MACASA HOMES PTY LTD

PROPOSED DEVELOPMENT
AT

LOT 9 NO. 9 RAVEN CIRCUIT,
WARRIEWOOD. NSW

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C-401	STORMWATER DRAINAGE PLAN & DETAILS

CONCEPT PLAN FOR COUNCIL SUBMISSION
NOT FOR CONSTRUCTION

OWNER: The owner is responsible for maintenance of building and site. Refer to the CSIRO 'Guide to Home Owners on Foundation Maintenance and Performance'.

ISSUE/REVISIONS

REV	BY	DATE	ISSUE / REVISION DESCRIPTION	CHK	APP
0	THT	15/11/2022	ISSUED FOR CDC	HC	GP
1	DM	16/02/2023	ISSUED FOR REVIEW AND COMMENT, NOT FOR CONSTRUCTION	DM	GP
2	DM	24/04/2023	ISSUED FOR REVIEW AND COMMENT, NOT FOR CONSTRUCTION	DM	GP

ISSUE/REVISIONS

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TITLE	NAME	DATE
DRAFTER	THT	15/11/2022
DESIGNER	THT	15/11/2022
ENG. CHECK	HC	15/11/2022

AUTHORISED BY:

GERVASE PURICH
FIEAust CPEng NER BPB RBP RPEQ

NORTH

CLIENT
MACASA HOMES PTY LTD

STRUCterre consulting
Structerre Consulting Engineers (NSW) Pty Ltd (ACN 131 748 260)
SUITE 1, LEVEL 2, 42 BIRNIE AVENUE, LIDCOMBE NSW 2141
TEL (02) 9475 3000 FAX (02) 9646 2311 EMAIL: sydney@structerre.com.au

PROJECT
PROPOSED DEVELOPMENT
AT
LOT 9 NO. 9 RAVEN CIRCUIT,
WARRIEWOOD. NSW

COVER SHEET & DRAWING LIST

CLIENT REF. No. N/A
SCALE N/A
STRUCTERRE JOB No. 3.22.11581.5
DRAWING REF. No. WAW0009-C-000
REV 1
SHEET SIZE A1

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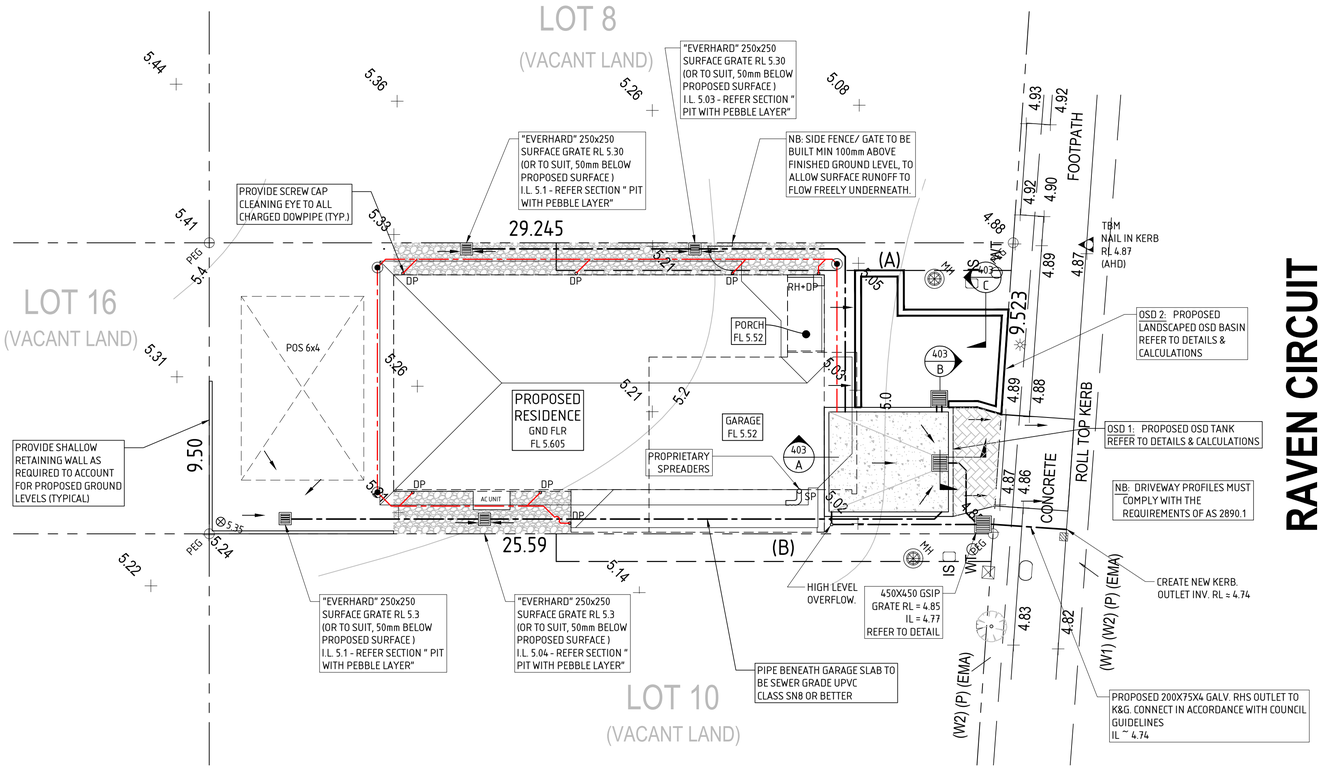

