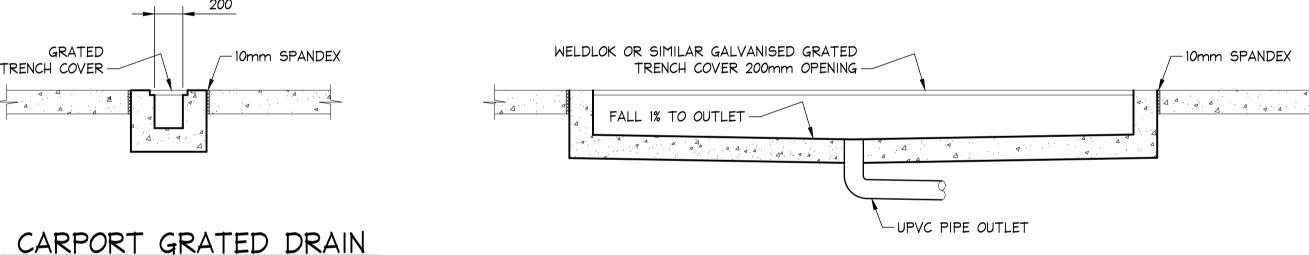


STORMWATER NOTES:

1 - ALL PIPES TO BE 100mm \$ SEWER GRADE UPVC UNLESS NOTED OTHERWISE.

- 2 ALL PIPES TO BE UPVC TO AS 1254-2002 UNLESS NOTED OTHERWISE. 3 - ALL PIPES TO BE LAID AT 1 % MINIMUM GRADE UNLESS NOTED OTHERWISE.
- 4 ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO
- 100% S.M.D.D. BELOW PAVEMENTS. (NO COMPACTION REQUIRED BELOW LANDSCAPING) COVER TO SURFACE FROM TOP OF PIPE TO BE AS PER AS3500. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.
- 5 DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT WITH WORK.
- 6 PROVIDE CLEANING EYES AT ALL DOWNPIPES.
- 7 ALL PITS TO BE PRECAST, PREFORMED OR HDPE, IN ACCORDANCE WITH LOCAL COUNCIL SPECIFICATIONS
- 8 ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER COUNCIL STANDARDS.
- 9 ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.
- 10 PRIOR TO COMMENCING ANY SITE WORKS THE CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES TO EPA GUIDELINES AND COUNCIL SPECIFICATIONS. ALL MEASURES TO REMAIN IN PLACE UNTIL COMPLETION AND STABILIZATION OF THE SITE TO COUNCIL SATISFACTION.
- 11 ALL LEVELS SHOWN ARE TO AHD 12 - ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
- 13 ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO UPVC.
- 14 ALL WORKS TO BE IN ACCORDANCE WITH AS 3500,3-2021 NATIONAL PLUMBING DRAINAGE CODE PART 3 - STORMWATER DRAINAGE \$ NCC 2022.



LONGITUDINAL SECTION CARPORT GRATED DRAIN SCALE = 1 : 20

GUTTER CALCULATIONS

ONSITE DETENTION SYSTEM SUMMARY NOTES -NORTHERN BEACHES COUNCIL COUNCIL'S "WATER MANAGEMENT FOR DEVELOPMENT POLICY, 26 FEB. 2021" USED SECTION 5.5 - FOR REGION 2 - CENTRAL CATCHMENTS TOTAL SITE AREA 428.5 m^2 (74%) PREDEVELOPMENT IMPERVIOUS AREA $444.4 \text{ m}^2 (76\%)$ POST DEVELOPMENT IMPERVIOUS AREA DESIGN METHOD USED PROPERTY DRAINS TO REAR & IS A LOW LEVEL PROPERTY. NO EASEMENT THROUGH THE DOWNSTREAM PROPERTY HAS BEEN IDENTIFIED. THEREFORE OSD IS REQUIRED AS PER SECTION 5.5 OF THE COUNCIL POLICY. BELOW GROUND OSD TANK IS TO BE PROVIDED TO CAPTURE ALMOST ALL SITE RUNOFF AND DETAIN THAT AREA BACK TO "STATE OF NATURE" CONDITIONS. PREDEVELOPMENT RUNOFF FOR SITE 19 1/s - FROM DRAINS 11.9 m^3 TOTAL VOLUME OF OSD REQUIRED ORIFICE DIAMETER TANK 96 mm

Gutter Calculations -20 yr ARI Storm

Northern Beaches Council

4 Aperta Place Beacon Hill

Alterations & Additions

Gutter

Slope

steeper

than

1 in

500

500

500

500

500

500

500

from

Council

Appendix 12

mm/hr

201

201

201

201

201

201

201

Area

to AS 3500.3 - 2021 & AS 3500.5 - 2012 & NCC 2022

slope

factor

From

Fig 5.6.3.2

1.2

1.2

1.2

1.2

1.2

1.2

All underground Pipes to be 100 Dia Sewer Grade PVC UNO

Area A_c

 m^2

37.6

32.8

45.7

37.6

37.6

32.8

Horizontal

Area A_h

 m^2

31.3

27.3

38.1

31.3

31.3

27.3

27.3

213.9

All Downpipes to run to OSD Tank

Eaves Gutters - Alcan Ogee

All SPs to be 90 dia

Eaves

Gutters

EXDP1

EXDP2

EXDP3

DP4

DP6

DP7

total

NOTES:

1. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WITH WORK.

