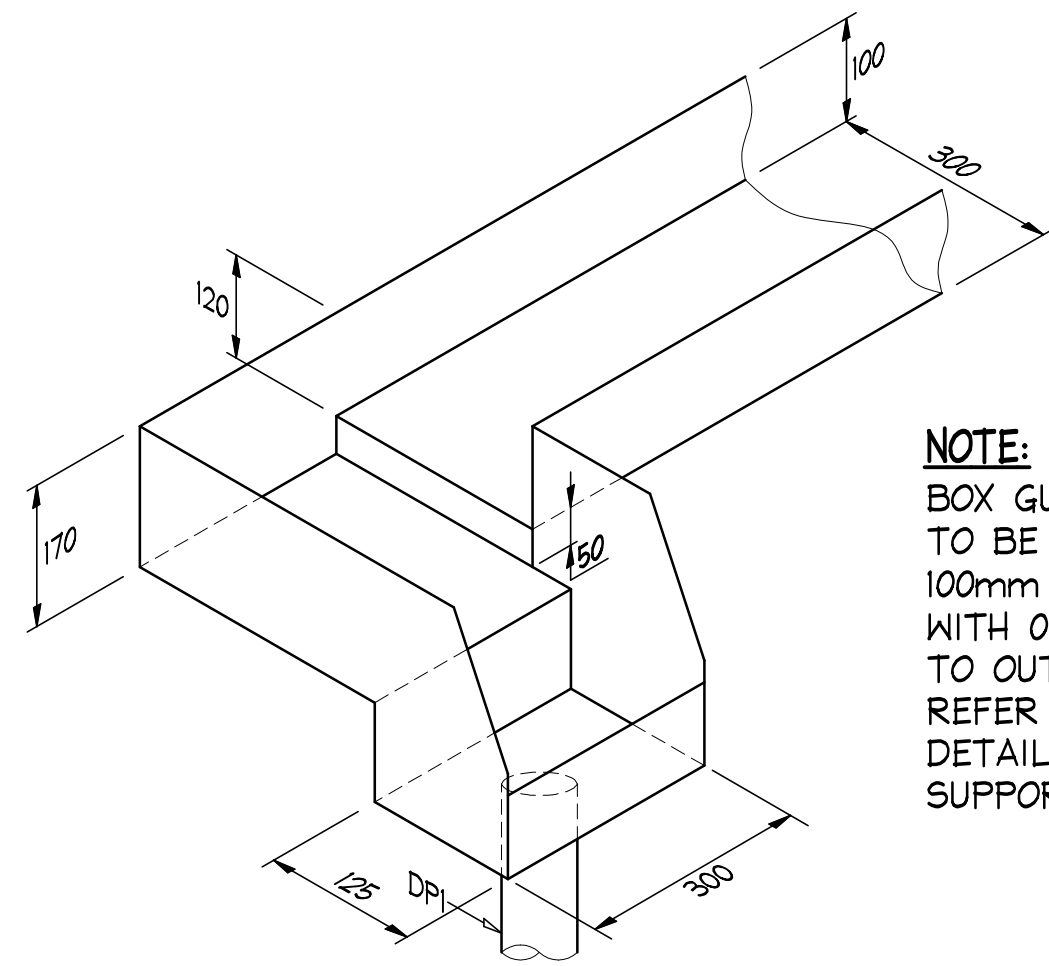
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01.04.2025	A	ISSUED FOR DA SUBMISSION ONLY - NOT FOR CONSTRUCTION		LS	CJ	The copyright of this drawing remains with NB Consulting Engineers			
Date:	Issue:	Description:		By:	Review:				



NOTE:
BOX GUTTER DEPTH
TO BE A MINIMUM OF
120mm AT HIGHEST
POINT IN INVERT OF
BOX GUTTER WITH
0.5 % MINIMUM FALL
TO RAINHEAD.

