

FLOW EQUALISATION PIT — RL = MATCH EXISTING

DENOTES SUBSOIL DRAIN

<u>150</u>
<u>DENOTES PIPE DIAMETER IN MM</u>

DENOTES DOWNPIPE - TO FUTURE DETAILS

IL = 4.92

RL 7.490

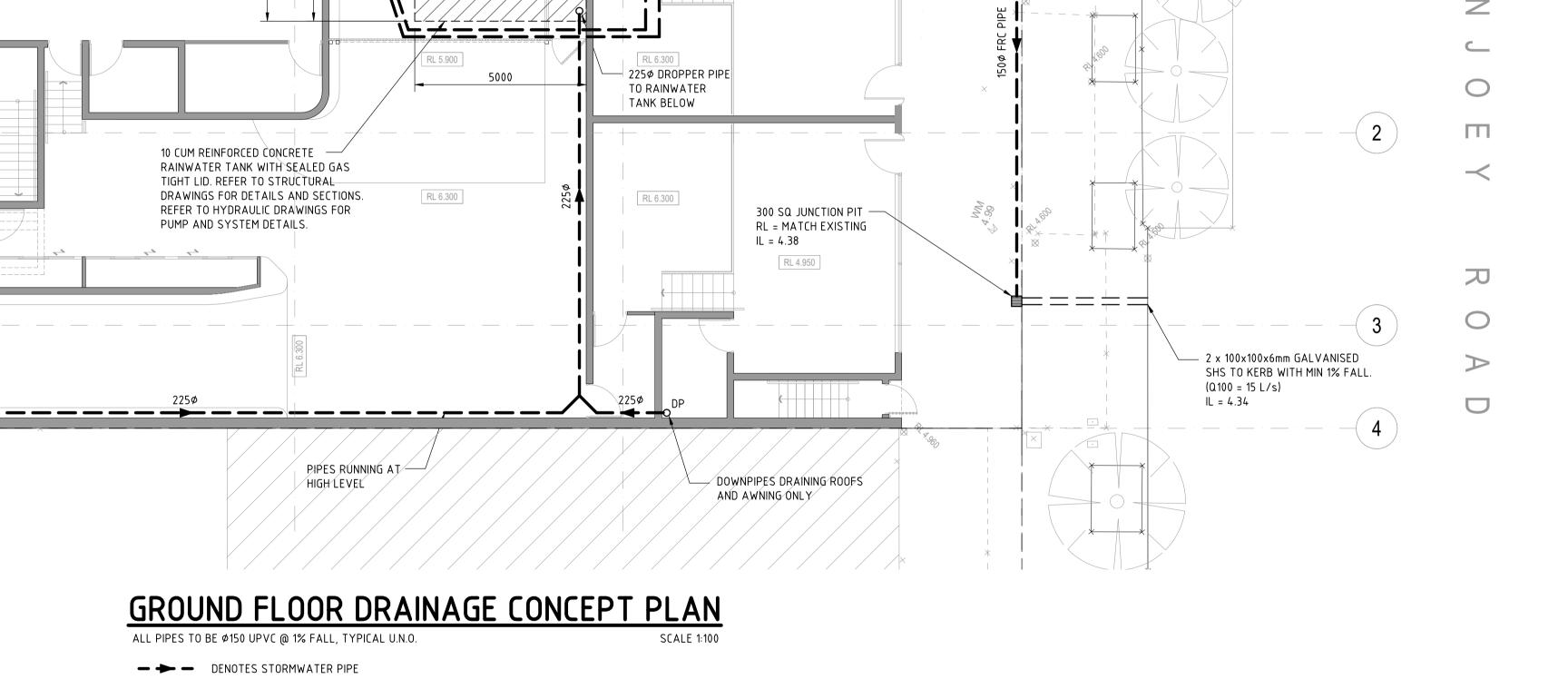
600 SQ GRATED PIT WITH

RL = MATCH EXISTING

OCEANGUARD

RL 7.490

DOWNPIPES DRAINING ROOFS — AND AWNING ONLY