RAVEN CIRCUIT

(A): EASEMENT FOR ACCESS AND MAINTENANCE 0.9 WIDE

(B): EASEMENT FOR ACCESS AND MAINTENANCE 0.9 WIDE

NOTE: SURFACE DRAINAGE HAS BEEN TREATED AS UNCONTROLLED TO THE DISCHARGE POINT. OSD STORAGE VOLUME MODIFIED TO SUIT.

NB: PRECISE DETAILS OF ALL EXISTING SERVICES (PITS/PIPES ETC.), SUCH AS DIAMETER, DEPTH, ALIGNMENTS ETC., TO BE OBTAINED ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. REFER ANY DISCREPANCIES TO THIS OFFICE PRIOR TO PROCEEDING.

OSD CALCULATIONS SUMMARY:

SSR = 9.0m3 (OR AS CLOSE AS POSSIBLE GIVEN LEVELS)
PSD = 3.40L/s
(AS PER COUNCIL RFI DATED 1 MARCH 2023)

SITE AREA SUMMARY:

TOTAL SITE AREA = 246.2m^2
PROPOSED ROOF AREA = 126.5m^2
PROPOSED PAVED AREA = 20m^2
TOTAL IMPERVIOUS AREA = 146.5m^2
TOTAL PERVIOUS AREA = 99.7m^2

TOTAL INTO OSD = 228.5m2
TOTAL BYPASS = 17.7m2 (7.2% OF TOTAL SITE AREA)

VOLUME CALCULATIONS:

OSD 1 VOLUME PROVIDED = 4.8m3
OSD 2 VOLUME PROVIDED = 2.94m3
TOTAL VOLUME PROVIDED = 7.74m3 (MAX POSSIBLE)

ORIFICE SIZING CALCULATIONS:

USING ORIFICE EQUATION

ORIFICE$\varnothing$ = 21.9 x (PSD/(H)$^{0.5}$)$^{0.5}$ = 50.46mm
WHERE PSD = 3.40 L/s, DEPTH TO ORIFICE CL = 0.41m (H), THEREFORE PROVIDE 50mm SHARP EDGED OPENING IN ORIFICE PLATE

GENERAL NOTES

G1. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER WORKING DRAWINGS AND SPECIFICATIONS AND SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES AND VARIATIONS SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
G2. ALL STRUCTURAL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL RELEVANT AND CURRENT CODES.
G3. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF SITE WORK SHALL BE VERIFIED BEFORE CONSTRUCTION AND/OR FABRICATION IS COMMENCED.
G4. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
G5. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
G6. ALL PIPES, ORIFICE PLATES, FLAP VALVES ETC SHALL BE IN ACCORDANCE WITH HYDRAULIC DRAWINGS.