BOX GUTTER BG1 AND RAINHEAD RHD1 DETAIL

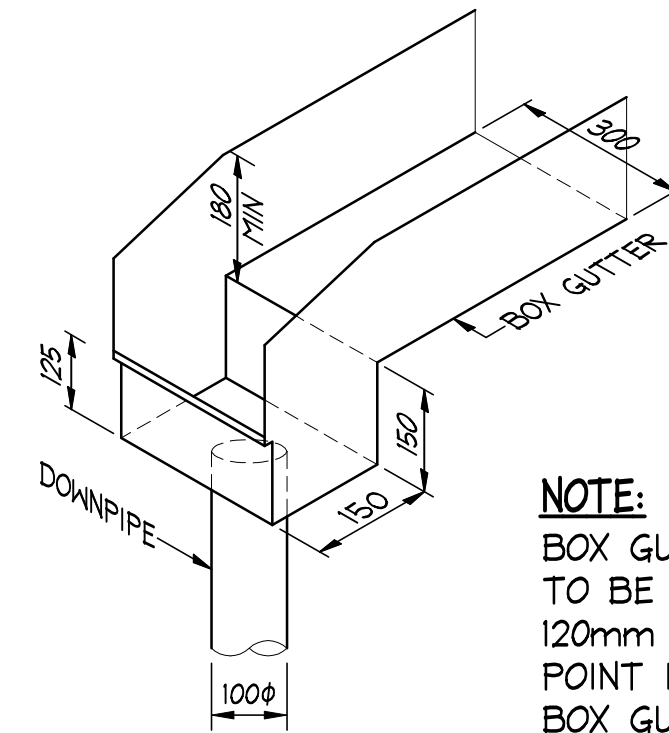
SCALE = NTS



NOTE:
BOX GUTTER DEPTH
TO BE A MINIMUM OF
100mm AT HIGH POINT
WITH 0.5 % MINIMUM FALL
TO OUTLET.
REFER TO STRUCTURAL
DETAILS FOR BOX GUTTER
SUPPORT.

BOX GUTTER BG2 AND SUMP RHD2 DETAIL

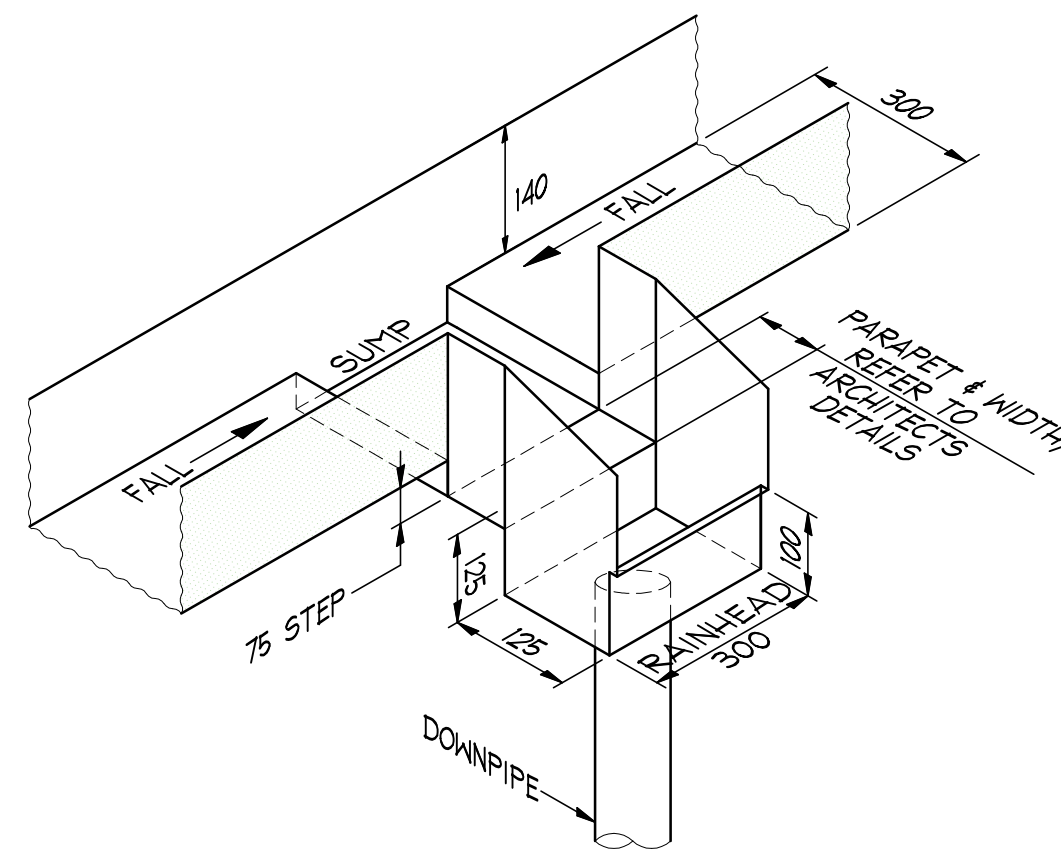
SCALE = NTS



NOTE:
BOX GUTTER DEPTH
TO BE A MINIMUM OF
120mm AT HIGHEST
POINT IN INVERT OF
BOX GUTTER WITH
0.5 % MINIMUM FALL
TO RAINHEAD.

