

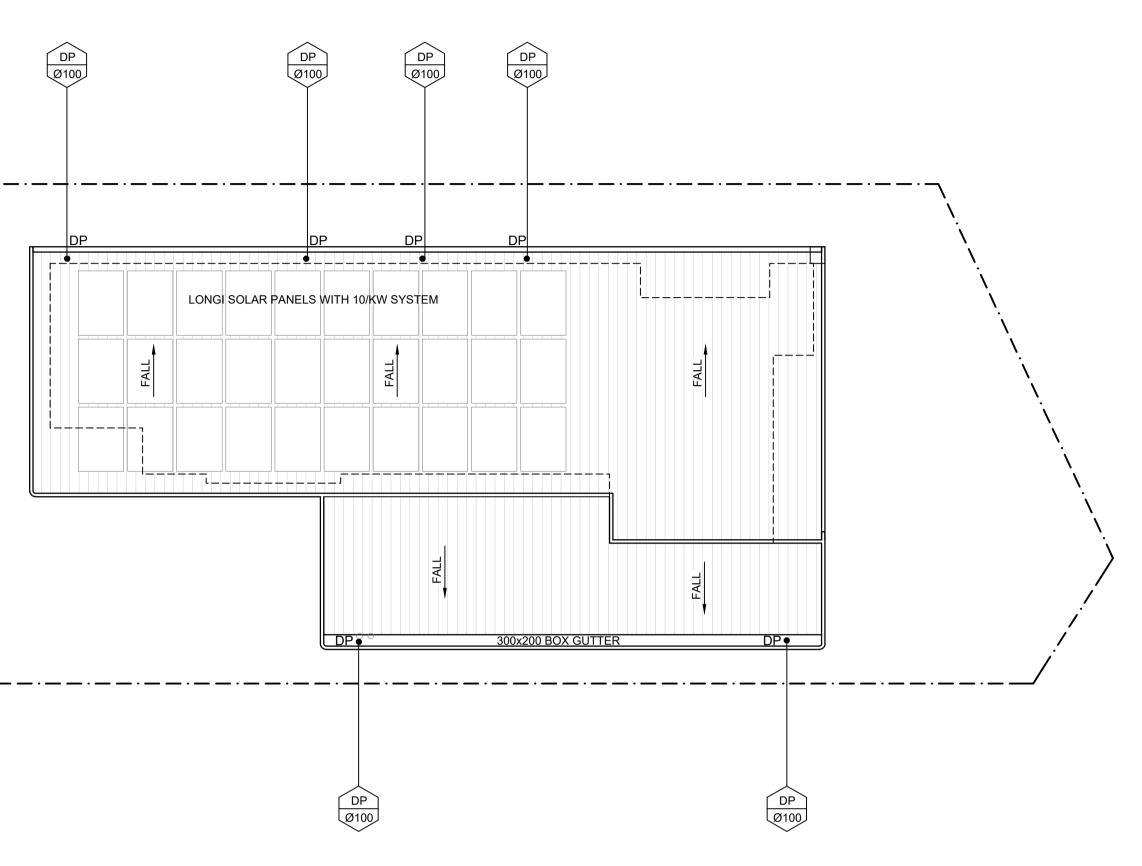
SYMBOLS	
F.F.L.	FINISHED FLOOR LEVEL
F.G.L.	FINISHED GARAGE LEVEL
Т.К.	TOP OF KERB
* 11.0	FINISHED LEVEL
+ 11.0	EXISTING LEVEL
S.L.	SURFACE LEVEL
I.L.	INVERT LEVEL
20 R	ROOF CATCHMENT AREA (m2)
20	IMPERVIOUS CATCHMENT AREA (m2)
20 L	LANDSCAPED CATCHMENT AREA (m2)
• DP	Ø100 DOWN PIPE OR EQUIVALENT
• SP	SPREADER
• VD	VERTICAL DROP
• VR	VERTICAL RISER
- OF	SAFETY OVERFLOW
	RAIN WATER HEAD & DOWN PIPE
$\otimes$	CLEAN OUT POINT
⊜ SUMP	Ø150 SUMP
	CONCRETE COVER JUNCTION PIT
	GRATED INLET PIT 450x450
	200Wx100D GRATED DRAIN WITH 2% BTM SLOPE
	STORMWATER PIPE
	SUSPENDED STORMWATER PIPE
	STORMWATER PIPE TO RWT
	PUMP LINE
	Ø100 SUBSOIL PIPE
<u> </u>	SILT FENCE
$\Box$	OVERLAND FLOW

## EROSION CONTROL NOTES

- 1. ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION.
- 2. ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC.
- 3. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT
- LADDEN WATER, TO COUNCIL'S STANDARDS 4. NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN
- WATERS ACT. 5. ALL TOPSOIL TO BE CONSERVED FOR RE-USE ON SITE
- NOTES

← FALLS

- ALL LINES ARE TO BE Ø100 U.P.V.C @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWER GRADE & SEALED.
- 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
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- 5. PITS LESS THAN 600 DEEP MAY BE BRICK, PRECAST OR CONCRETE. 6. PITS DEEPER THAN 900 MUST BE 900x900 AND HAVE STEP RUNGS AT 300 CENTRES.
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- 16. EXISTING STORMWATER PIPE LOCATIONS HAVE BEEN ASSUMED. PLUMBER TO INSPECT PRIOR TO WORKS AND UPGRADE PIPES AS NECESSARY.