CONCRETE NOTES

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF AS 3600 AND OTHER RELEVANT CODES.

STORMWATER NOTES

ST1. ALL DRAINAGE PIPES TO BE Ø100 SEWER GRADE uPVC AT 1% MIN. FALL, U.N.O.
ST2. A CONTINUOUS SILT BARRIER FENCE IS TO BE PROVIDED ALONG LOWER BOUNDARIES FOR DURATION OF CONSTRUCTION - REFER DETAIL.
ST3. HAYBALE BARRIERS TO BE PROVIDED AROUND INLET PITS FOR DURATION OF CONSTRUCTION - REFER DETAIL.
ST4. DRAINAGE HAS BEEN DESIGNED IN ACCORDANCE WITH METHODS SET OUT IN 'AUSTRALIAN RAINFALL AND RUNOFF' (1987).
ST5. ALL NECESSARY WORK INVOLVED IN THE CREATION OF EASEMENT/RIGHT OF CONNECTION TO ANY EXISTING SERVICES AND/OR COVENANTS/RESTRICTIONS TO USER SHALL BE THE RESPONSIBILITY OF THE OWNER/APPLICANT.

EROSION CONTROL NOTES

E1. EROSION CONTROL MEASURES TO BE IN PLACE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORK.
E2. REHABILITATION INCLUDES COMPLETION OF ALL CONSTRUCTION WORK AND LANDSCAPING, SEEDING OR TURFING OF ALL BATTERS AND FILL AREAS.
E3. A PROGRAM OF PROGRESSIVE REHABILITATION SHOULD BE IMPLEMENTED TO MINIMISE EROSION.
E4. TOP SOIL STOCKPILES TO BE SOWN IF LEFT UNDISTURBED FOR MORE THAN FOUR WEEKS.
E5. THE NEAREST COUNCIL PIT SHALL BE PROTECTED WITH SAND BAG SEDIMENT TRAPS AND TRAFFIC BARRIERS ACCORDING TO AS 1742.3 - 1985.
E6. ONLY ONE CONSTRUCTION ENTRY/EXIT SHALL BE USED DURING CONSTRUCTION.
E7. DURING WET WEATHER MUD IS TO BE HOSED OFF ON THE RAMP PRIOR TO VEHICLES LEAVING THE SITE.
E8. EXTRA HAY BALES TO BE STORED AT SITE FOR THE USE OF ANY OPEN TRENCHES, PITS ETC.
E9. SEDIMENT TRAPS SHALL BE INSPECTED AFTER EACH STORM. CLEAN OR REPLACE IF NECESSARY.
E10. BALE BARRIERS TO BE REMOVED FOLLOWING COMPLETION OF ALL CONSTRUCTION WORKS, PAVEMENT AND LANDSCAPING AREAS, WITH COUNCIL APPROVAL.

LEGEND

- 40.0 - EXISTING CONTOURS
- 40.0 - PROPOSED CONTOURS
- DP - PROPOSED DOWNPIPE (100x50/Ø90 U.N.O.-REFER DETAILS)
- PROPOSED PIPE (SIZES AS SHOWN ON PLAN/NOTES)
- PROPOSED PIPE SEALED TO TANK (SIZES AS SHOWN ON PLAN/NOTES)
- EXISTING PIPE
- DIRECTION OF FALL (1% MIN U.N.O.)
- PROPERTY BOUNDARY
- INSPECTION RISER/CLEANING EYE (DIA. TO MATCH PIPE) WITH SEALED SCREWCAP LID.
- 10.30 - EXISTING SPOT LEVEL
- 10.52 - PROPOSED SPOT LEVEL
- PROPOSED GRATED SURFACE INLET PIT (GSIP)
- PROPOSED JUNCTION PIT (JP)

CONCEPT PLAN FOR COUNCIL SUBMISSION
NOT FOR CONSTRUCTION

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STORMWATER DRAINAGE PLAN & DETAILS