BOX GUTTER BG3 AND RAINHEAD RHD3 DETAIL

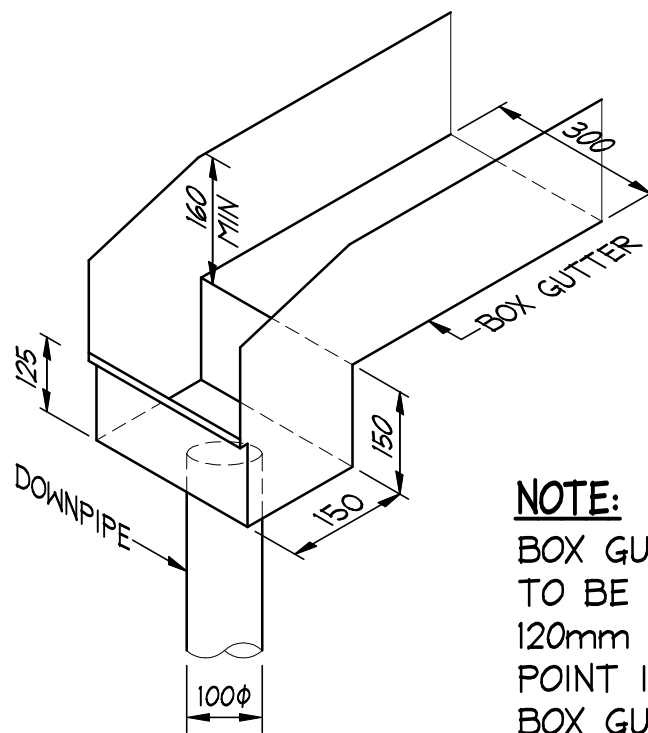
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NOTE:
BOX GUTTER DEPTH
TO BE A MINIMUM OF
110mm AT HIGHEST
POINT IN INVERT OF
BOX GUTTER WITH
0.5 % MINIMUM FALL
TO RAINHEAD.

**BOX GUTTER 'BG4'
& RAINHEAD 'RHD4' DETAIL**

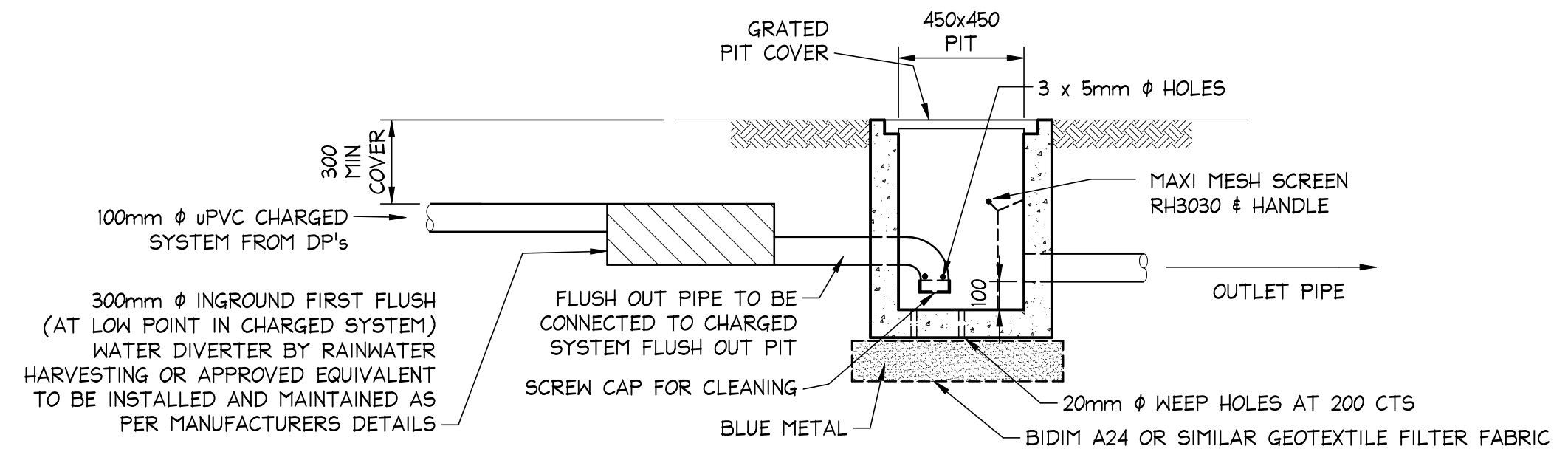
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NOTE:
BOX GUTTER DEPTH
TO BE A MINIMUM OF
120mm AT HIGHEST
POINT IN INVERT OF
BOX GUTTER WITH
0.5 % MINIMUM FALL
TO RAINHEAD.