# ROOF DRAINAGE PLAN

SCALE 1:100 NOTE:

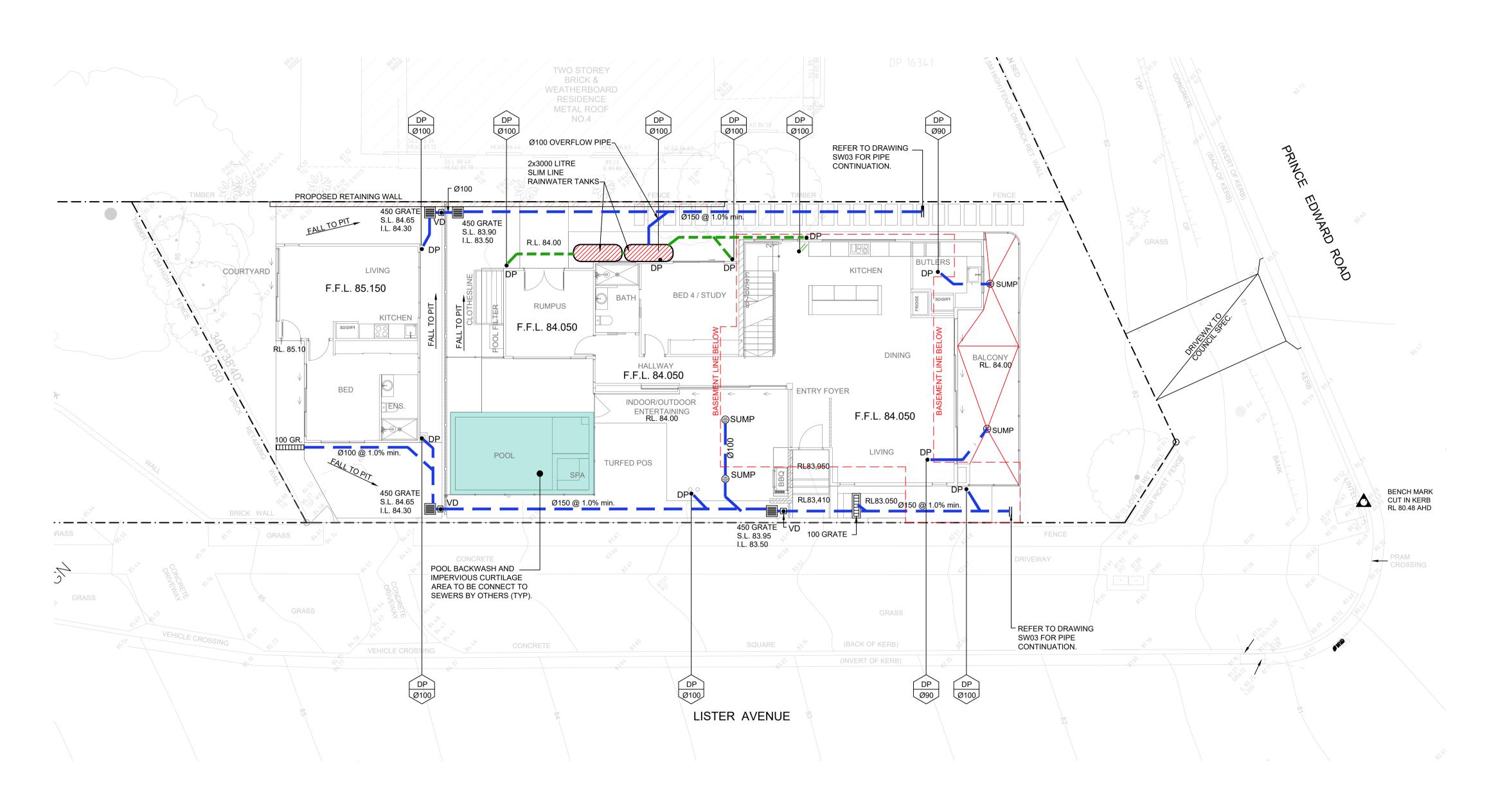
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- WATERPROOF ALL CONCRETE ROOFS
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- AND PAINTED TO PROTECT THEM AGAINST ULTRA-VIOLET LIGHT DAMAGE.

REFER TO DRAWING No. SW04 & SW05 FOR ALL DRAINAGE DETAILS

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R	evision								
Rev	Date		Descrip	tion					
A	05.12.2	2024	ISSUE I	FOR DA					
В	02.05.2	2025	ISSUE I	FOR DA (SW RI	EDESIGN)				
С	15.05.2			FOR DA (AMEN	/				
D	12.06.2	2025	ISSUE I	FOR DA (AMEN	DED ARCH)				
PRO	PROJECT: PROPOSED NEW RESIDENCE 2 PRINCE EDWARD ROAD,								
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RO	of Dr	RAINA	GE P	LAN					
NATIONAL ENGINEERING CONSULTANTS PTY LTD									
3/10 Childs Road, Chipping Norton, NSW 2170 e: info@neconsultants.com.au ABN:97 672 826 345 ACN: 672 826 345									
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F.G.L.	FINISHED GARAGE LEVEL
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# GROUND FLOOR DRAINAGE PLAN

