GENERAL: UNLESS NOTED OTHERWISE

G1 - DRAWINGS SHALL BE READ IN CONJUNCTION WITHV ALL OTHER WORKING DRAWINGS, SPECIFICATIONS AND ANY OTHER WRITTEN INSTRUCTIONS ISSUED DURING CONSTRUCTION. ALL DISCREPENCIES AND VARIATIONS SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

G2 - DURING CONSTRUCTION THE STRUCTURE AND ANY ADJACENT STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO OPART SHALL BE OVERSTRESSED. G3 - DIMENSIONS SHALL NOT BE OBTAINED BY SCALING OFF THIS DRAWING. ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THIS DRAWING SHALL BE CHECKED ON-SITE PRIOR TO THE COMMENCEMENT OF THE WORKS.

G4 - THE CONTRACTOR IS RESPONSIBLE TO ESTABLISH THE LOCATION, SIZE AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS. G5 - ALL PIPES, JOINTS, VALVES, SUB-SOIL DRAINS ETC SHALL CONFORM, BE INSTALLED AND BACKFILLED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS. G6 - ALL BALCONIES AND ROOFS ARE TO INCORPORATE A SAFETY OVERFLOW G7 - NOTWITHSTANDING THE EXTENT AND LAYOUT OF DRAINAGE SHOWN ON THIS DRAWING, ADDITIONAL WORKS OR REMEDIATION MAY BE REQUIRED SHOULD UNDISCLOSED FEATURES OR ALTERED SITE CONDITIONS WARRANT IT. G8 - ADEQUATE SEDIMENT AND FROSION CONTROL MEASURES ARE TO BE INSTALLED

PRIOR TO WORKS BEGINNING ON-SITE. ALL SEDIMENT CONTROL IS TO BE LOCATED WITHIN THE SITE BOUNDARY AND BE MAINTAINED DURING THE PERIOD OF

G9 - ALL DISTURBED AREAS ARE TO BE STABILISED AND RESTORED IN ACCORDANCE WITH ARCHITECTURAL OR LANDSCAPE PLANS WHEN INSIDE THE BOUNDARY, AND IN ACCORDANCE WITH COUNCILS CIVIL WORKS POLICY TO COUNCIL SATISFACTION WHEN OUTSIDE THE SITE BOUNDARY.

G10 - DRIVEWAY CROSSINGS AND FOOTPATHS ARE SHOWN INDICATIVELY AND ARE TO BE CONSTRUCTED TO COUNCIL SPECIFICATIONS.

G11 - ALL PROPOSED DRAINAGE STRUCTURES INCLUDING RETAINING WALLS, PITS, TANKS AND DETENTION BASINS BUILT ADJACENT OR OVER UNDERGROUND SERVICES. EASMEMENTS OR SEWER ARE TO BE CONSTRUCTED TO THE RELEVANT AUTHORITY REQUIREMENTS.

DESIGN SUMMARY NORTHERN BEACHES COUNCIL (PITTWATER)

SITE AREA 836.1 m2 (Survey) PREDEVELOPMENT IMPERVIOUS AREA 422.5 m2 (51%) 451.0 m2 POST DEVELOPMENT IMPERVIOUS AREA (54%) PROPOSED CHANGE IN IMPERVIOUS AREA 28.5 m2 (3.0%)

THIS IS A NEW DWELLING DEVELOPMENT THIS IS A LOW LEVEL PROPERTY THERE IS AN OVERALL INCREASE IN IMPERVIOUS AREA WITH EXISTING STORMWATER DISCHARGE TO THE REAR VIA LEVEL SPREADER

IN ACCORDANCE WITH COUNCIL POLICY SECTION 5.5 DISCHARGE TO EXISTING SYSTEM VIA GRAVITY NOT ACHIEVABLE (SECTION 5.5.1.2.1) DISCHARGE TO EASEMENT NOT ACHIEVABLE - EASEMENT REFUSAL (SECTION 5.5.1.2.2) DISCHARGE TO ABSORPTION NOT SUITABLE - SHALLOW SHALE (SECTION 5.5.1.2.3) DISCHARGE VIA LEVEL SPREADER ACHIEVABLE (SECTION 5.5.1.2.4)