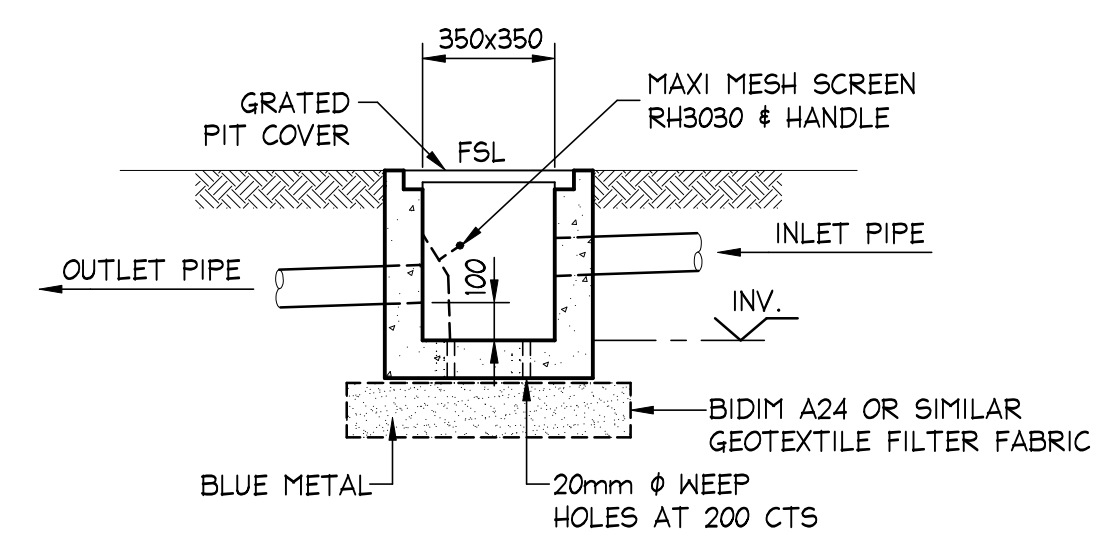
BOX GUTTER BG5 AND RAINHEAD RHD5 DETAIL

SCALE = NTS



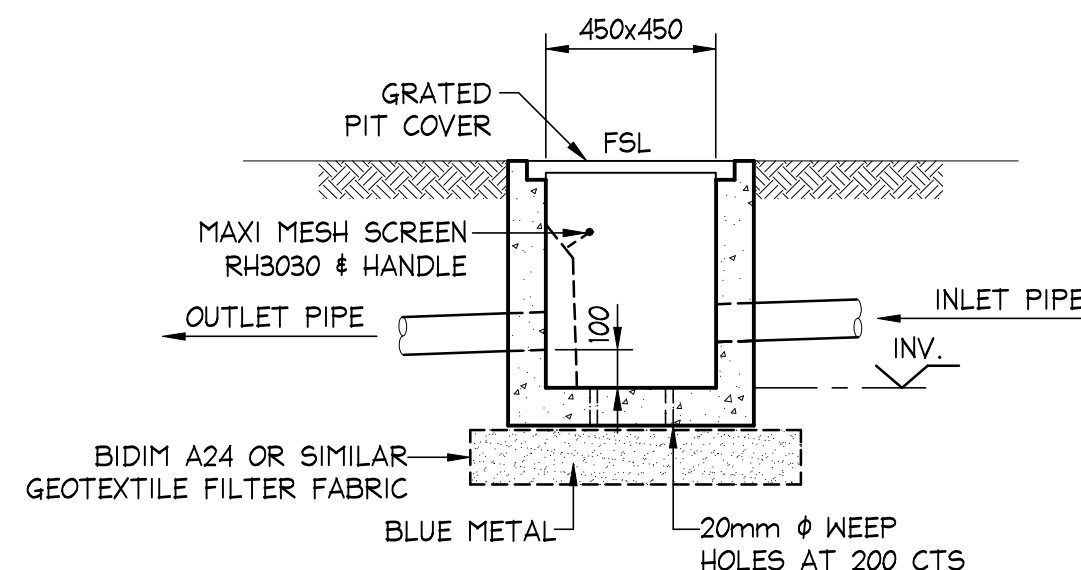
**PRECAST OR CAST INSITU PIT REFER STORMWATER NOTES
450x450 CHARGED SYSTEM FLUSH OUT PIT DETAIL**

