








PODIUM LANDSCAPE PLAN


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Signed: AW **Sheet No: 46 of 61**

LEGEND

- | | | | |
|---|--|---|----------------------------|
|  | Timber decking |  | Planting |
|  | Sandstone unit paving w/ gravel edging |  | Indigenous garden planting |
|  | Two-tone ballast |  | Artificial turf |
|  | Concrete unit paving |  | Sandstone boulders |
|  | Sandstone blocks |  | Bean bags |
|  | Timber seating |  | Flexible furniture |
|  | Concrete wall |  | Wind mitigation screen |
|  | Corten wall | | |

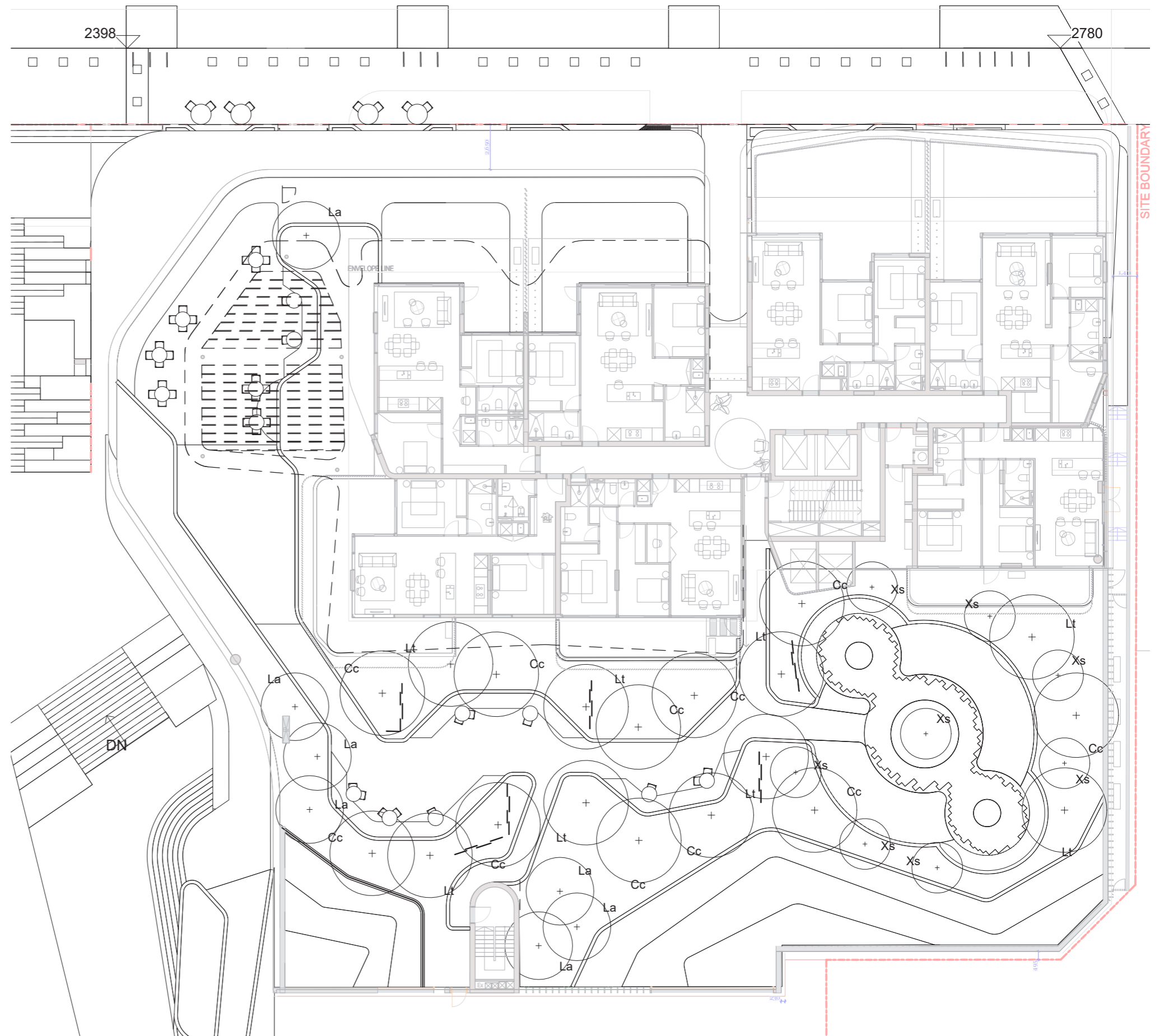


PODIUM TREE PLAN


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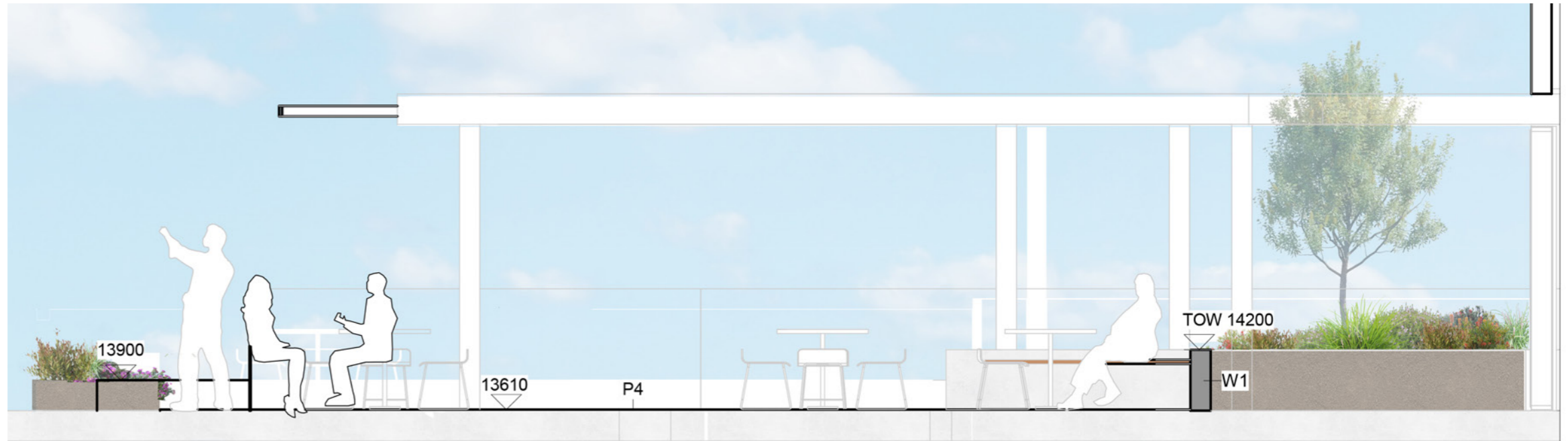
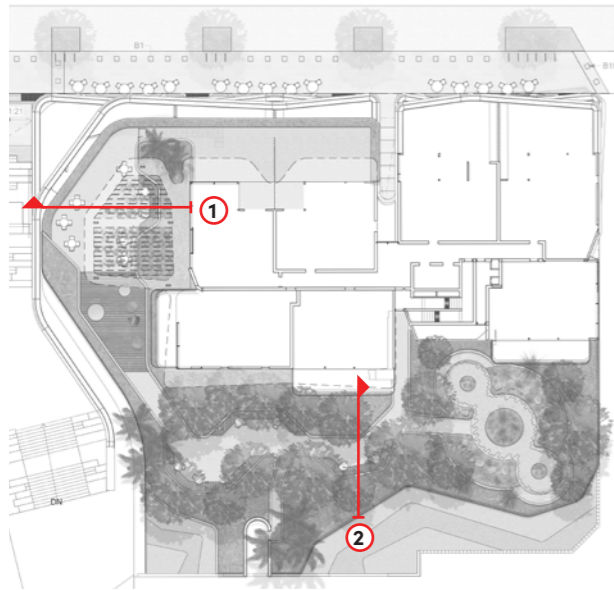
LEGEND

- Cc Callistemon citrinus
- Lt Leptospermum trinervium
- Xs Xanthorrhoea Sp.
- La Livistona australis