OSD IS REQUIRED FOR THIS DEVELOPMENT - LOW LEVEL PROPERTY

STORMWATER MANAGEMENT

STORMWATER MANAGEMENT FOR DA ONLY

DA1 - THIS PLAN IS ISSUED FOR THE PURPOSES OF COUNCIL ENGINEER REVIEW AND DEVELOPMENT APPROVAL WITH RESPECT TO COUNCILS STORMWATER MANAGEMENT POLICY.

DA2 - THIS DRAWING IS INTENDED TO BE SCHEMATIC AND NOT FOR USED FOR CONSTRUCTION

DA3 - FINAL LOCATION OF ALL DOWNPIPES, PITS, RAINWATER TANK ELEMENTS AND SUBSOIL PIPES ARE TO BE CONFIRMED DURING CONSTRUCTION CERTIFICATE STAGE (CC) OF THE PROPOSED DEVELOPMENT

DA4 - DIMENSIONS, LOCATION, LEVELS AND VOLUMES OF RAINWATER AND ON-SITE DETENTION TANKS ARE TO BE GENERALLY AS PER THE COUNCIL DA APPROVED DESIGN. ANY CHANGES AT CC STAGE ARE SUBJECT TO ENGINEER APPROVAL AND MAY REQUIRE COUNCIL RESUBMISSION FOR COUNCIL ENGINEERING APPROVAL.

SEEPAGE. LANDSCAPING AND SUBSOIL DRAINAGE

LD1 - ANY EXPOSED CUT TO BE STABILISED AND DRAINED IN ACCORDANCE WITH GEOTECHNICAL ENGINEERING ADVICE AND DRAINAGE INSTALLED IN ACCORDANCE WITH

LD2 - ANY NUISANCE SEEPAGE FLOWS, OVERLAND FLOWS OR WATER TABLE ENCOUNTERED TO BE CAPTURED AND RE-DIRECTED IN ACCORDANCE WITH GEOTECHNICAL, HYDROLOGIC AND HYDRAULIC ENGINEERS REQUIREMENTS. LD3 - ALL LANDSCAPED AREAS LOCATED OVER CONCRETE SLABS OR ADJACENT TO WALLS SERVICING A HABITABLE AREA TO BE EQUIPPED WITH WATERPROOFING MEMBRABE, DRAINAGE CELL, GEOFABRIC AND A SUITABLE MEANS OF OVERFLOW IN THE EVENT OF BLOCKAGE TO THE PRIMARY DRAINAGE SYSTEM.

DESIGN SUMMARY NORTHERN BEACHES COUNCIL (PITTWATER) (CONTINUED)

FROM DRAINS MODELLING

DESIGN AREA 836.1 m2 PERMITTED SITE DISCHARGE RATES PSD 20% AEP (GREENFIELDS) 18 L/s PSD 5% AEP (GREENFIELDS) 29 L/s PSD 1% AEP (GREENFIELDS) 41 L/s

PROPOSED 100% ROOF AREA TO OSD AREA TO OSD 324.1 m2 (100% ROOF IMPERVIOUS) BYPASS OSD 512.0 m2 (33.0% IMPERVIOUS PAVING)

POST DEV 20% AEP 16 L/s BYPASS 20% AEP 13 L/s OSD OUT 20% AEP 3 L/s BYPASS 5.0% AEP 19 L/s OSD OUT 5.0% AEP 4 L/s POST DEV 5.0% AEP 23 L/s BYPASS 1.0% AEP 27 L/s OSD OUT 1.0% AEP 5 L/s POST DEV 20% AEP 32 L/s

> RAINWATER TANK PROVIDED 16,000L (BASIX 6000L, 10,000L EXCESS)