80¢ PUMP LINE FROM BELOW

RL 4.950



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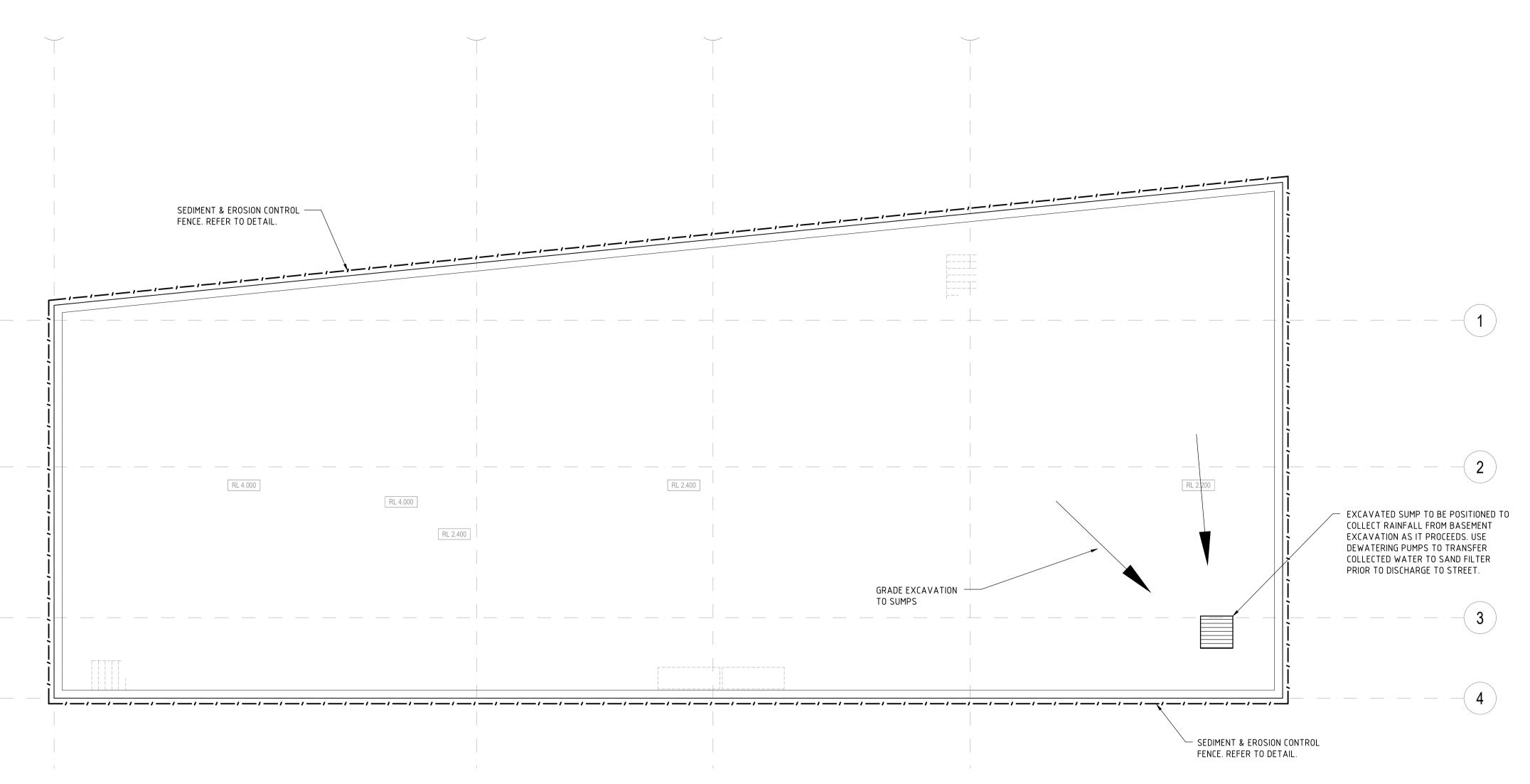
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	P1 17.07.20 REV.No DATE	PRELIMINARY ISSUE	RAL	notes.	NOT FOR CONSTRUCTION	Summit Build Pty Ltd	TITLE: GROUND FLOOR DRAINAGE CONCEPT PLAN	SW02 P2