SECTION 1 + 2 PODIUM

1. FLEXIBLE GATHERING SPACE



2. OUTDOOR OFFICE



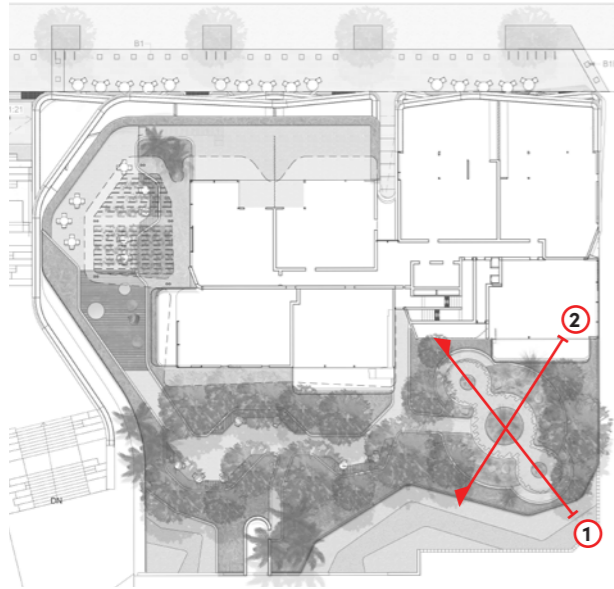

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0 0.5 1m

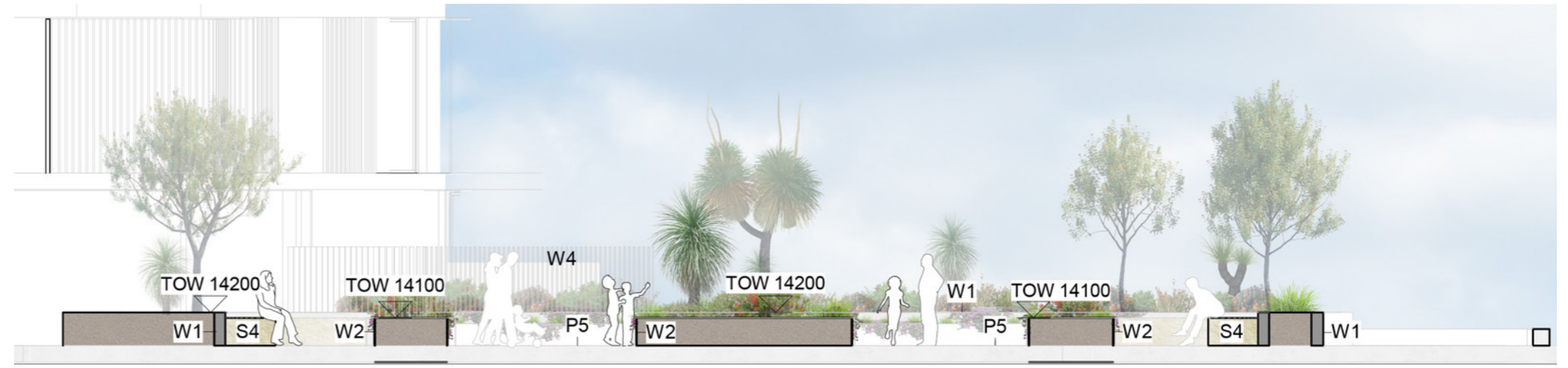
 SCALE - 1:50 @ A3

SECTION 3 + 4 PODIUM


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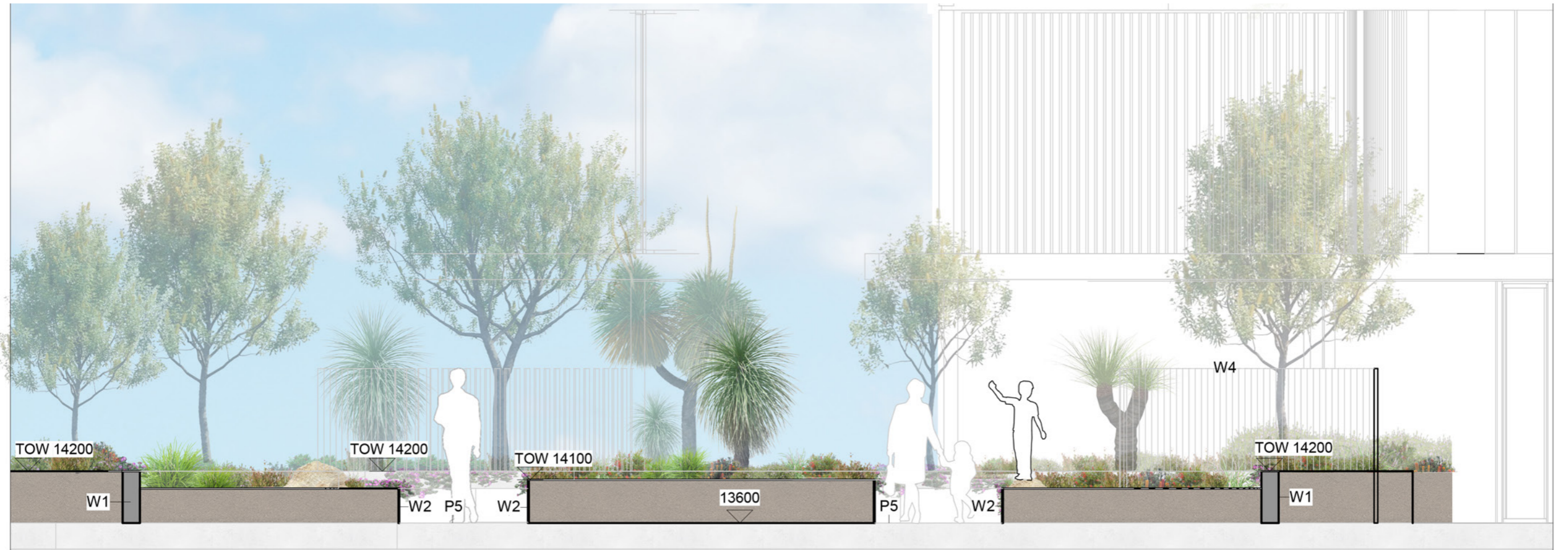