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- MINIMUM ROOF FALL 1% TO OUTLETS
   WATERPROOF ALL CONCRETE ROOFS
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- ALL BALCONIES TO HAVE FLOOR WASTE AND 1% FALL WITH SAFETY OVERFLOW
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REFER TO DRAWING No. SW04 &

SW05 FOR ALL DRAINAGE DETAILS

ISSUE FOR DA ONLY

# Revision Rev Date Description A 05.12.2024 ISSUE FOR DA B 02.05.2025 ISSUE FOR DA (SW REDESIGN) C 15.05.2025 ISSUE FOR DA (AMENDED ARCH) D 12.06.2025 ISSUE FOR DA (AMENDED ARCH)

PROJECT:

PROPOSED NEW RESIDENCE 2 PRINCE EDWARD ROAD, SEAFORTH

COUNCIL: NORTHERN BEACHES

CLIENT: SOPHIA & STUART NAYLOR

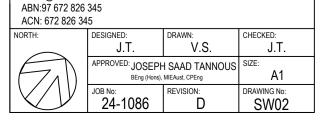
BUILDER:

ARCHITECT: NEW PARADIGM DESIGN PTY LTD

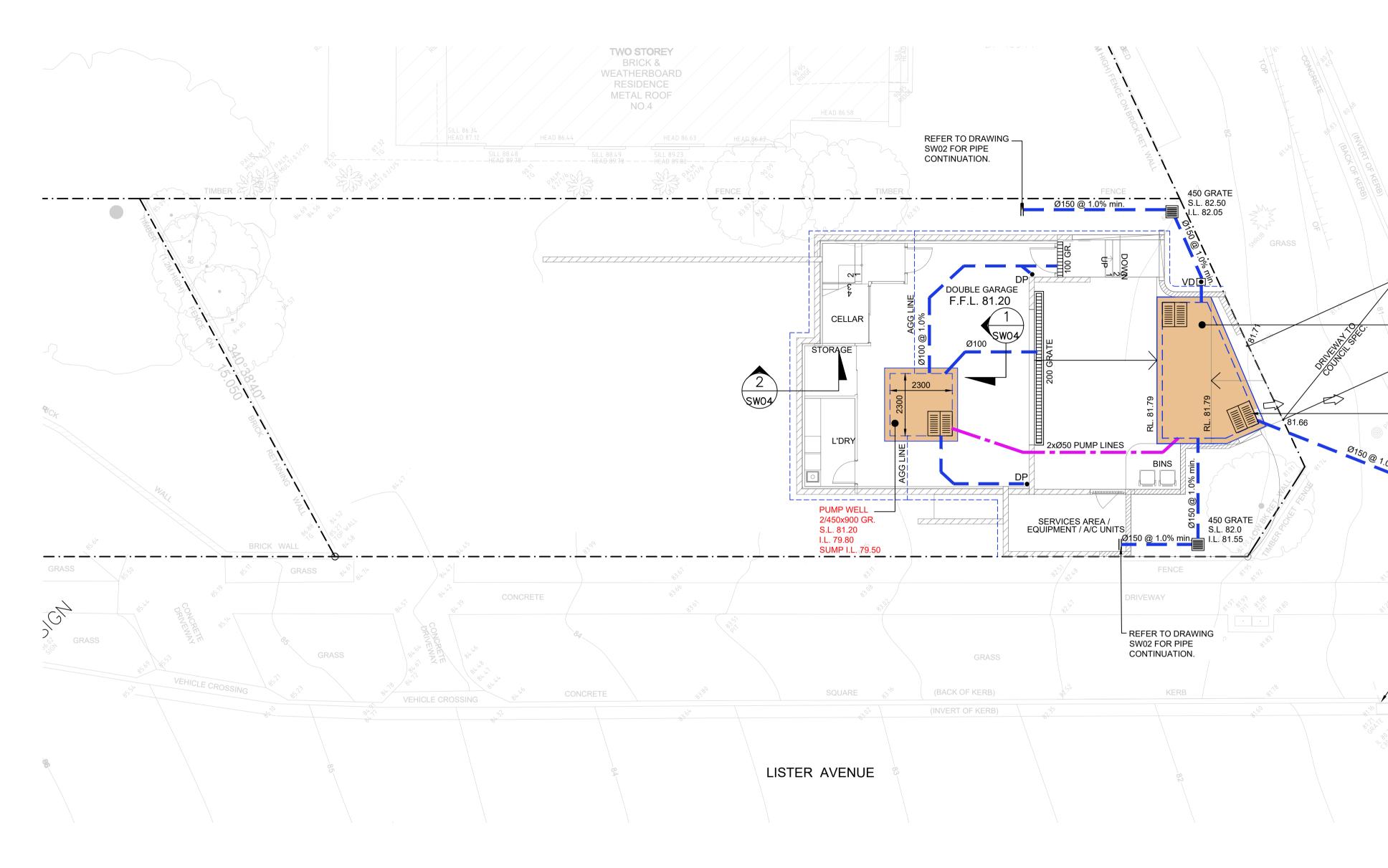
DRAWING TITLE: GROUND FLOOR DRAINAGE PLAN



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SYMBOLS	6					
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PRIOR TO WORKS AND UPGRADE PIPES AS NECESSARY.