SCALE = 1 : 20



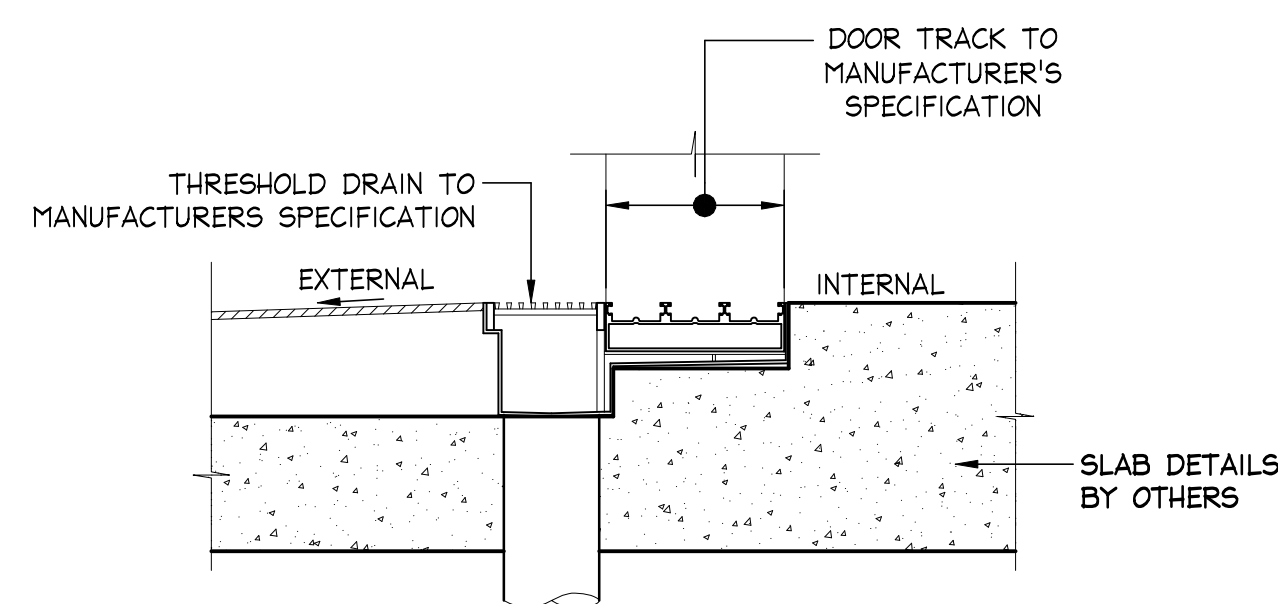
**PRECAST OR CAST INSITU PIT
REFER STORMWATER NOTES
ALTERNATE POLYPROPYLENE PIT BY MANUFACTURER
350x350 PIT DETAIL**

SCALE = 1 : 20



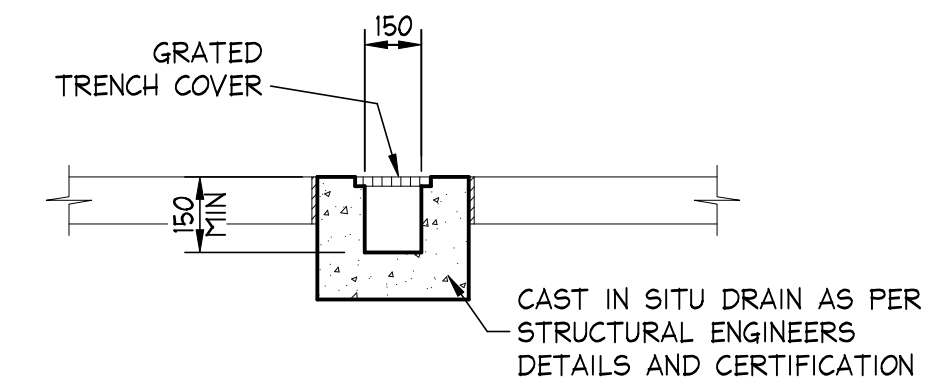
**PRECAST OR CAST INSITU PIT
REFER STORMWATER NOTES
ALTERNATE POLYPROPYLENE PIT BY MANUFACTURER
450x450 PIT DETAIL**

SCALE = 1 : 20



TYPICAL THRESHOLD DRAIN

SCALE = 1 : 5



**OR PRECAST GRATED DRAIN BY MANUFACTURER
ALTERNATE POLYPROPYLENE DRAIN BY MANUFACTURER
TYPE 'GDI' GRATED DRAIN**

SCALE = 1 : 20

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Project:
**ALTERATIONS & ADDITIONS
28 BASSETT STREET, MONA VALE**
Drawing Title:
**STORMWATER DRAINAGE
DETAILS AND SECTIONS SHEET 1**