3. INDIGENOUS BUSHTUCKER GARDEN



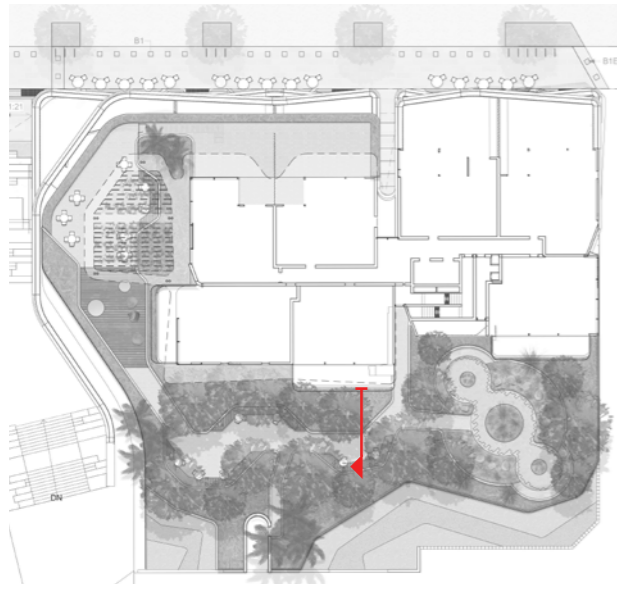
0 1 2m
 SCALE - 1:100 @ A3

4. INDIGENOUS BUSHTUCKER GARDEN



0 0.5 1m
 SCALE - 1:50 @ A3

SECTION 5




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5. PRIVATE OPEN SPACE



0 0.5 1m

 SCALE - 1:50 @ A3

ROOFTOP LANDSCAPE PLAN








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and Environment**

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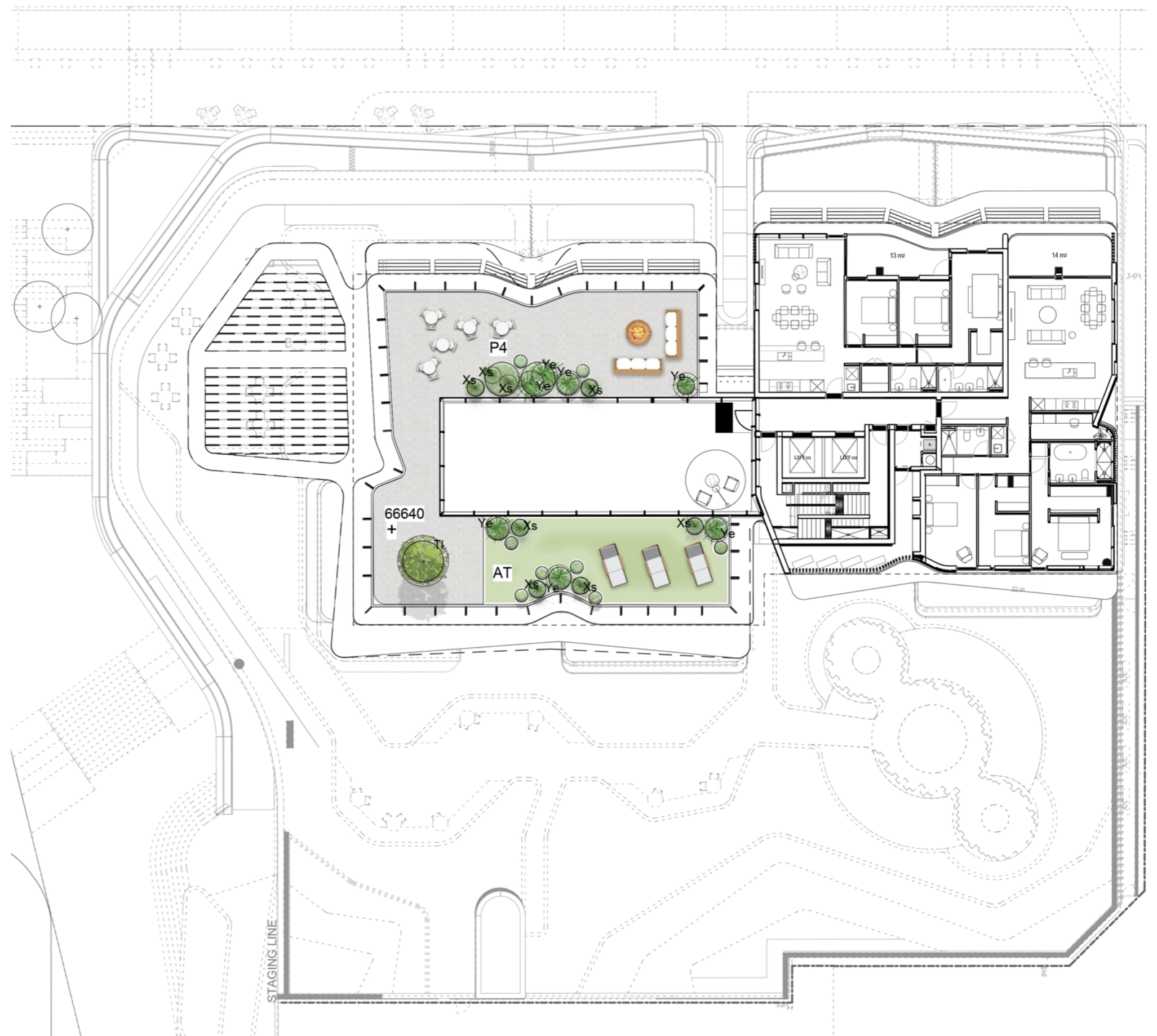
Granted on: 31 March 2022