# **BASEMENT DRAINAGE PLAN**

#### SCALE 1:100 NOTE:

- 1. ENGINEER TO INSPECT D.C.P.1 DURING CONSTRUCTION
- MINIMUM ROOF FALL 1% TO OUTLETS
   WATERPROOF ALL CONCRETE ROOFS
- PROVIDE SAFETY OVERFLOW TO ALL ROOFS
   ALL BALCONIES TO HAVE FLOOR WASTE AND 1% FALL WITH SAFETY OVERFLOW
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# ISSUE FOR DA ONLY

Revision						
Rev	Date	Description				
Α	05.12.2024	ISSUE FOR DA				
В	02.05.2025	ISSUE FOR DA (SW REDESIGN)				
С	15.05.2025	ISSUE FOR DA (AMENDED ARCH)				
D	12.06.2025	ISSUE FOR DA (AMENDED ARCH)				

PROJECT:

EDWARD

RO

B

O.S.D. TANK AREA = 13.24m2

TWL 81.44

- EMERGENCY OVERLAND FLOW

- D.C.P.1 2/450x900 GRATE

BENCH MARK

CUT IN KERB

RL 80.48 AHD

S.L. 81.74

I.L. 80.405

PATH

AVG. DEPTH = 950mm

MAX. DEPTH = 960mm VOLUME = 12.71m3

> PROPOSED NEW RESIDENCE 2 PRINCE EDWARD ROAD, SEAFORTH

COUNCIL: NORTHERN BEACHES

CLIENT: SOPHIA & STUART NAYLOR

BUILDER:

ARCHITECT: NEW PARADIGM DESIGN PTY LTD

DRAWING TITLE: BASEMENT DRAINAGE PLAN

e: info@neconsultants.com.au

ABN:97 672 826 345

ACN: 672 826 345



J.T. V.S.

JOB No: 24-1086 BEng (Hons), MIEAust, CPEng REVISION: D

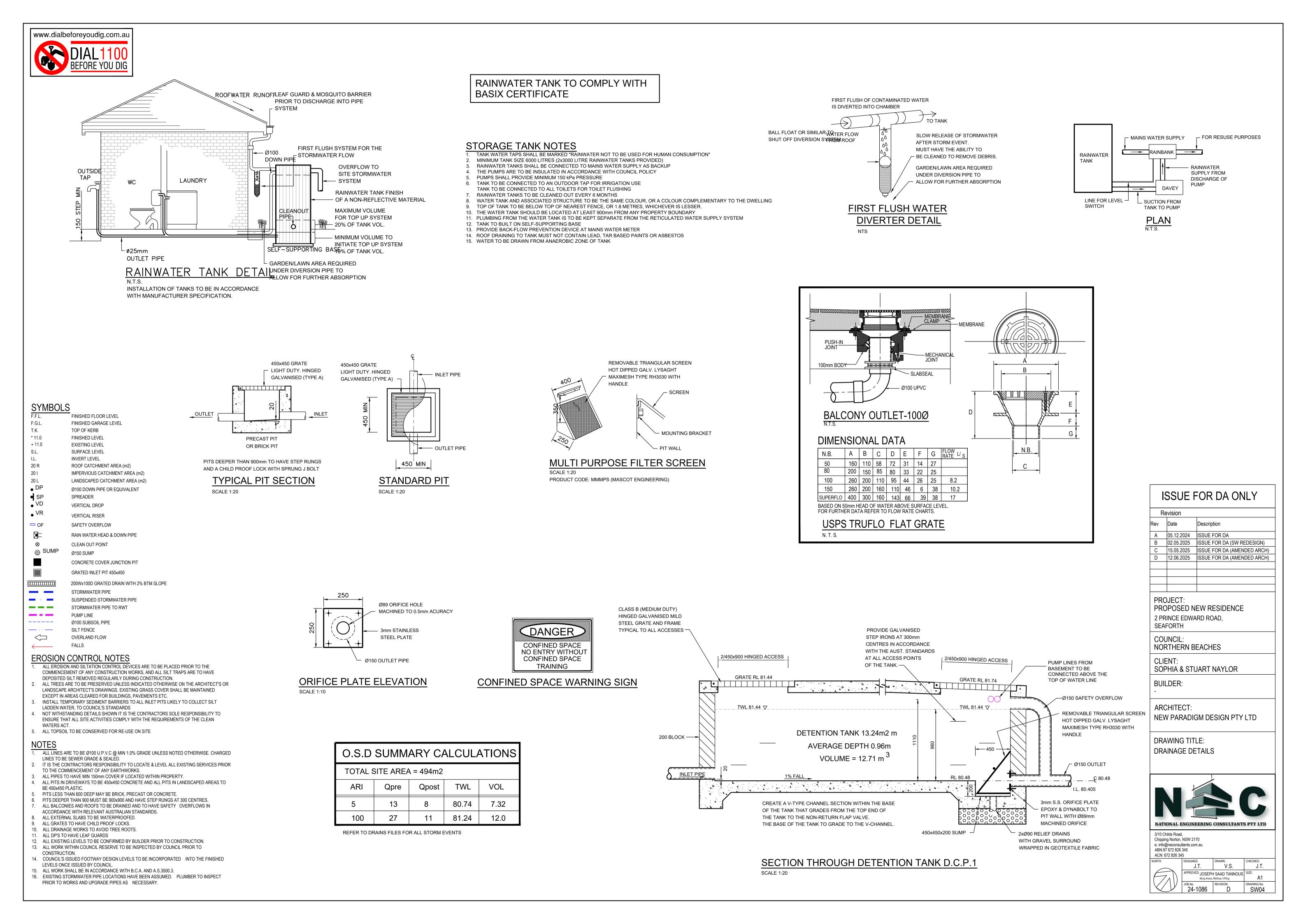
APPROVED: JOSEPH SAAD TANNOUS SIZE:

CHECKED:

J.T.