RWT OFFSET (50% MAX) 5000 L

OSD REQUIRED 10.330 L DEDICATED OSD PROVIDED 5500 L

OSD ACHIEVED INC RWT OFFSET 10,500 L

OSD ACHIEVED > OSD REQUIRED

PRE DEVELOPMENT (GREENFIELDS) DISCHARGE ESSENTIALLY MATCHES POST DEVELOPMENT DISCHARGE

REFER TO OSD TANK DETAILS FOR ORIFICE PLATE AND LEVEL SPREADER DETAILS

FOR REVISIONS

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BEACHES GROUP ∞ SANDY ֡֟֝֟֟֟֟ 8 gi Drawing V3 Scale 1:1 251131 SW01

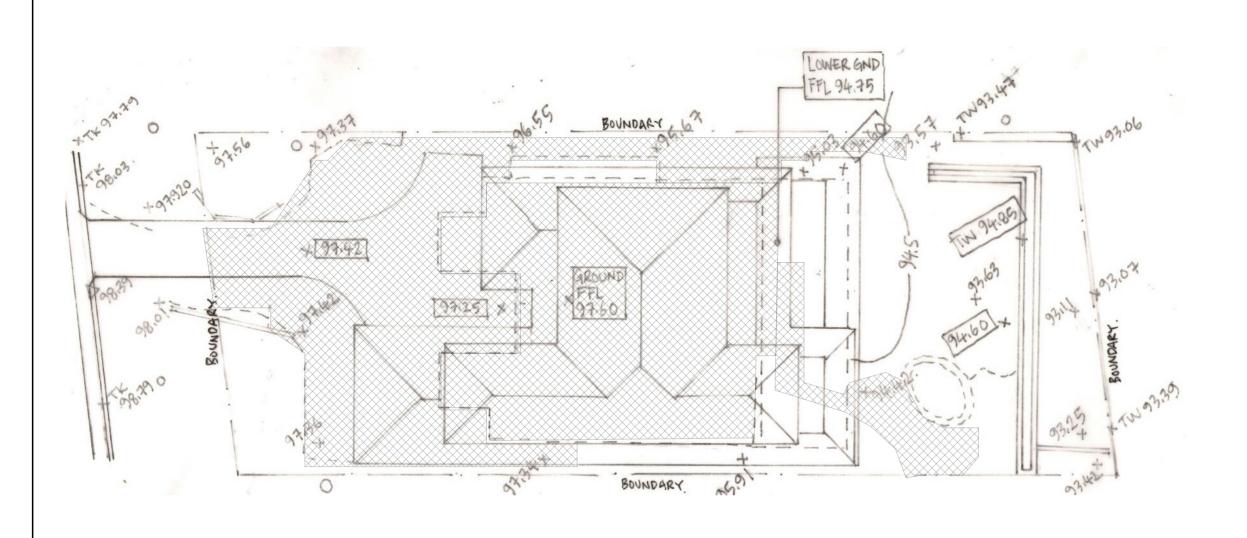
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Date





DENOTES EXTENT OF EXISTING SITE IMPERVIOUS

STORMWATER SITE CATCHMENT PLAN

SCALE 1:200	
KEY	DESCRIPTION
800	DP1 DENOTES 100 Ø DOWNPIPE TO KERB DP2 DENOTES 90 Ø DOWNPIPE TO KERB
₹\$ ^k °	DP3 DENOTES 100 Ø DOWNPIPE TO OSD DP4 DENOTES 90 Ø DOWNPIPE TO OSD
100Ø @ 1.0%	100 DIA SEWER GRADE uPVC AT MIN. 1.0% FALL U.N.O.
\$ #T	SURFACE INLET PIT (SIP) GRATED U.N.O. SURFACE LEVEL (SL) INVERT LEVEL (IL)