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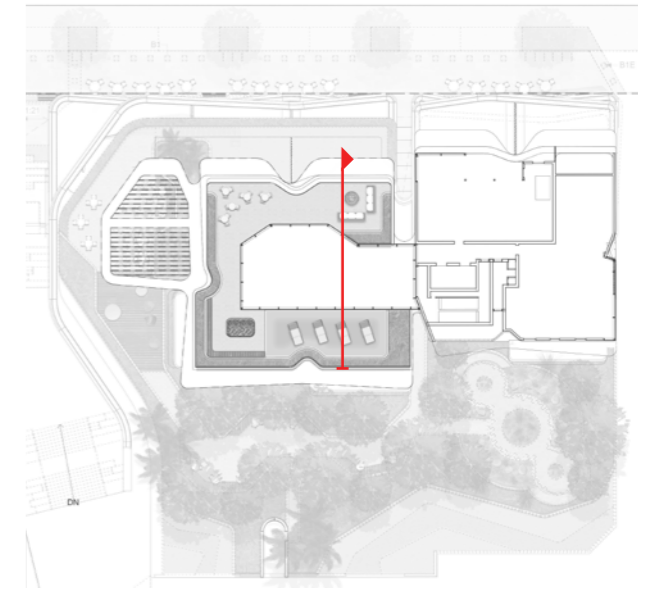
LEGEND

- | | |
|--|--|
| P4 Concrete paving |  Flexible furniture |
| AT Artificial turf |  Lounge chairs |
|  Pot plants |  Fire pit |
| TI <i>Tristaniopsis laurina</i> |  Sunbathing bed |
| Ye <i>Yucca elaphantipes</i> | |
| Xs <i>Xanthorrhoea</i> spp. | |

NOTE: Refer to planting palette for species



SECTION ROOFTOP



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PLANTING PALETTE

CODE	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	POT SIZE	DENSITY	QUANTITY
GROUND FLOOR							
TREES							
Ca	Cyathea australis	Rough-tree Fern	6m	5m	45L	As shown	4
Cd	Cyathea dealbata	Silver Fern	5m	3m	45L	As shown	2
UNDERSTOREY MIX 1 - GULLY							
	Philodendron 'Rojo Congo'	Rojo Congo	0.65m	0.8m	300mm	500mm c	-
	Asplenium nidus	Bird's Nest Fern	0.6-1m	1.5m	300mm	500mm c	-
	Sticherus flabellatus	Umbrella Fern	0.8m	1.5m	300mm	500mm c	-
	Doodia aspera	Rasp Fern	0.4m	0.6m	300mm	500mm c	-
	Commelina cyanea	Scurvy Weed	0.3m	1m	150mm	300mm c	-
	Blechnum cartilagineum	Soft water fern	1.5m	1.5m	300mm	1m	-
UNDERSTOREY MIX 2 - GENERAL PLANTING							
	Patersonia sericea	Native Iris	0.4m	0.3m	150mm	500mm c	-
	Lomandra longifolia	Mat Rush	1m	0.6m	150mm	500mm c	-
	Scaevola ramosissima	Purple Fan Flower	0.4m	0.5m	150mm	500mm c	-
	Ficinea nodosa	Knobby club-rush	1m	0.6m	300mm	500mm c	-
	Poa poiformis	Coast tussock-grass	0.5m	0.5m	150mm	500mm c	-
	Hibbertia scandens	Snake Vine	0.5m	1-5m	150mm	500mm c	-
	Philodendron xanadu	Xanadu	1m	1m	300mm	500mm c	-
THROUGH SITE LINK							
TREES							
La	Livistona australis	Cabbage Tree Palm	20m	3-5m	6-9m	As shown	16
Af	Angophora floribunda	Rough-barked Apple	20m	10m	400L	As shown	2
Es	Eucalyptus spp.		15m	5m	400L	As shown	4
UNDERSTOREY							
	Prostanthera ovalifolia	Mint Bush	1.5	1.5	150mm	500mm c	-
	Lomandra longifolia	Mat Rush	1m	0.6m	150mm	500mm c	-
	Banksia spinulosa	Birthday Candles	1m	1m	150mm	500mm c	-
	Ficinea nodosa	Knobby club-rush	1m	0.6m	300mm	500mm c	-
	Hardenbergia violaceae 'Meema'	Meema	0.5	2m	150mm	500mm c	-
	Rhagodia spinescens	Spiney Saltbush	0.5-1m	1.5m	150mm	500mm c	-
	Scaevola ramosissima	Purple Fan Flower	0.4m	0.5m	150mm	500mm c	-
	Doryanthes excelsa	Gynea Lily	2-4m	2-3m	300mm	1m c	-
	Carpobrotus glaucescens	Pigs Face	0.2m	2m	150mm	500mm c	-

NOTE: planting palettes are indicative and may change through the detailed design phase and availability at time of procurement



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TREES



Cyathea australis



Livistona australis

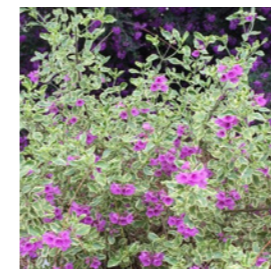


Angophora floribunda



Eucalyptus spp.