A1

DRAWING No:



# www.dialbeforeyoudig.com.au



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COMPONENTS

- 1. 2 x ALINE, MODEL AL750-1, 0.75kW, 240 VOLT SUBMERSIBLE PUMPS 2. 2x ALINE DIFFERENTIAL FLOAT SWITCHES MODEL 9006 COMPLETE WITH 20m CABLES.

- 3. 1x DUAL DOL CONTROL PANEL WITH: MAIN ISOLATING SWITCH

CIRCUIT BREAKERS FOR EACH MOTOR AND CONTROL CIRCUIT.

- AUTOMATIC ALTERNATION

LIGHTS, CODED DATA OUTPUT FOR BMS CONNECTION

- MANUAL/OFF/AUTO SWITCH FOR EACH PUMP

AUDIBLE ALARM WITH MUTE BUTTON

4. SET OF VALVES AND FITTINGS TO SUIT

POWER REQUIREMENTS:

5. INSTRUCTION AND MAINTENANCE MANUAL

240 VOLTS, 0.75 KW & 6 AMPS EACH PUMP

PUMP SPECIFICATIONS

#### F.F.L. FINISHED FLOOR LEVEL F.G.L. FINISHED GARAGE LEVEL T.K. TOP OF KERB \* 11.0 FINISHED LEVEL + 11.0 EXISTING LEVEL SURFACE LEVEL S.L. INVERT LEVEL I.L ROOF CATCHMENT AREA (m2) 20 R 20 I IMPERVIOUS CATCHMENT AREA (m2) 20 L LANDSCAPED CATCHMENT AREA (m2) • DP Ø100 DOWN PIPE OR EQUIVALENT SP SPREADER • VD VERTICAL DROP • VR VERTICAL RISER SAFETY OVERFLOW 🖵 OF RAIN WATER HEAD & DOWN PIPE $\otimes$ CLEAN OUT POINT ⊜ SUMP Ø150 SUMP CONCRETE COVER JUNCTION PIT GRATED INLET PIT 450x450 200Wx100D GRATED DRAIN WITH 2% BTM SLOPE STORMWATER PIPE SUSPENDED STORMWATER PIPE STORMWATER PIPE TO RWT \_\_\_\_ PUMP LINE \_\_\_\_\_ Ø100 SUBSOIL PIPE SILT FENCE \_\_\_\_. $\leq$ OVERLAND FLOW

SYMBOLS

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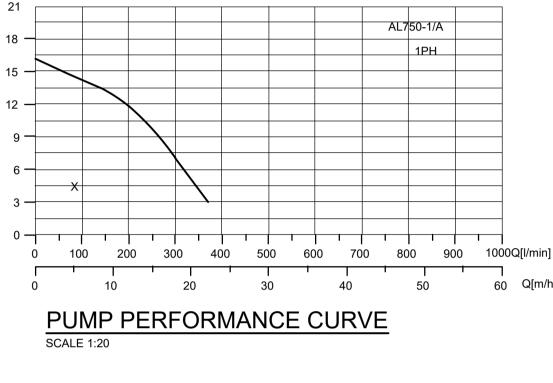
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CLEANOUT-

BASEMENT

WATERPROOF MEMBRANE

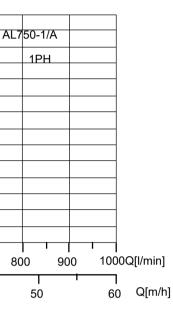
OVER 30 SAND BLIND

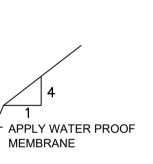
(10mm AGGREGATE)

AND 75mm BLUE METAL

## 6. NOTE: CONDUIT FROM PIT TO WALL SHOULD BE MINIMUM 50mm (OR 2x32 mm) WITH LONG RADIUS BENDS

TYPI	E	HF	5	ĸw	со	ONTINUOUS AMP RATING		-	OPERATING TEMPERATURE		VC	DLTAGE	AUTO/ MANUAL	DISCHARGE (MM)	CABLE LENGTH
Oper Chann		1.0	)	0.75		(	6	0	0°C to 40°C			240V	Manual/ Automatic	50	10M
OU.	TLET		MA	AX FLO	W		FLOW AT M HEAD (LPM)				r	MAX HEAI	d DIME	INSIONS	WEIGHT
ММ	INC	Н		(LPM)		3M 6M		9M	12M	15M	1	(M)	LXW	X H (MM)	(KG)
50	2"	•		380		370	320	270	190	50		13	525 x 2	250 x 280	27





Ø100 AGG PIPE IN RUBBLE DRAIN, CONNECT TO FREE OUTLET

25mm MIN. SINGLE SIZED AGGREGATE

SECTION 2

SW03

SCALE 1:20

SECTION 1

\ SW03 )