KEY	DESCRIPTION
çu'i 🔾	RWT DENOTES RAINWATER RE-USE REFER TO BASIX (MIN 10000L DESIGNED)
*	FIRST FLUSH DEVICE (UNDERGROUND) 300 Ø PIPE REFER TO DETAIL
100Ø(C)	100 DIA SEWER GRADE uPVC CHARGED LINE REFER TO DETAILS
- <u>ss</u>	90 Ø AG-LINE FOR SUBSOIL DRAINAGE FOR PLANTER PD1 REFER TO DETAIL

EXISTING DRAINAGE NOTE:-

BUILDER PLUMBER TO INSPECT & CAMERA TEST EXISTING DRAINAGE AND CONFIRM GENERAL COMPLIANCE WITH AS3500.3

AND COUNCIL POLICY. UPGRADE AS REQUIRED

KEY	DESCRIPTION
⊗ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PROPOSED SPOT LEVEL (RL)
€20	200x200 FLOOR DRAIN. REFER TO DETAIL.
⇒ ⇒ ⇒	DIRECTION OF FALL 1.0% FALL U.N.O.
₹*	INSPECTION RISER (DIA TO MATCH PIPE)



-	R)		ED NEW	OBERT	STORMWATE		
	15/5/2025 ISSUE FOR DA	2/5/2025 ISSUE FOR DA	DESCRIPTION		Project/Builder/Designer PROPOSED NEW	SANDY & SUE PROBERT	Sheet Title STC	Building Designer BEACHES GROUP	Building Designer Contact 02 9940 2229
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31 RALSTON ROAD, PALM BEACH