2. TO BE PRINTED IN COLOUR FOR DEFINITION.

DOCUMENT CERTIFICATION

Date : OCT. 2025 Bruce Lewis (Principal: Peninsula Consulting Engineers) BE(Civil), CPEng, MIEAust., NPER. Institute of Engineers Membership No. 87913

SCALE = 1 : 20

PRECAST OR HDPE GRATED DRAIN

ALTERNATIVE

CONCRETE SLAB

600

TYPICAL TRENCHING DETAIL

SCALE = 1 : 20

	<u> </u>		
	23-10-2025	А	FOR COUNCIL SUBMISSION
	22-10-2025	ā.	DRAFT
31	Date:	Rev:	Amendment:

MINIMUM DEPTH TO AS

- CLEAN COMPACTED SAND

STORMWATER PIPE

COMPACTED SAND BED

GRADE AT 1%

3500.5:2012, TABLE

5.7.11.10.1 INCLUDING

OVERLAY

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Project:

PROPOSED WORKS at: 4 APERTA PLACE BEACON HILL for: JON STEVENS

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STORMWATER MANAGEMENT PLAN & DETAILS

From

Figure

5.6.4.1.a

gutter

area regd

 mm^2

7400

6400

7400

7400

6400

9700

Downpipe

From

Table 5.6.4.7.1

size regd

mm

100x75 or 100 dia

100x50 or 90 dia

100x75 or 100 dia

100x75 or 100 dia

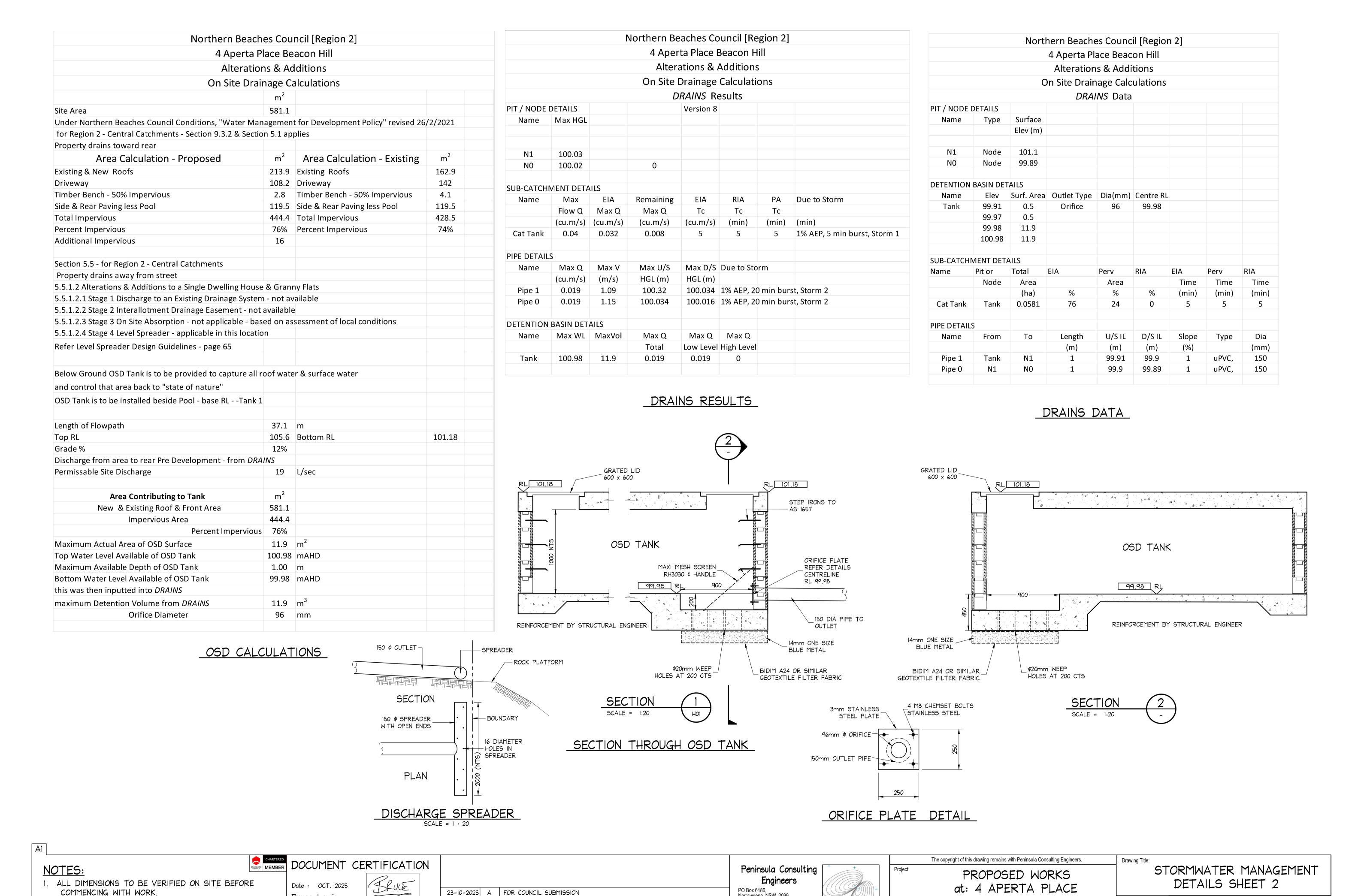
100x75 or 100 dia

100x50 or 90 dia

100x50 or 90 dia

mm⁴

Drawing No: 25-1004



Narraweena, NSW, 2099

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BEACON HILL

for: JON STEVENS

Drawing No:

25-1004

H02

Bruce Lewis

(Principal: Peninsula Consulting Engineers)

Institute of Engineers Membership No. 879131

BE(Civil), CPEng, MIEAust., NPER.

22-10-2025 PI DRAFT

Amendment:

2. TO BE PRINTED IN COLOUR FOR DEFINITION.