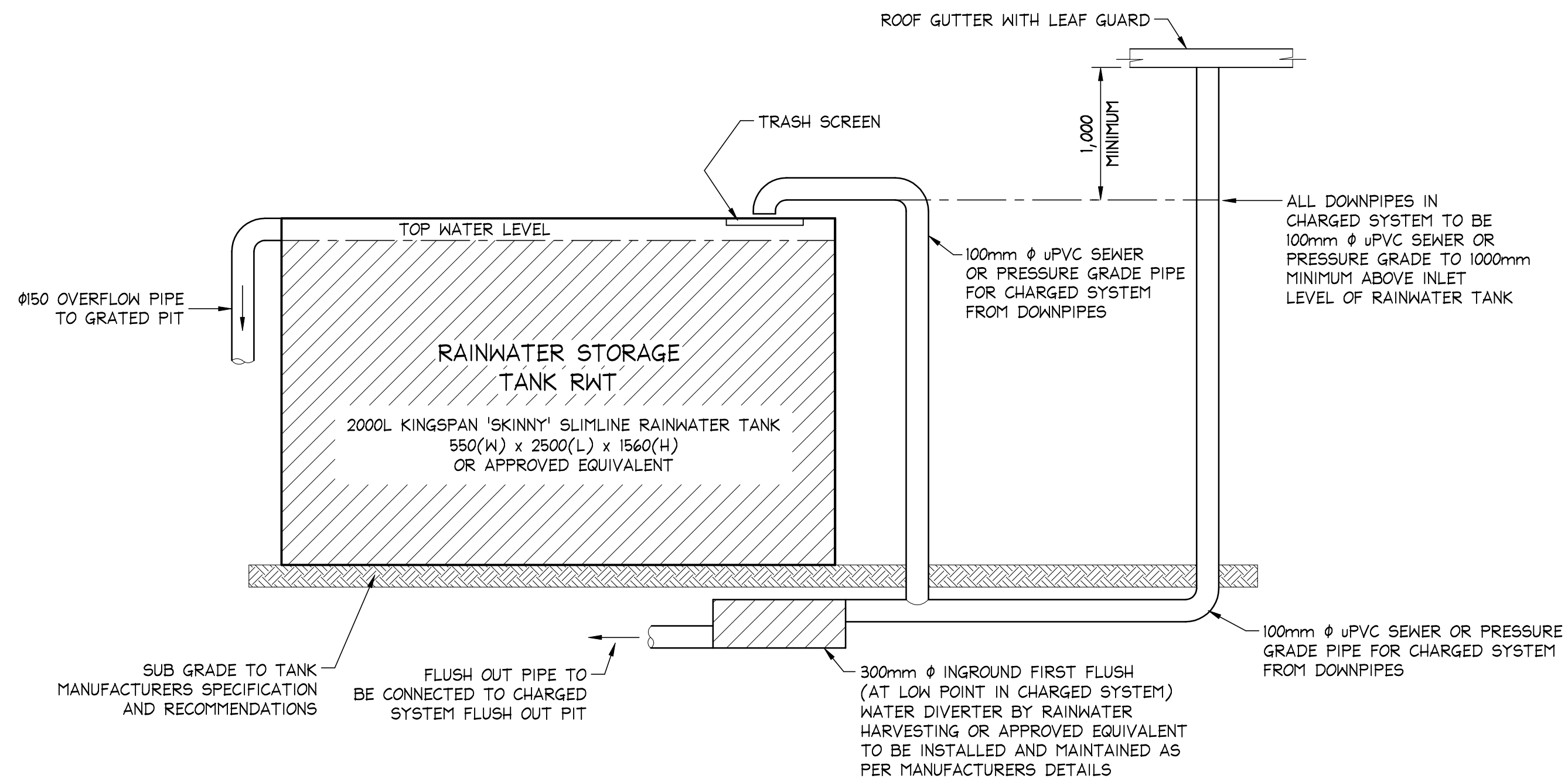
Design:
WF
Drawn:
LS
Job No:
2502082
Drawing No:
D10
Issue:
A