SEDIMENT CONTROL PLAN SCALE 1:100

— ,— ,— INDICATES SEDIMENT FENCE

INDICATES HAY BALE WALL

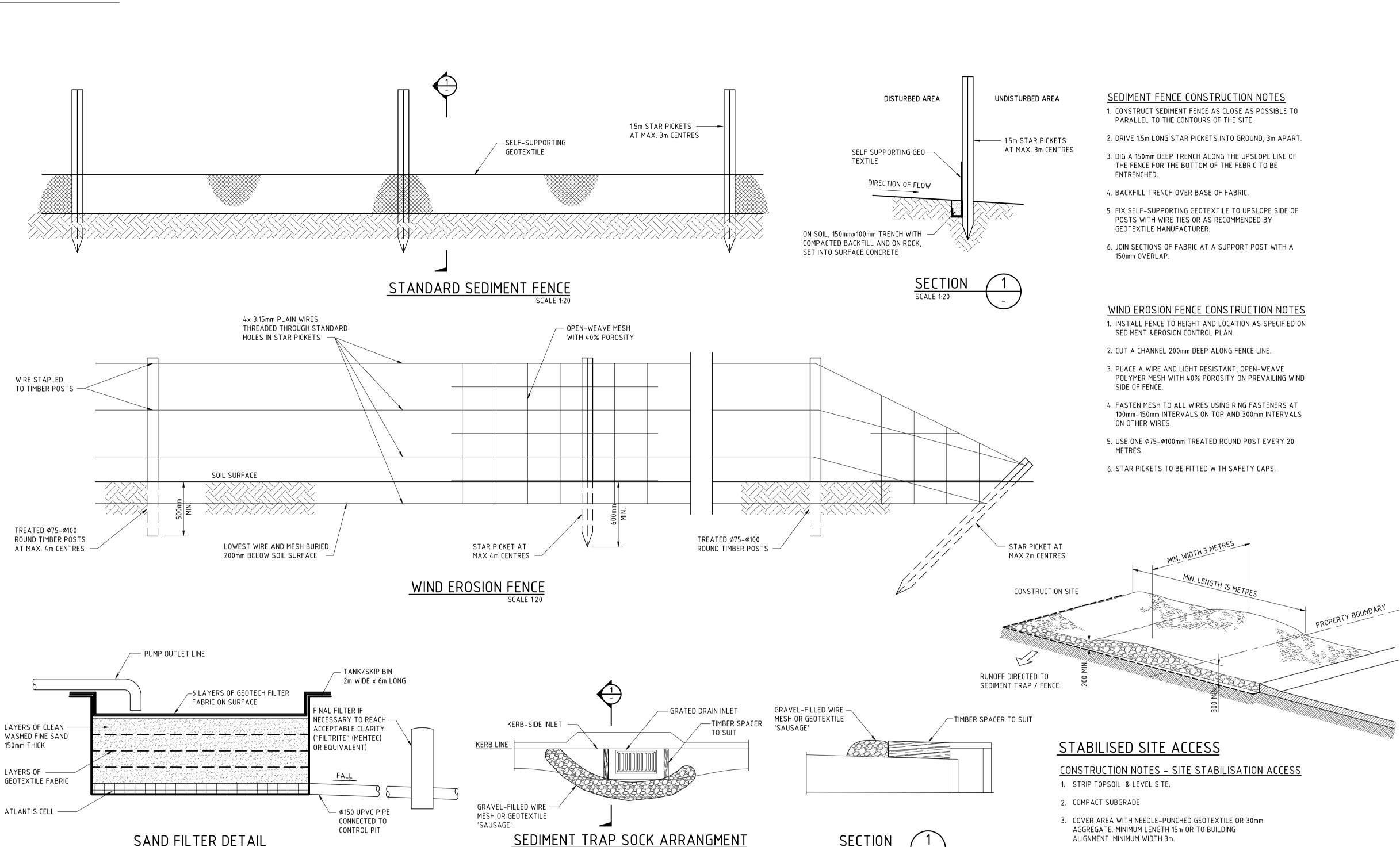
INDICATES TYPICAL DISTURBED CONSTRUCTION ZONE

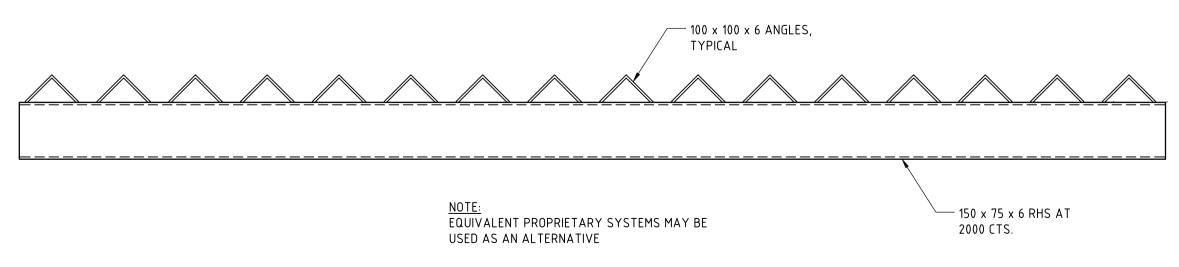
EROSION & SEDIMENT CONTROL NOTES

- ALL EROSION & SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AS SHOWN ON THE DRAWINGS.
- 2. DUST SHALL BE CONTROLLED BY REGULAR MOISTENING OF EXCAVATED SERVICES AND STOCKPILES.