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SIT

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DWELLING BY BEACHES

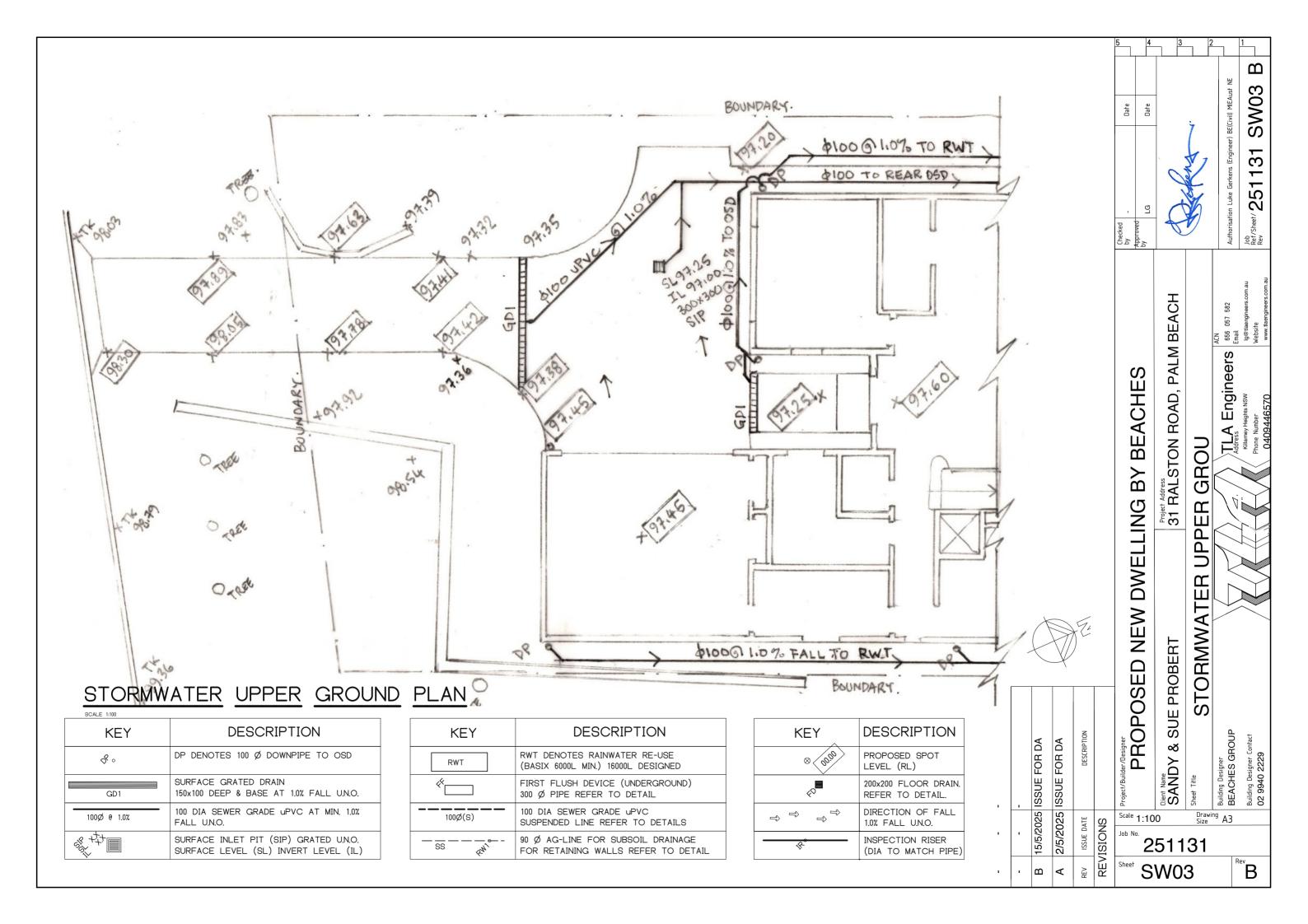
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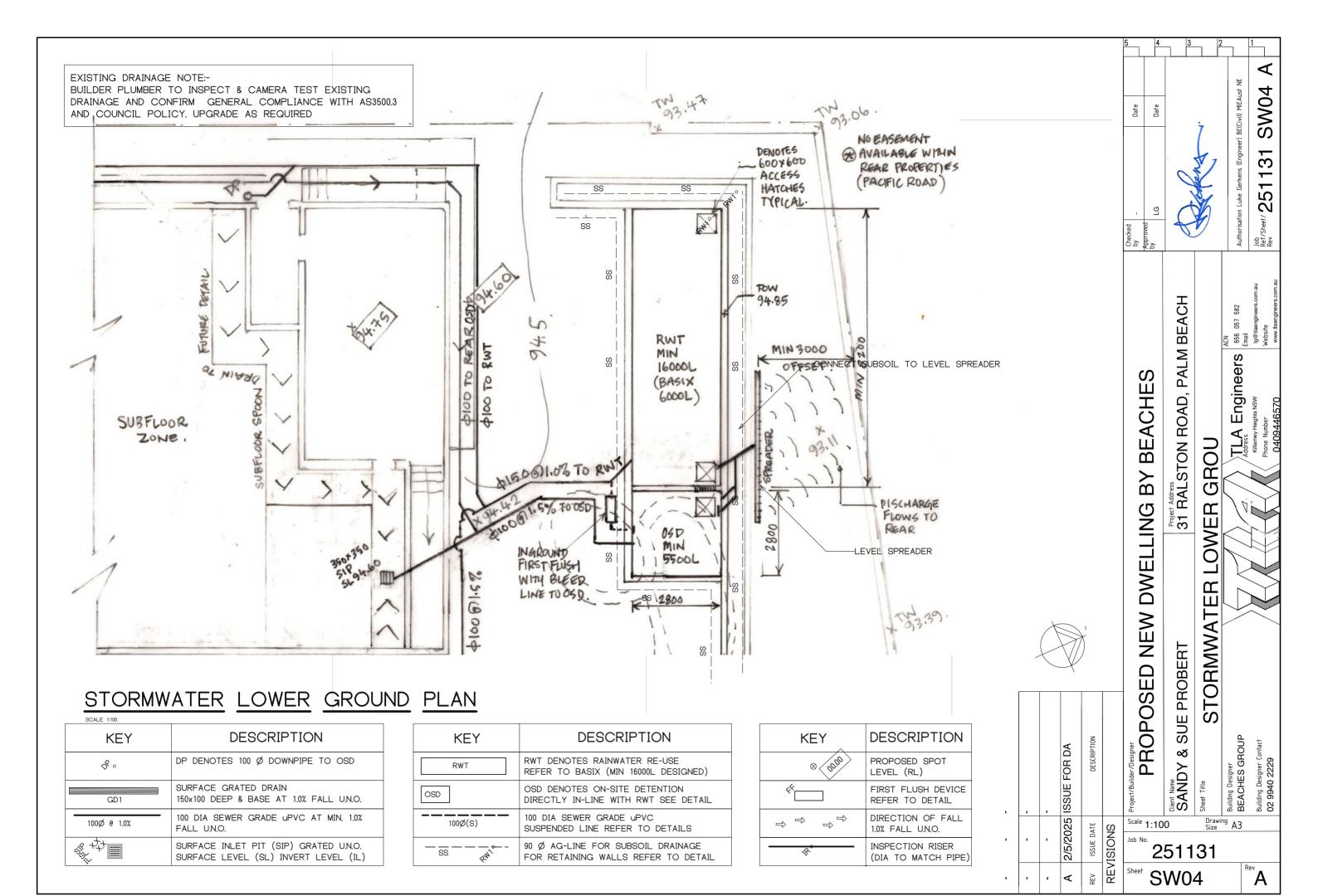
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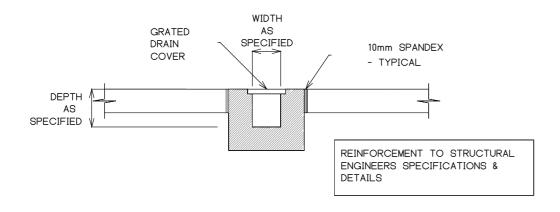
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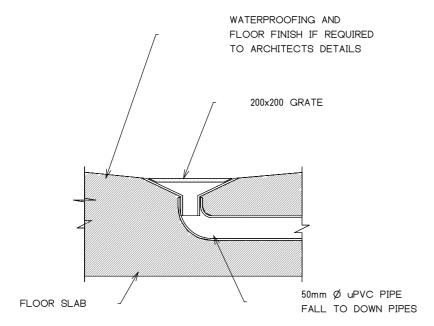