SCALE 1:20

ØAGG PIPE - 😽

# WATERPROOF MEMBRANE OVER 30 SAND BLIND AND 75mm BLUE METAL (10mm AGGREGATE)

## PUMP WELL DETAILS

SUMP SIZE AND PUMP SIZE BASE ON 100 YEAR 2 HOUR STORM INTENSITY IS 62.3 mm/hr, AREA DRAINING TOWARDS SUMP IS 48m2 Q=CIA/3600 =1.0x62.3x48/3600 = 0.83 l/s VOLUME REQUIRED IS 0.83x(2x60x60) = 5,976 litres STORAGE PROVIDED 2300x2300x1200 = 6,348 litres

USE DUAL AL750-1A OR SIMILAR

THEREFORE ADEQUATE STROAGE PROVIDED

TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMPS TO ACT ALTERNATIVELY AT 3.53m HEAD

## STANDARD PUMP OUT DESIGN NOTES

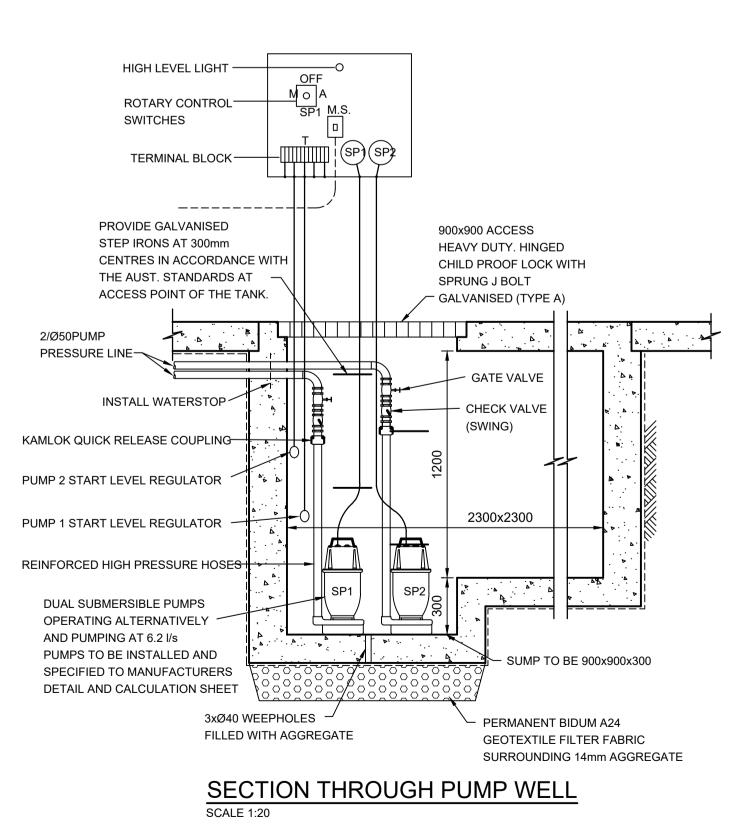
THE PUMP SHALL BE PROGRAMMED TO WORK ALTERNATIVELY SO AS TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.

A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.

A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.

A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.

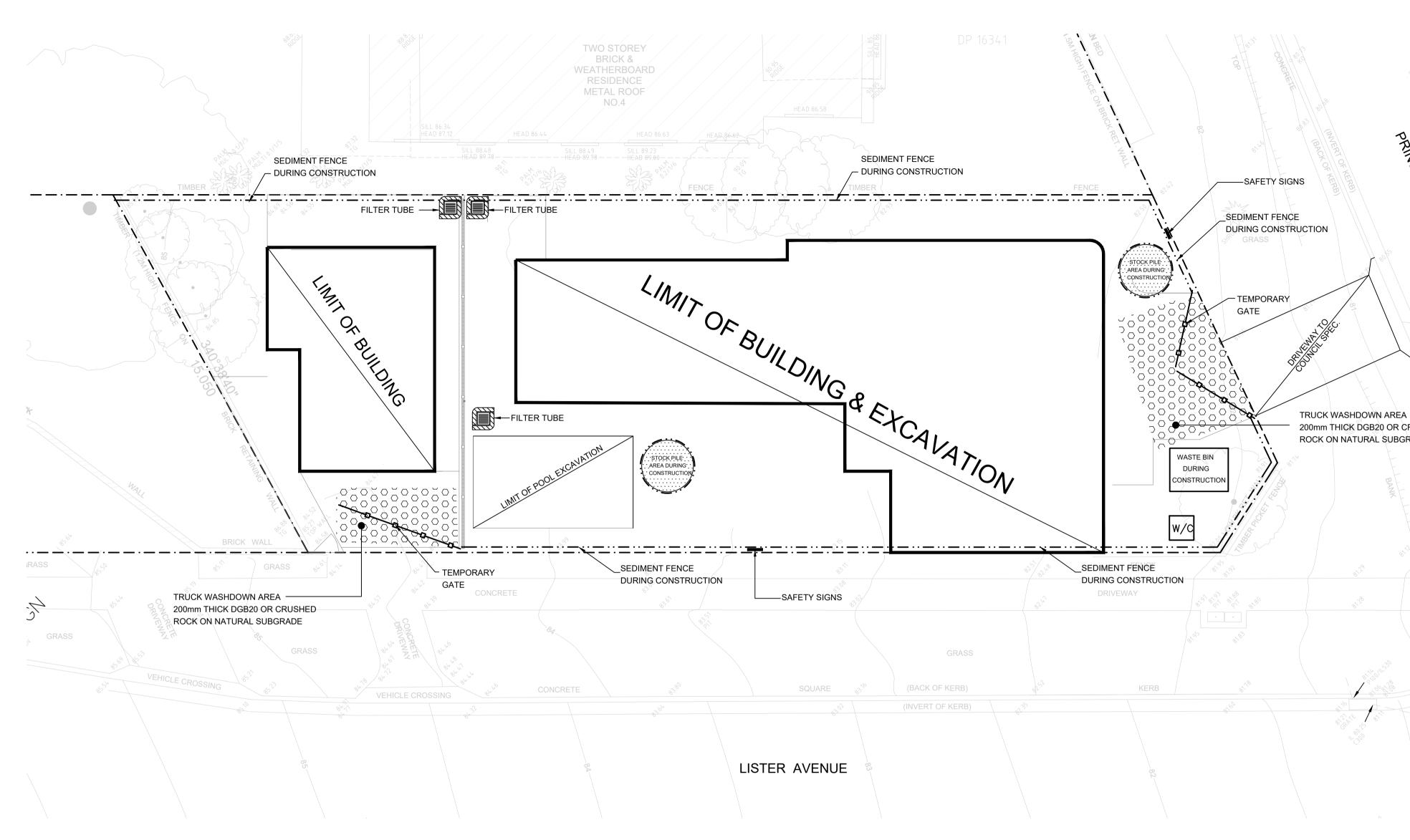
AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT AN A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.