CLIENT REF. No. N/A
SCALE 1:100
STRUCTERRE JOB No. 3.22.11581.5
DRAWING REF. No. WAW0009-C-401
REV 1
SHEET SIZE: A1

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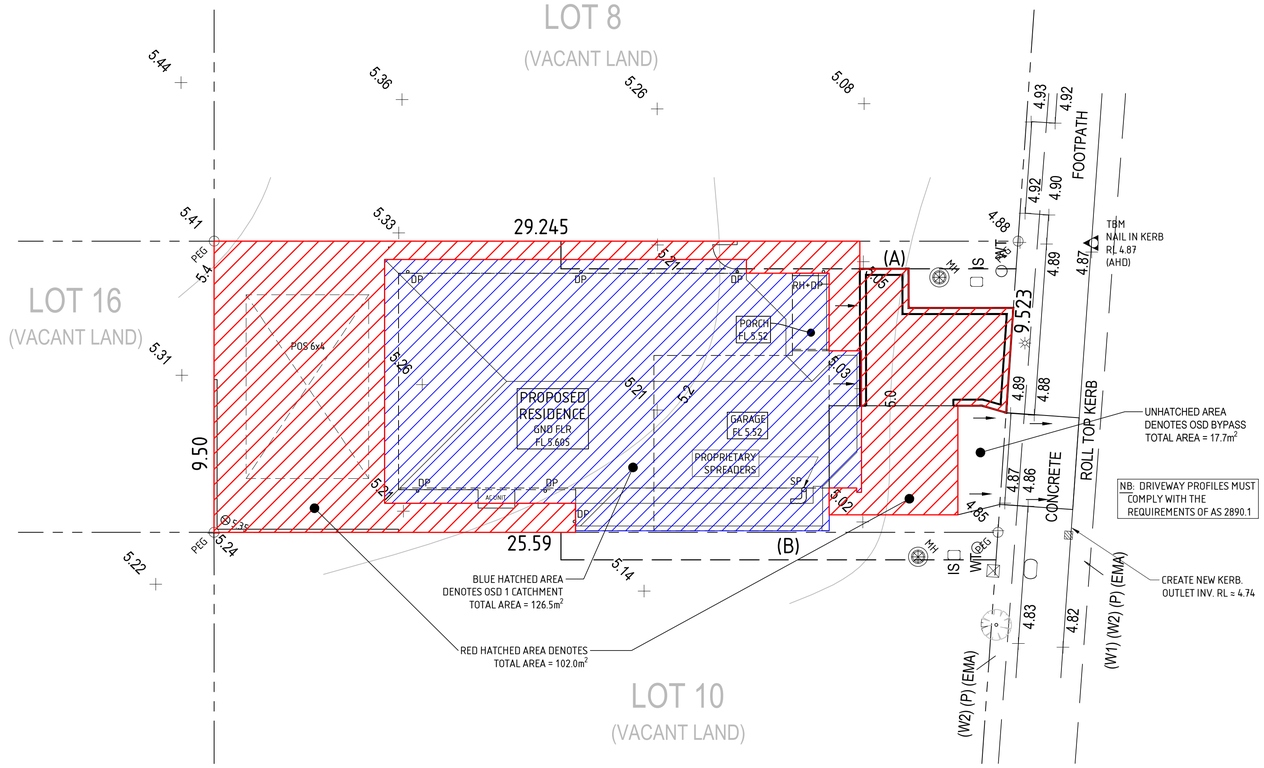

NB: DRIVEWAY PROFILES MUST COMPLY WITH THE REQUIREMENTS OF AS 2890.1

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PROJECT
PROPOSED DEVELOPMENT AT
LOT 9 NO. 9 RAVEN CIRCUIT, WARRIEWOOD, NSW