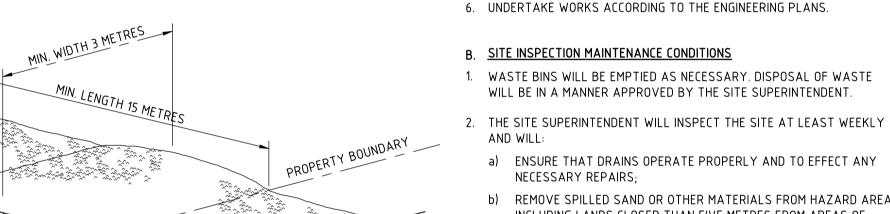


P2 24.08.20 TITLE BLOCK REVISED RAL including but not limited to all construction notes. P2 24.08.20 TITLE BLOCK REVISED RAL Including but not limited to all construction notes. TITLE: SEDIMENT AND EROSION SEDIME	P1 17.07.20 PRELIMINARY ISSUE Including but not limited to all construction notes. NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION CLIENT: Summit Build Pty Ltd	DESIGNED: JD DATE: JUL 2020 DRAWN: RAL CHECKED: DW 220088 DRAWING: REVISION: SW03 P2
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TYPICAL TRUCK SHAKER



- a) ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS;
- b) REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN FIVE METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS

Demlakian Engineers Pty Limited T/A Demlakian Consulting Engineers ABN 42 928 564 091

P.O. Box 207, Crows Nest NSW 2065

EROSION & SEDIMENT CONTROL NOTES

. ALL EROSION & SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AS

B. THE TEMPORARY SEDIMENT TRAP PIT SHALL BE CLEANED REGULARLY. IN

DEWATERING OF THE EXCAVATION, PUMPING SHALL BE STOPPED AND THE

4. DUST SHALL BE CONTROLLED BY REGULAR MOISTENING OF EXCAVATED

THE EVENT THE GEOTEXTILE FILTER BECOMES CLOGGED DURING

SOIL & WATER MANAGEMENT PLAN NOTES

2. INSTALL ALL BARRIER FENCING TO EXCLUDE ACCESS TO THE

3. CONSTRUCT EARTH BANKS AND CUT-OFF DRAINS TO DIRECT OVERLAND

4. CONSTRUCT EARTH BANKS & CUT-OFF DRAINS TO DIRECT OVERLAND

5. STRIP AND STOCKPILE TOPSOIL FROM THOSE LANDS TO BE EXPOSED TO

2. THE TRUCK SHAKER SHALL BE REGULARLY CLEANED BY LIFTING, DISLODGING &

SHOWN ON THE DRAWINGS.

FILTER CLEANED OR RENEWED.

SERVICES AND STOCKPILES.

A. CONSTRUCTION SEQUENCE

FLOW BEYOND THE SITE.

CONSTRUCTION ACTIVITIES.

1. CONSTRUCT STABILISED SITE ACCESSES.

FLOW TO THE DESIGNATED OUTLET PIT.

NOMINATED RESTRICTED AREAS.

REMOVING SPOIL.

Level 1, 126 Willoughby Road Crows Nest NSW 2065

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- c) REMOVE TRAPPED SEDIMENT WHENEVER LESS THAN DESIGN CAPACITY REMAINS WITHIN THE STRUCTURE;
- d) ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS
- e) MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED; AND
- f) REMOVE TEMPORARY SOIL CONSERVATION STRUCTURES AS THE LAST ACTIVITY IN THE REHABILITATION PROGRAM.
- 3. AS A PART OF THE STATUTORY "DILIGENCE AND CARE" RESPONSIBILITIES, THE SITE SUPERINTENDENT WILL KEEP A LOG BOOK, MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:
- a) THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS;
- b) THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS, c) THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE;
- d) THE NEED FOR DUST PREVENTION STRATEGIES; AND
- e) ANY REMEDIAL WORKS TO BE UNDERTAKEN.
- THE BOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON ON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF WORKS.