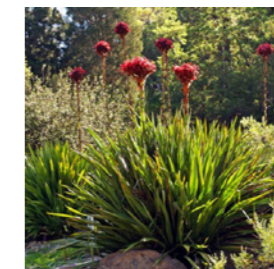
SHRUBS



Prostanthera ovalifolia



Philodendron 'Rojo Congo'



Doryanthes excelsa



Lomandra longifolia



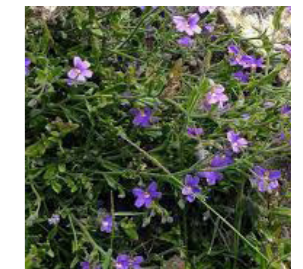
Banksia spinulosa



Isolepis nodosa



Rhagodia spinescens

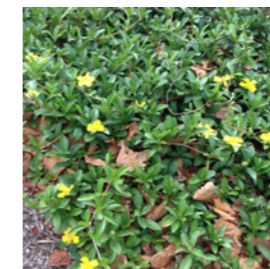


Scaevola ramosissima

CASCADING GROUNDCOVERS



Carpobrotus glaucescens



Hibbertia scandens

PLANTING PALETTE



CODE	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	POT SIZE	DENSITY	QUANTITY
PODIUM LEVEL							
TREES							
La	Livistona australis	Cabbage Tree Palm	20m	3-5m	6-9m	As shown	7
Lt	Leptospermum trinervium	Flaky-barked Tea-tree	4m	2m	400L	As shown	8
Xs	Xanthorrhoea spp.	Grass Tree	2-4m	1.5m	400L	As shown	8
Cc	Callistemon citrinus	Crimson Bottlebrush	3m	3m	100L	As shown	11
UNDERSTOREY- MIX 1							
As	Acmena smithii	Lilly Pilly	3m	1.5m	100L	1000mm c	-
	Carpobrotus glaucescens	Pigs Face	0.2m	2m	150mm	500mm c	-
	Lomandra longifolia	Mat Rush	0.4 - 1 m	0.6	150mm	500mm c	-
	Ficinia nodosa	Knobby club-rush	1m	0.6m	300mm	500mm c	-
	Rhagodia spinescens	Salt bush	0.5-1m	1.5m	150mm	500mm c	-
	Prostanthera ovalifolia	Mint Bush	1.5m	1.5m	150mm	1000mm c	-
	Grevillea buxifolia	Grey Spider Flower	0.5-2m	2m	150mm	1000mm c	-
	Banksia spinulosa	Birthday Candles	1	1	150mm	500mm c	-
	Acmena smithii 'minor'	Dwarf Lily Pilly	0.4-1.5m	0.5-2m	150mm	500mm c	-
	Dianella caerulea	Blue-flax Lily	1m	0.5 -2m	150mm	300mm c	-
UNDERSTOREY - MIX 2 - BUSH TUCKER							
	Austromyrtus dulcis	Midgen Berries	0.5-1m	0.5-1m	300mm	500mm c	-
	Doryanthes excelsa	GyMEA Lily	2-4m	2-3m	300mm	1000mm c	-
	Acacia suaveolens	Sweet Wattle	1-2m	1-4m	300mm	1000mm c	-
	Hardenbergia violacea	Native Sarsparilla vine	0.5m	2m	150mm	500mm c	-
	Banksia spinulosa	Birthday Candles	1.5m	2.5m	150mm	500mm c	-
	Pennisetum alopecuroides 'Pennstripe'	Fountain Grass	0.45m	0.45m	150mm	300mm c	-
	Prostanthera rotundifolia	Round-leaved Mintbush	0.5 -2m	1.5-2.5m	300mm	500mm c	-
	Enchylaena tomentosa	Ruby Saltbush	0.4-1m	0.5-1m	150mm	500mm c	-
	Ficinia nodosa	Knobby club-rush	1m	0.6m	300mm	500mm c	-
	Melaleuca viminalis 'Little John'	Weeping Bottle brush	0.6-1.2m	0.6-0.9m	150mm	500mm c	-
	Alpinia caerulea	Native Ginger	2m	1-2m	300mm	500mm c	-
	Hibbertia scandens	Snake Vine	0.5m	1-5m	150mm	500mm c	-
	Carpobrotus glaucescens	Pigs Face	0.2m	2m	150mm	500mm c	-
ROOFTOP							
TREES							
Tl	Tristanopsis laurina	Water Gum	7m	4m	200mm	As shown	1
Ye	Yucca elaphantipes	Spineless Yucca	2-2.5m	1.5m	45L	As shown	7
Xs	Xanthorrhoea spp.	Grass Tree	0.5-1.5	1m	45L	As shown	8
UNDERSTOREY							
	Philodendron xanadu	Xanadu	1m	1m	300mm	500 centres	-
	Hymeosporum flavum 'Gold Nugget'	Native Frangipani	0.5-0.75m	0.5-0.75m	150mm	500 centres	-
	Casuarina glauca 'Cousin It'	She Oak	0.1-0.2m	1-2m	150mm	500 centres	-
	Carpobrotus glaucescens	Pigs Face	0.2m	2m	150mm	500 centres	-

NOTE: planting palettes are indicative and may change though the detailed design phase and availability at time of procurement

TOTAL PROPOSED TREES: 78
TOTAL PROPOSED PLANTING: 872m²

TREES



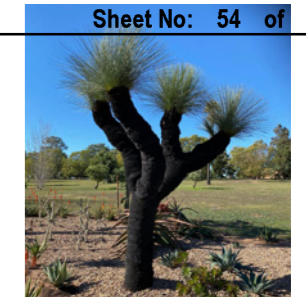
Tristanopsis laurina



Livistona australis



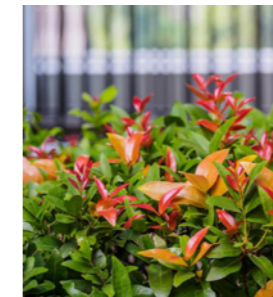
Leptospermum trinervium



Xanthorrhoea spp.