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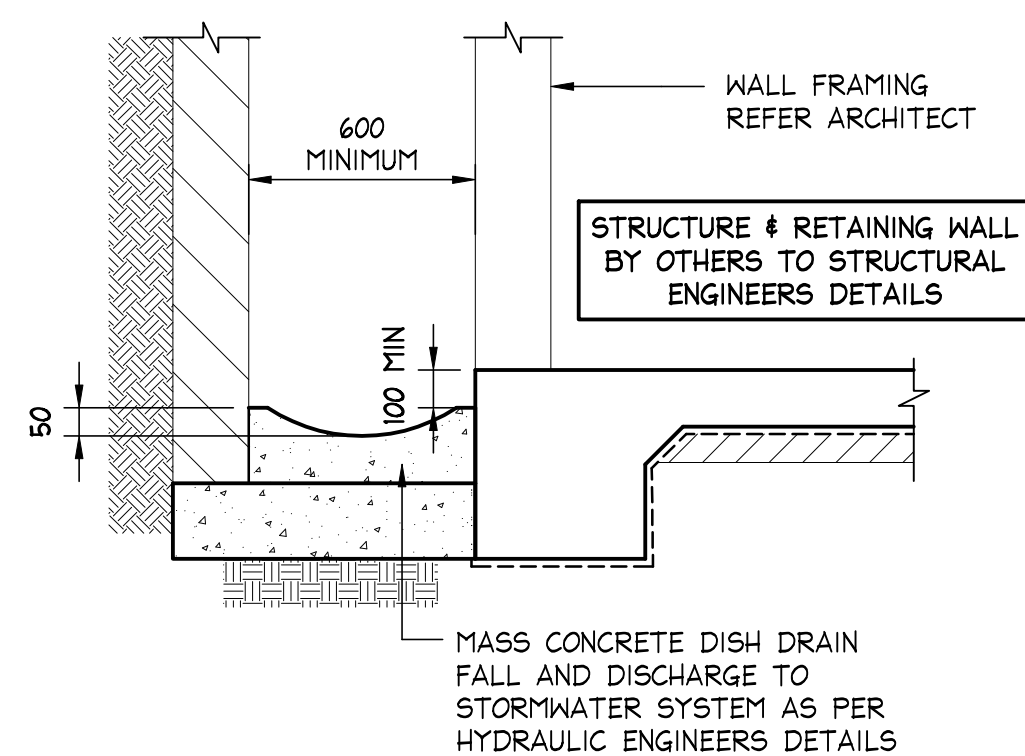
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- K1. CONSIDERING THE ROOF CATCHMENT AREA, LOCATION OF PROPERTY, INTENDED USE OF RAINWATER AND GARDEN SIZE WE RECOMMEND PROVIDING A RAINWATER TANK FOR USE AS PER BASIX REQUIREMENTS, SYDNEY WATER AND NSW HEALTH REQUIREMENTS FOR NON DRINKING USE ONLY AS PER BASIX REPORT.
- K2. THE TANKS PROVIDED WILL REDUCE PRESSURE ON COUNCIL'S STORMWATER INFRASTRUCTURE.
- K3. REFERENCES: COOMBS P.J. & KUCZERA G. (2001), "RAINWATER TANK DESIGN FOR WATER SUPPLY AND STORMWATER MANAGEMENT." STORMWATER INDUSTRY ASSOCIATION REGIONAL CONFERENCE. PATRICK DUPONT & STEVE SHACKLE, "RAINWATER" AUSTRALIAN GOVERNMENT (2004), "GUIDANCE ON USE OF RAINWATER TANKS".
- K4. ALL CONNECTIONS TO PLUMBING AND RAINWATER TANKS TO BE IN ACCORDANCE WITH SYDNEY WATERS' GUIDE "INSTALLING A RAINWATER TANK" AVAILABLE AT www.sydneywater.com.au
- K5. PROVIDE A DUAL SUPPLY SYSTEM AND BACKFLOW PREVENTION SYSTEM IN ACCORDANCE WITH 'BASIX-DESIGN GUIDE FOR SINGLE DWELLINGS' BY NSW DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES.
- K6. IF NOT SPECIFIED ON PLANS, THE FIRST FLUSH SYSTEM IS TO HAVE A MINIMUM SIZE OF 20L PER 100m² OF ROOF CATCHMENT AREA PRIOR TO ENTERING THE RAINWATER TANK. INDIVIDUAL SITE ANALYSIS IS REQUIRED IN HEAVILY POLLUTED AREAS TO DETERMINE IF LARGER VOLUMES OF FIRST FLUSH RAINWATER ARE TO BE DIVERTED. IF IN DOUBT, CHECK WITH LOCAL HEALTH AUTHORITIES.
- K7. SCREENED DOWNPIPE RAINWATER HEAD OR OTHER SUITABLE LEAF AND DEBRIS DEVICE TO BE INSTALLED ON EACH DOWNPIPE. SCREEN MESH TO BE 4-6mm AND DESIGNED TO BE SELF-CLEANING.
- K8. FIRST FLUSH DEVICES, OR APPROVED ALTERNATIVE, TO BE INSTALLED WITH AN AUTOMATED DIVERSION AND DRAINAGE SYSTEM, THAT IS, NO MANUAL DIVERSION AND DRAINAGE VALVES. REFER TYPICAL FLUSH OUT PIT FOR DETAILS.
- K9. BEFORE PURCHASING MATERIALS OR PAINT TO BE USED ON ROOF CATCHMENT AREAS, THE MANUFACTURER'S RECOMMENDATIONS ON LABELS AND BROCHURES FOR RAINWATER TANK SUITABILITY TO BE READ AND ADHERED TO.
- K10. PRE-STORAGE PITS FOR UNDERGROUND RAINWATER STORAGE TANKS AND FLUSH OUT PITS MAY ASSIST IN LIMITING SILT, AND PREVENT VERMIN, INSECTS (INCLUDING MOSQUITOES) AND DEBRIS FROM ENTERING THE RAINWATER STORAGE AREA.
- K11. BUILDER/PLUMBER TO ENSURE THE INSTALLATION OF THE RAINWATER TANK SYSTEM IS IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND THE RAINWATER TANK DESIGN AND INSTALLATION HANDBOOK - HB 230-2008. IF IN DOUBT CONTACT ENGINEER.
- K12. RAINWATER TANK TO BE WATER PROOFED IN ACCORDANCE WITH HB 230-2008