	100 x 100 x 6 ANGLES, TYPICAL				
<u> </u>					
	NOTE: EQUIVALENT PROPRIETARY SYSTEMS MAY BE USED AS AN ALTERNATIVE	150 x 75 x 6 RHS AT 2000 CTS.			
	TVD16.1. TD11614 611.14TD				

NOTE: This drawing must be read in conjunction with ALL other drawings for this project RAL TITLE BLOCK REVISED P2 24.08.20 including but not limited to all construction RAL P1 17.07.20 PRELIMINARY ISSUE notes. REV.No DATE **REVISION**

PRELIMINARY NOT FOR CONSTRUCTION ARCHITECT: Crawford Architects

Summit Build Pty Ltd

4. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO

DIVERT WATER TO A SEDIMENT FENCE OR SEDIMENT TRAP.

PROJECT: Shop Top Housing

CONTROL PLAN

349 Barrenjoey Road NEWPORT

DEMLAKIAN

INTELLIGENT THINKING

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SEDIMENT & EROSION

Shop Top Housing - STORMWATER 349 Barrenjoey Road NEWPORT

STORMWATER DRAINAGE NOTES:

GENERAL NOTES:

- D1. All levels are to Australian Height Datum (AHD), unless noted
- D2. Dimensions shall not be scaled from drawings.
- D3. The Contractor must verify all dimensions on site prior to commencement of the works.
- D4. These plans shall be read in conjunction with the approved Architectural, Structural, Mechanical, Hydraulic, Electrical, Landscape
- D5. Where new work abuts existing, the Contractor shall ensure a smooth even profile free from abrupt changes.

D6. The Contractor shall arrange for all survey setout & as-built to be

- performed by a Registered Surveyor. D7. Invert levels are given at critical locations. The Contractor/Drainer shall determine levels on minor drainage lines and confirm design
- D8. Stormwater drains min. fall 1:100, unless noted otherwise.
- D9. Advise Engineer for Inspection of all Stormwater works, pipes & pits, prior to covering. Provide as-built survey upon completion.
- D10. Construction of Drainage to conform with the requirements of the relevant Authority or Council.
- D11. Connections to new & existing drainage shall be neatly trimmed & cement rendered to a smooth finish.
- D12. All work shall be in accordance with AS3500 'National Plumbing & Drainage Code', unless noted otherwise.
- D13. The Contractor shall expose the full drainage route and point of discharge from the site and confirm levels prior to commencing

EXISTING SERVICES:

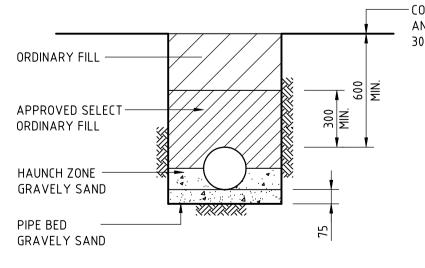
- D14. The Contractor shall excavate for, locate and co-ordinate with all services within & beyond the property line prior to the commencement of the Works.
- D15. Existing services which are to remain shall be adjusted as necessary
- D16. Existing services no longer required shall be capped off and removed out of sight to the relevant authorities requirements.
- D17. Care is to be taken when excavating near existing services. Obtain services setout prior to works. Hand excavate as required to avoid
- D18. Construct temporary services as required.

DRAINAGE PIPES:

- D19. UPVC type pipes shall be used for pipes not greater than 300mm diameter, unless noted otherwise. UPVC pipes shall have solvent welded watertight joints.
- D20. Pipe diameter greater than 300mm shall be FRC type pipe Class '3', unless noted otherwise.
- D21. Pipe laying, bedding & backfill to be in accordance with the specification and the pipe manufacturer's requirements.
- D22. Where UPVC drainage pipes pass under slabs, sewer grade pipes shall
- D23. Contractor shall supply & install all proprietary fittings for connections & junctions.
- D24. Additional subsoil drainage may be required where site conditions & groundwater dictate. Refer to Engineer for site inspection.
- D25. Pipes to be 100ϕ unless noted otherwise.
- D26. Outlet pipes from pits shall have invert level at least 30mm lower than the invert level of the lowest pipe entering the pit.
- D27. Inspection openings or stormwater pits shall be located where shown on the drawings and at the following locations:
- a. Each point of connection b. Even spacing not more than 30m apart. c. Each end of any inclined jump-up which exceeds 6m in length.
- d. Each connection to an existing stormwater drain. e. Any change of direction greater than 45°.
- D28. Inspection openings shall be min 150¢ and shall be plugged or capped in accordance with AS3500.

with requirements of Landscape Architect.