## ISSUE FOR DA ONLY

	Revision	
Rev	Date	Description
A	05.12.2024	ISSUE FOR DA
B	02.05.2025	ISSUE FOR DA (SW REDESIGN)
C	15.05.2025	ISSUE FOR DA (AMENDED ARCH)
D	12.06.2025	ISSUE FOR DA (AMENDED ARCH)
PR 2 P	UJECT: OPOSED N RINCE EDW, AFORTH	NEW RESIDENCE ARD ROAD,
	UNCIL: RTHERN E	BEACHES
	IENT: PHIA & ST	UART NAYLOR
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AR	CHITECT:	GM DESIGN PTY LTD
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DR DR DR NAT	AWING TIT AINAGE DI AINAGE DI TIONAL ENGIN Childs Road, bing Norton, NSW 2 b@neconsultants.cc 97 672 826 345 672 826 345	TLE: ETAILS
DR DR NAT	AWING TIT AINAGE DI AINAGE DI TIONAL ENGIN Childs Road, bing Norton, NSW 2 b@neconsultants.cc 97 672 826 345 672 826 345 DESIGN	TLE: ETAILS EERING CONSULTANTS PTY LTD 170 om.au ED: J.T. V.S. CHECKED: J.T.
DR DR NAT	AWING TIT AINAGE DI AINAGE DI TIONAL ENGIN Childs Road, bing Norton, NSW 2 b@neconsultants.cc 97 672 826 345 672 826 345 DESIGN	TLE: ETAILS





F.G.L.	FINISHED GARAGE LEVEL
Т.К.	TOP OF KERB
* 11.0	FINISHED LEVEL
+ 11.0	EXISTING LEVEL
S.L.	SURFACE LEVEL
I.L.	INVERT LEVEL
20 R	ROOF CATCHMENT AREA (m2)
20 I	IMPERVIOUS CATCHMENT AREA (m2)
20 L	LANDSCAPED CATCHMENT AREA (m2)
● DP	Ø100 DOWN PIPE OR EQUIVALENT
• SP	SPREADER
• VD	VERTICAL DROP
● VR	VERTICAL RISER
🖵 OF	SAFETY OVERFLOW
$\mathbf{X} =$	RAIN WATER HEAD & DOWN PIPE
$\otimes$	CLEAN OUT POINT
⊜ SUMP	Ø150 SUMP
	CONCRETE COVER JUNCTION PIT
	GRATED INLET PIT 450x450
	200Wx100D GRATED DRAIN WITH 2% BTM SLOPE
	STORMWATER PIPE
	SUSPENDED STORMWATER PIPE
	STORMWATER PIPE TO RWT
	PUMP LINE
	Ø100 SUBSOIL PIPE
<u> </u>	SILT FENCE
$\langle \Box$	OVERLAND FLOW
<u> </u>	FALLS
N	

FINISHED FLOOR LEVEL



- 1. ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION.
- ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC.
- INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADDEN WATER, TO COUNCIL'S STANDARDS
- NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO Δ ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.
- 5. ALL TOPSOIL TO BE CONSERVED FOR RE-USE ON SITE

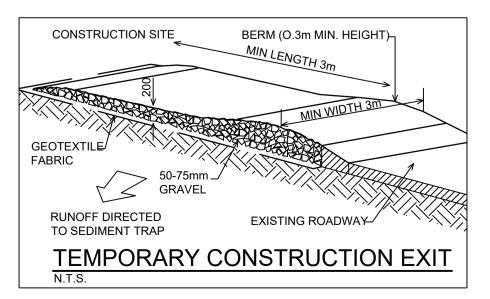
## NOTES

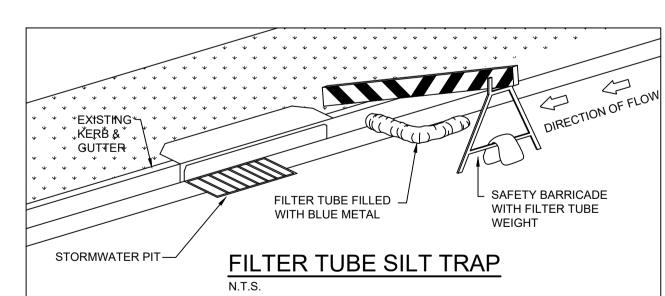
SYMBOLS

F.F.L.