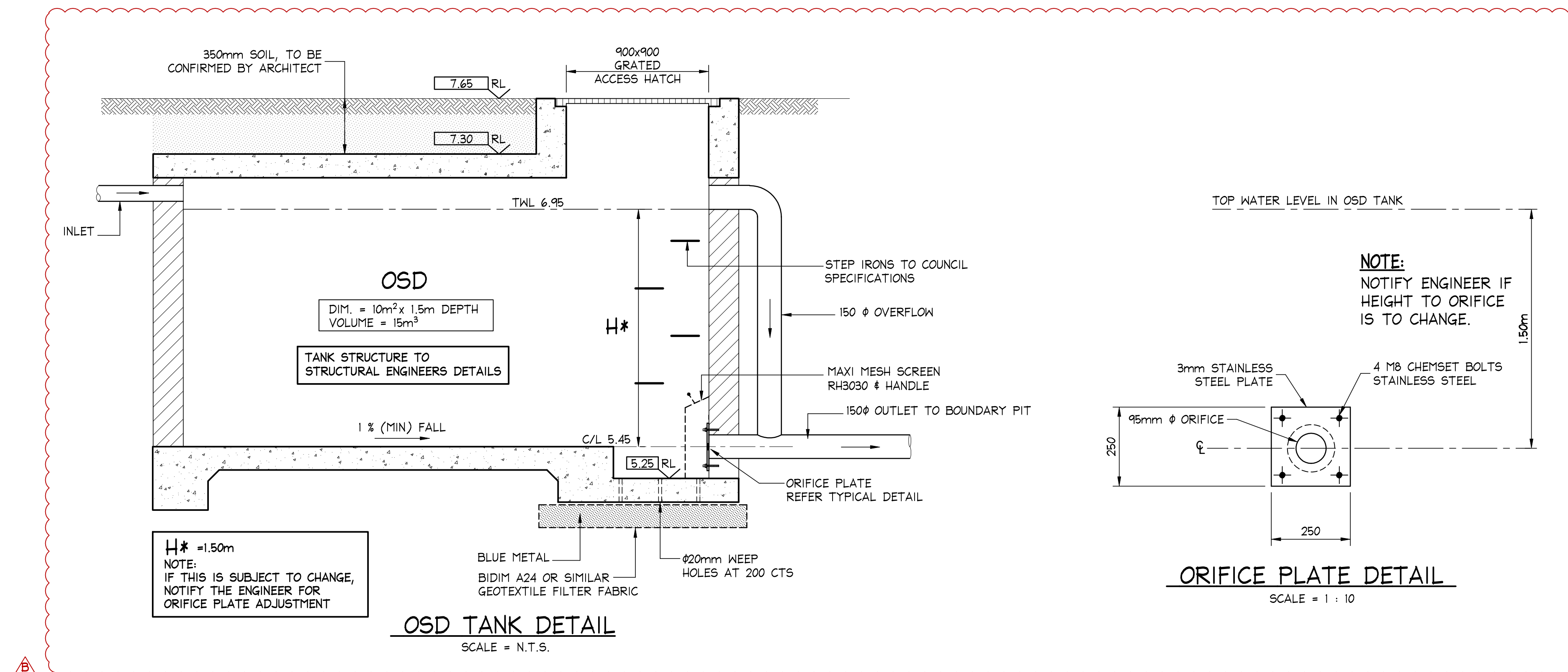


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