- D29. Planter boxes bases to be lined with 'Atlantis Drainage Cell' or approved equivalent wrapped in geotextile and draining to subsoil drainage pipes connected to the main stormwater system. Co-ordinate
- D30. Junctions in stormwater drains shall be made by means of a proprietary coupler or for pipes of at least 350♥ opening cut as detailed on the drawings.



-COVER UNDER ROADS AND CAR PARKING 300mm ELSEWHERE

TYPICAL PIPE LAYING DETAIL

DRAINAGE PITS:

- D31. All pits and arrestors shall be constructed to the relevant authorities requirements. Provide local falls to nits.
- D32. Minimum cover to all reinforcement in concrete to be 40mm
- D33. Minimum Drainage pit size shall be as follows:

	Minimur	n Internal	Dimensions (mm)	
Depth to Invert (mm)	Recta	ngular	Circular	
,	Width	Length	Diameter	
≤ 600	450	450	600	
>600 ≤ 900	600	600	900	
>900 ≤1200	600	900	1000	
>1200	900	900	1000	

- D34. All pits to have galvanised hinged lockable gratings equivalent to "Grate Drainage Products Pty Ltd" heelguard type. Use Class B in general areas and Class D in areas subject to
- D35. Drainage pit size may need to be increased over minimum to suit pipe size. Pit internal dimensions shall be of least 300mm greater than external diameter of corresponding pipe.
- D36. Pits deeper than 1000mm are to be fitted with step irons at 300mm centres. Contact Engineer for typical detail.
- D37. All exposed pit edges shall be rounded with 20mm radius or 20 x 20
- D38. Walls of cast insitu pits shall be 200mm (min.) thick concrete, grade N32, unless noted otherwise.
- D39. Pits shall be reinforced with SL81 fabric, central in walls & base slab U.N.O. Mesh to be lapped 400mm. Lap mesh at corners or use N12-200 "L" bars lapping 400 each way.
- D40. Approved precast pits may be used.
- D41. Bases of drainage pits shall be grouted to prevent ponding of water, unless noted otherwise.

	LEGEND
	Denotes stormwater pipe.
	Denotes subsoil drain.
<u>100</u> <u></u>	Denotes pipe diameter in mm.
EP	Denotes existing pipe
1:100	Pipe grade as a percentage (min)
I.L.139.50	Denotes invert level.
G.L.139.50	Denotes ground level.
R.L.139.50	Denotes reduced level.
□- -	Denotes stormwater pit.
—	Denotes grated stormwater pit.
K.I.	Denotes kerb entry & roadway pit system (900 x 600)
(Denotes 100 wide x 100 min. depth grated drain type "ACO KS100" with Class A antislip stainless steel heelguard grates U.N.O. Grated drains in areas subject to vehicle loads to be K100 and have Class D "ACO" perforated steel grating.
o ^{D.P}	Denotes downpipes.
0	Denotes downpipe with spreader
⊜ RW0	Represents 100mm round outlet, modelTIA100/90F by speciality plumbing supplier. Cast iron RWO with galvanised heavy duty flat grate.
⊜ вр	Represents smart drain with ø65 outlet pipe cast in slab and connected to surface drainage
⊜ PD	Planter drain. 'Specialty Plumbing Supplies' 100mm RWO (TIA 100/90PB) with planter box insert