OSD CATCHMENT PLAN

CLIENT REF. No. N/A
SCALE 1:100
STRUCTERRE JOB No. 3.22.11581.5
DRAWING REF. No. WAW0009-C-402
REV 1
SHEET SIZE: A1

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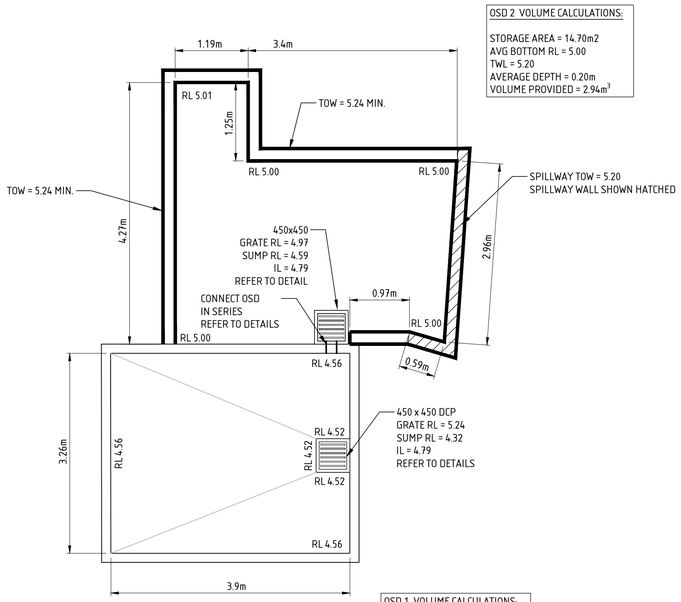


OSD 2 VOLUME CALCULATIONS:

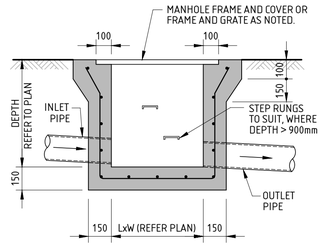
STORAGE AREA = 14.70m2
AVG BOTTOM RL = 5.00
TWL = 5.20
AVERAGE DEPTH = 0.20m
VOLUME PROVIDED = 2.94m^3

OSD 1 VOLUME CALCULATIONS:

STORAGE AREA = 12.68m^2
AVG DEPTH OF STORAGE = 0.38m
TWL = 5.20
VOLUME PROVIDED = 4.8m^3

ENLARGED PLAN - OSD

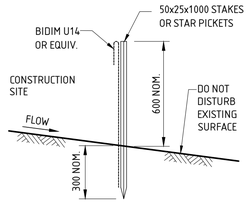
SCALE 1:50



JUNCTION/SURFACE INLET PIT

NOT TO SCALE

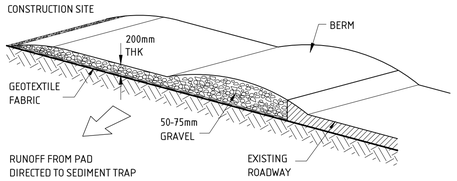
NB: PIT TO BE REINFORCED USING N12 BARS @ 200mm C/C
BOTH WAYS, CENTRALLY PLACED.
PROPRIETARY PRECAST CONCRETE OR FRC PITS MAY BE USED
AS AN ALTERNATIVE, SUBJECT TO COUNCIL/ PCA APPROVAL.



SILT FENCE DETAIL

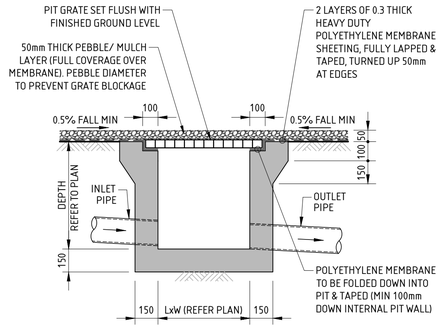
NOT TO SCALE

- STRING 16 GAUGE WIRE TIGHTLY BETWEEN STAKES
- LAP BIDIM OVER 50MM & STITCH WITH TIE WIRE
  LOOPED AT 100MM CENTRES
- REMOVE SILT AFTER EACH MAJOR STORM



TEMPORARY CONSTRUCTION EXIT

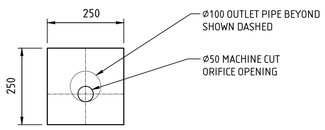
NOT TO SCALE



PIT WITH PEBBLE/ MULCH LAYER (TYP)