Callistemon citrinus



Acmena smithii

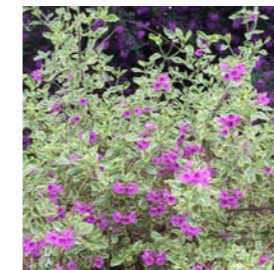


Angophora floribunda



Eucalyptus spp.

SHRUBS



Prostanthera ovalifolia



Acacia suaveolens



Pennisetum alopecuroides



Lomandra longifolia



Banksia spinulosa



Isolepis nodosa



Rhagodia spinescens

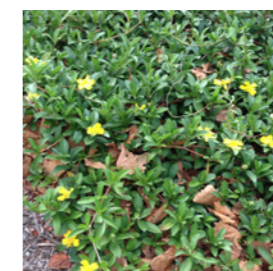


Melaleuca viminalis

CASCADING GROUNDCOVERS



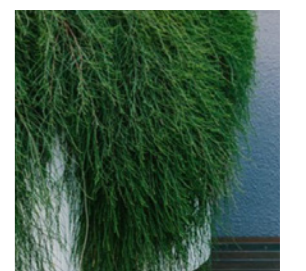
Carpobrotus glaucescens



Hibbertia scandens



Hardenbergia violacea



Casuarina glauca 'Cousin It'

PLANTING CHARACTER



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MATERIAL PALETTE

PAVING



CONCRETE UNIT PAVING (P4)



CONCRETE UNIT PAVING - SANDSTONE COLOUR (P2)



FEATURE SANDSTONE PAVEMENT W/ GRAVEL EDGE (P5)



GRAVEL EDGING (G1)



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FURNITURE & FIXTURES



MOVABLE SEATING



POT PLANT GREENING



BIKE RACKS (BR)

WALLS



CONCRETE RETAINING WALLS (W1)



SANDSTONE BLEACHER SEATING (BS1)



ROOFTOP LOUNGE & FIREPIT



SANDSTONE BOLLARDS (B1)



TIMBER & CONCRETE BLEACHER SEATS (BS2)



CORTEN STEEL RETAINING WALL (W2)

CENTRAL COAST QUARTER - NORTH TOWER

26-30 MANN STREET GOSFORD
INTERNAL CIVIL WORKS




DRAWING SCHEDULE

DWG No.	DRAWING TITLE
C1.1	COVER SHEET
C2.1	CONCEPT SOIL & WATER CYCLE MANAGEMENT PLAN
C2.2	SOIL & WATER CYCLE MANAGEMENT DETAILS
C4.1	STORMWATER MANAGEMENT & LEVELS PLAN - GROUND
C4.2	STORMWATER MANAGEMENT & LEVELS PLAN - LEVEL 4