—EXISTING SURFACE

DEPTH TO BOTTOM OF TRENCH (VARIES

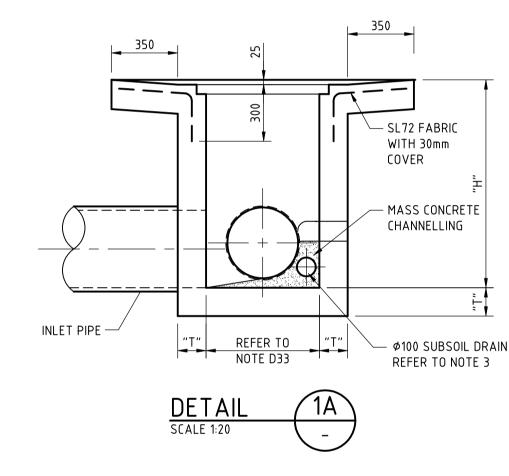
- FINISHED SURFACE

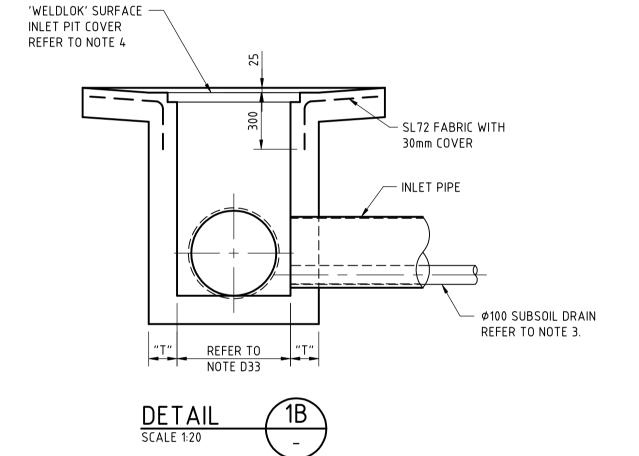
TYPICAL PIPE LAYING

ADJACENT TO FOOTINGS

REFER TO 150 350 NOTE D33

GRATED PIT PLAN





SAG INLET PIT NOTES:

20MPa AT 28 DAYS.

1. COMPRESSIVE STRENGTH OF CONCRETE TO BE A MINIMUM OF

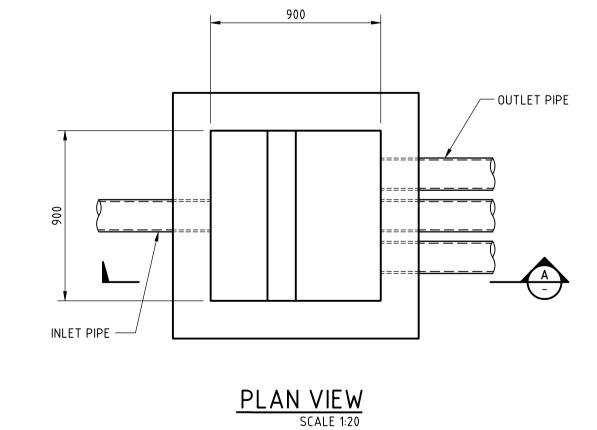
2. TOP OF BENCHING SHALL BE 1/2 OF OUTLET PIPE DIAMETER.

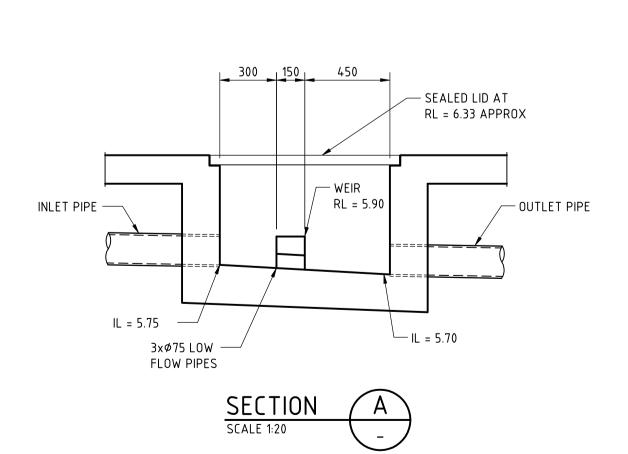
3. Ø100 SUBSOIL DRAINAGE PIPE 3m LONG WRAPPED IN FABRIC