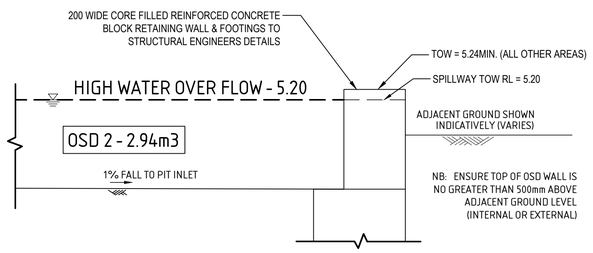
NOT TO SCALE

NB: PIT TO BE REINFORCED USING N12 BARS @ 200mm C/C
BOTH WAYS, CENTRALLY PLACED.
PROPRIETARY PRECAST CONCRETE OR FRC PITS MAY BE USED



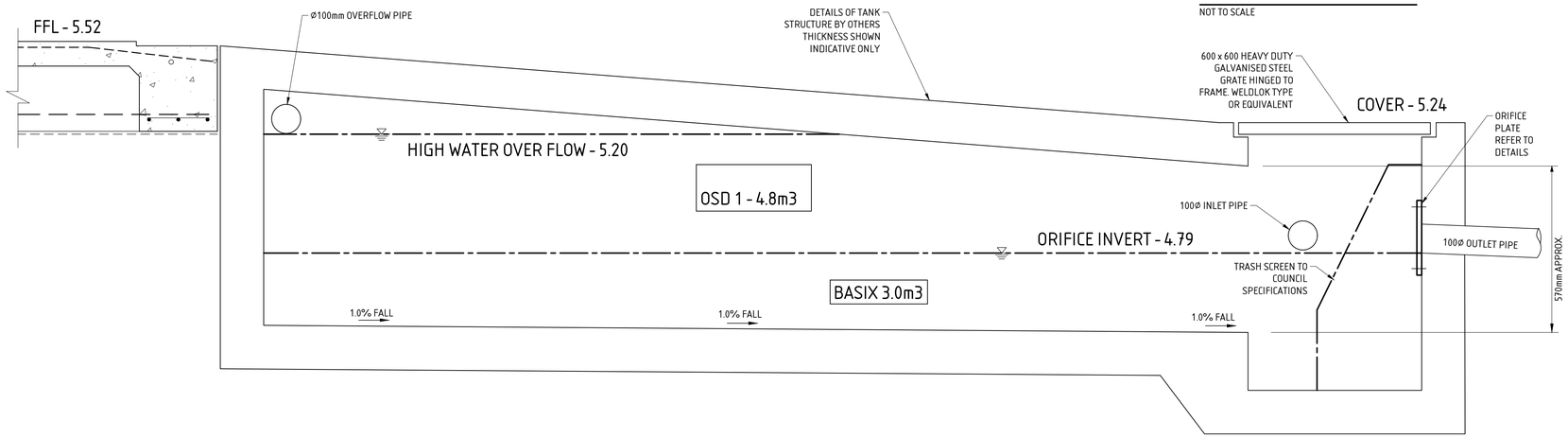
OSD ORIFICE PLATE DETAIL

NOT TO SCALE



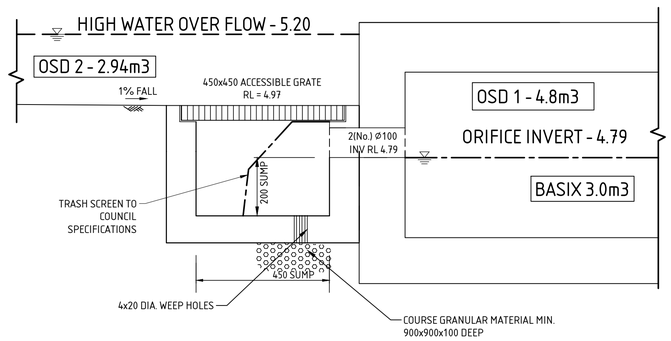
SECTION C-C OPEN AIR OSD BASIN TO TANK

N.T.S.



SECTION A-A UNDERGROUND OSD STORAGE TANK

N.T.S.



SECTION B-B OPEN AIR OSD BASIN TO TANK

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