OR PRECAST GRATED DRAIN ALTERNATE POLYPROPYLENE DRAIN BY MANUFACTURER

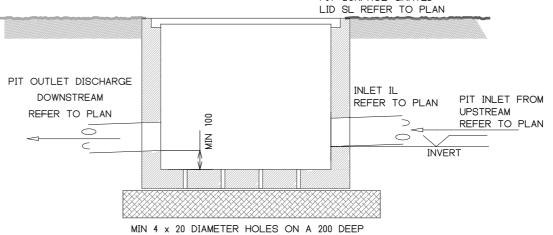
TYPICAL GRATED DRAIN



PIPE IN SLAB

FLOOR DRAIN - 'FD'

PIT DIMENSION REFER TO PLAN

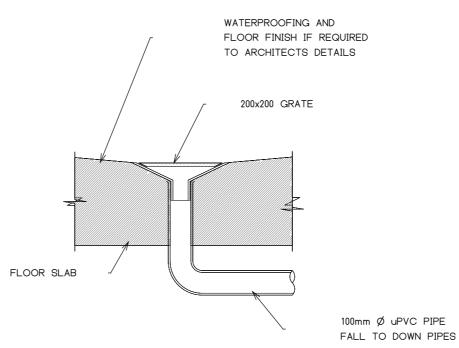


PIT SURFACE GRATED

GRAVEL BED WRAPPED IN BIDEM A24 GEOFABRIC OR SIMILAR

PRECAST OR CAST INSITU PIT REFER STORMWATER NOTES ALTERNATE POLYPROPYLENE PIT BY MANUFACTURER

TYPICAL PIT DETAIL



PIPE BELOW SLAB

FLOOR DRAIN - FD

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