4. PIT GRATE TO BE 'WELDLOK' OR APPROVED EQUIVALENT.

5. PROVIDE STEP IRONS WHERE PIT IS DEEPER THAN 1200

SOCK TO BE PROVIDED AT INVERT LEVEL EITHER SIDE OF INLET





DRAWING SCHEDULE

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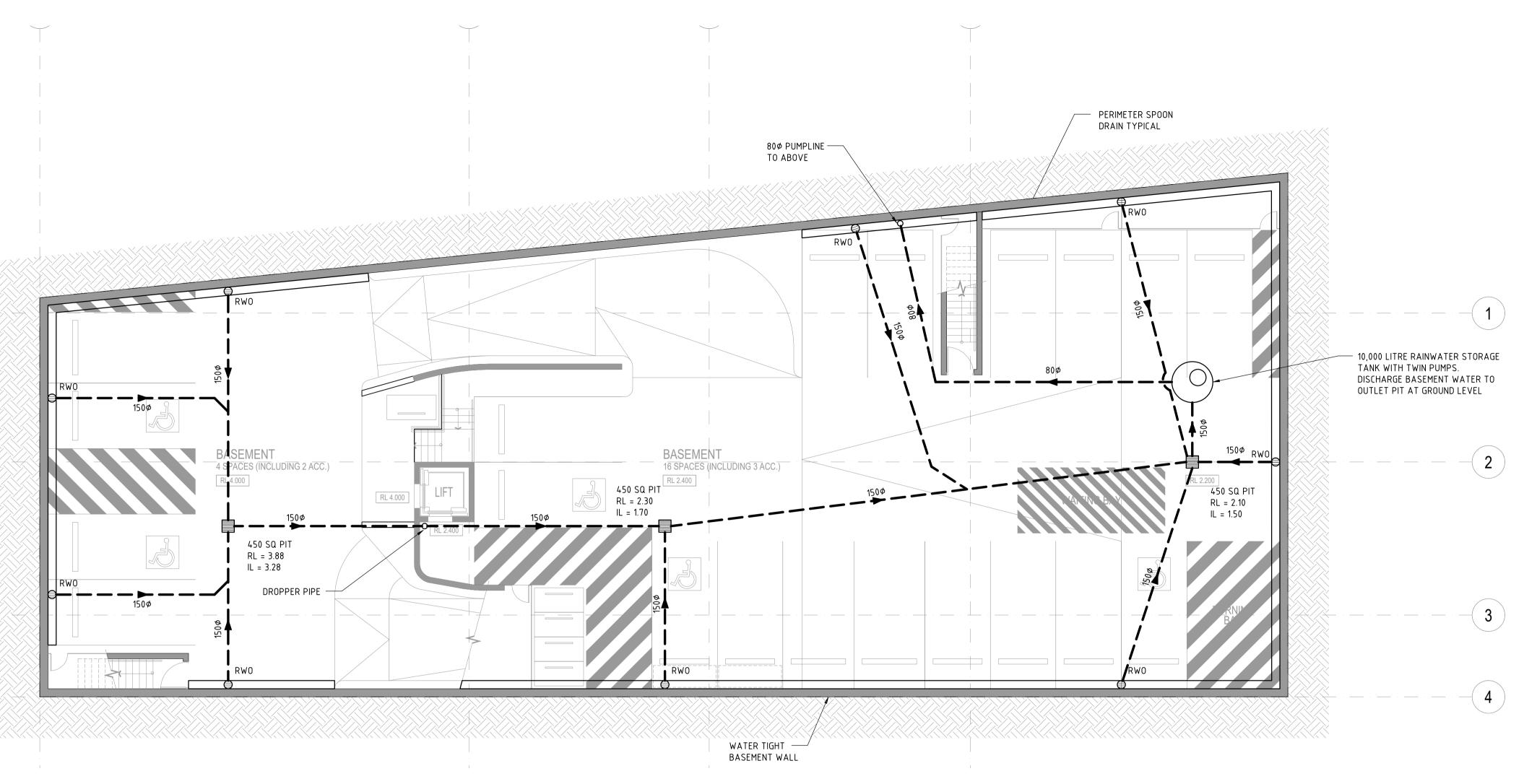
SW00 STORMWATER NOTES & DRAWING SCHEDULE SW01 BASEMENT LEVEL DRAINAGE CONCEPT PLAN SW02 GROUND FLOOR DRAINAGE CONCEPT PLAN SW03 SEDIMENT AND EROSION CONTROL PLAN SW04 SEDIMENT AND EROSION CONTROL DETAILS





							INTELLIGENT THINKING
			NOTE: This drawing must be read in conjunction	DDEL IMILIA DV	ARCHITECT: Crawford Architects	PROJECT: Shop Top Housing	DESIGNED: JD DATE: JUL 2020 DRAWN: RAL CHECKED: DW
			with ALL other drawings for this project	PRELIMINARY		349 Barrenjoey Road NEWPORT	220088
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P1 17.07.20	PRELIMINARY ISSUE	RAL	notes.	NOT FOR CONSTRUCTION	CLIENT: Summit Build Pty Ltd	TITLE: STORMWATER NOTES &	DRAWING: REVISION:
REV.No DATE	REVISION	BY	110103.			DRAWING SCHEDULE	SW00 P2
		<u>'</u>	<u>'</u>		·	© COPYRIGHT. DRAWINGS ISSUED UNDER LICENSE BY DEMLAKIAN CONSULTING ENGINEERS	





BASEMENT LEVEL DRAINAGE CONCEPT PLAN

ALL PIPES TO BE Ø150 UPVC @ 1% FALL, TYPICAL U.N.O.

SCALE 1:100

DENOTES STORMWATER PIPEDENOTES SUBSOIL DRAIN

DENOTES SUBSOIL DRAIN

150

DENOTES PIPE DIAMETER IN MM

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