- 1. ALL LINES ARE TO BE Ø100 U.P.V.C @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWER GRADE & SEALED.
- 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
- 4. ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 PLASTIC.
- PITS LESS THAN 600 DEEP MAY BE BRICK, PRECAST OR CONCRETE. PITS DEEPER THAN 900 MUST BE 900x900 AND HAVE STEP RUNGS AT 300 CENTRES.
- ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- ALL EXTERNAL SLABS TO BE WATERPROOFED.
- 9. ALL GRATES TO HAVE CHILD PROOF LOCKS. 10. ALL DRAINAGE WORKS TO AVOID TREE ROOTS.
- 11. ALL DP'S TO HAVE LEAF GUARDS
- 12. ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
- 13. ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
- 14. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
- 15. ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3. 16. EXISTING STORMWATER PIPE LOCATIONS HAVE BEEN ASSUMED. PLUMBER TO INSPECT
- PRIOR TO WORKS AND UPGRADE PIPES AS NECESSARY.

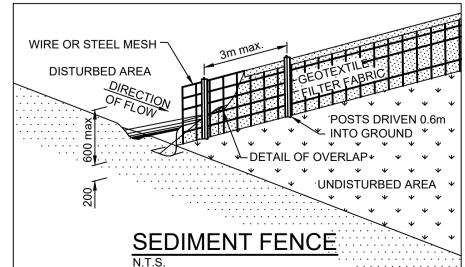


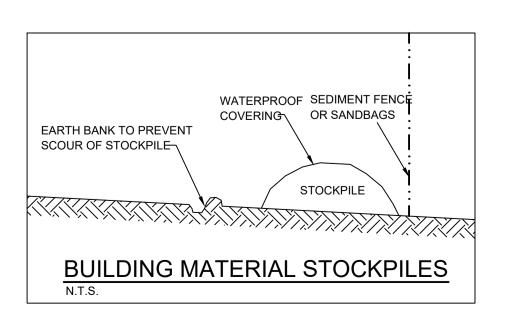




# SOIL & WATER MANAGEMENT PLAN

NOTE: CONNECT DOWN PIPES AS SOON AS ROOF IS ON.





# SEDIMENT CONTROL NOTES

- STANDARDS OF SOIL CONSERVATION N.S.W. 2. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILIZED AS
- EARLY AS POSSIBLE DURING DEVELOPMENT.
- CONSISTING OF 300mm WIDE x 300mm DEEP TRENCH. 4. ALL SEDIMENT BASINS AND TRAPS SHALL BE CLEANED WHEN THE
- INCLUDING DURING THE MAINTENANCE PERIOD.
- 5. ALL DISTURBED AREAS SHALL BE REVEGETATED AS SOON AS THE RELEVANT WORKS ARE COMPLETED.
- 6. AND AREAS WHERE WATER MAY CONCENTRATE.
- 8. CONTROL SURFACE WATER FLOW IN A MANNER THAT: A- DIVERTS RUN-OFF AROUND DISTURBED AREAS B- MINIMISES SLOPE AND FLOW DISTANCE WITHIN DISTURBED AREAS

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PROJECT:

PROPOSED NEW RESIDENCE 2 PRINCE EDWARD ROAD, SEAFORTH

COUNCIL: NORTHERN BEACHES

CLIENT: SOPHIA & STUART NAYLOR

BUILDER:

ARCHITECT: NEW PARADIGM DESIGN PTY LTD

DRAWING TITLE: SOIL & WATER MANAGEMENT PLAN



NATIONAL ENGINEERING CONSULTANTS PTY LTD

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NORTH:	DESIGNED: J.T.	DRAWN: V.S.	CHECKED: J.T.					
Fi		SAAD TANNOUS	SIZE: A1					
$\langle \mathcal{V} \rangle$	<sup>JOB №:</sup> 24-1086	REVISION: D	DRAWING No:					

200mm THICK DGB20 OR CRUSHED ROCK ON NATURAL SUBGRADE

PRINCE

EDWARD

ROAD

**BENCH MARK** 

CUT IN KERB

RL 80.48 AHD

-

ALL EROSION AND SEDIMENTATION CONTROL MEASURES, INCLUDING REVEGETATION AND STORAGE OF SOIL, SHALL BE IMPLEMENTED TO THE

3. SEDIMENT TRAPS SHALL BE CONSTRUCTED AROUND ALL INLET PITS,

STRUCTURES ARE A MINIMUM OF 60% FULL OF SOIL MATERIALS,

SOIL AND STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES

FILTER SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR APPROVED EQUIVALENT BETWEEN POST AT 3.0M CENTERS. FABRIC SHALL BE BURIED 150 mm ALONG ITS LOWER EDGE.

C- ENSURES SURFACE RUN-OFF OCCURS AT NON-ERODABLE VELOCITIES D- ENSURES DISTURBED AREAS ARE PROMPTLY REHABILITATED