APPROXIMATE
LOCATION OF SITE

LOCALITY PLAN





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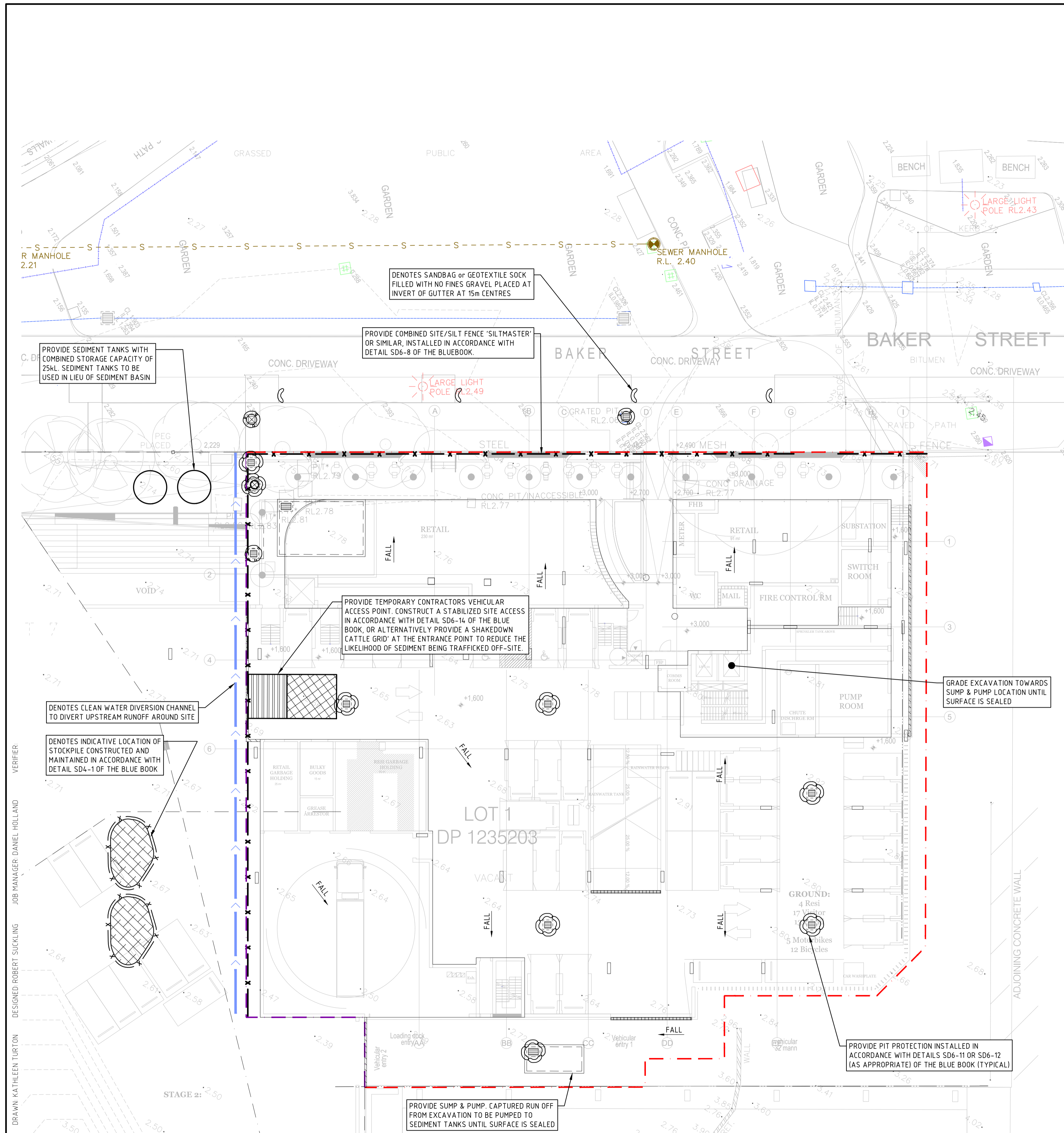
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NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT	PROJECT	DRAWING TITLE	JOB NUMBER				
A	DEVELOPMENT APPLICATION		KT		DH	22.03.21		DKO ARCHITECTURE	 <p>Central Coast Suite 4, 257-259 Central Coast Hwy, Erina NSW 2250 Ph (02) 4365 1688 Fax (02) 4367 6555 Email centralcoast@northrop.com.au ABN 81 094 433 100</p>	CENTRAL COAST QUARTER NORTH TOWER 26-30 MANN ST GOSFORD	INTERNAL CIVIL WORKS COVER SHEET	SY202243		
										<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">DRAWING NUMBER</th> <th style="width: 50%;">REVISION</th> </tr> <tr> <td style="text-align: center;">C1.1</td> <td style="text-align: center;">A</td> </tr> </table>	DRAWING NUMBER	REVISION	C1.1	A
DRAWING NUMBER	REVISION													
C1.1	A													
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED		THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD.		DRAWING SHEET SIZE = A1				

DRAWN: KATHLEEN TURTON DESIGNED: ROBERT SUCKLING JOB MANAGER: DANIEL HOLLAND VERIFIER:



SEDIMENT BASIN/TANKS SIZING CALCULATION

THE SITE IS LOCATED WITHIN THE KILLINGWORTH SOIL LANDSCAPE AND PRIMARILY CONSISTS OF SANDY CLAY & SILTY SANDS, WHICH HAS THE FOLLOWING PROPERTIES (IN ACCORDANCE WITH TABLE C17 OF THE 'BLUE BOOK'):

SITE PARAMETERS	
CONSTRAINT	VALUE
SEDIMENT TYPE	D
SOIL HYDROLOGY GROUP	B
K = SOIL ERODIBILITY (K-FACTOR)	0.059
R = RAINFALL ERODIBILITY (R-FACTOR)	3900
S = 2 YEAR, 6 HOUR STORM INTENSITY	13.4 mm/hr (GOSFORD)
LS = SLOPE LENGTH/GRADIENT	0.17 (50m SLOPE @ 1% GRADE)
P = EROSION CONTROL PRACTICE (P-FACTOR)	1.3 (TYPICAL)
C = GROUND COVER (C-FACTOR)	1.0 (TYPICAL FOR STRIPPED SITE)
SOIL LOSS (RUSLE METHOD) (Tonnes/ha/yr)	50.8
EROSION HAZARD (TABLE 4.2 BLUE BOOK)	VERY LOW NO BASIN/TANKS REQUIRED

NOTE: SEDIMENT BASIN IS NOT REQUIRED, HOWEVER SEDIMENT TANK OF MINIMUM SIZE WILL BE PROVIDED FOR EXCAVATION AND EARTHWORKS.

SEDIMENT BASIN/TANKS SIZING		
CONSTRAINT	VALUE	UNITS
CV = VOLUMETRIC RUNOFF COEFFICIENT	0.25	
R = 5 DAY, 75 TH PERCENTILE RAINFALL	27.9	mm
A = CATCHMENT AREA	0.33	ha
SETTLING ZONE VOLUME (10x CVxRxA)	23	m ³
SOIL LOSS (CALC ABOVE)	39	m ³ /ha/yr
DISTURBED CATCHMENT AREA	0.33	ha
SEDIMENT STORAGE VOLUME (0.17xSOIL LOSSxA2)	2.2	m ³
TOTAL BASIN/TANKS VOLUME REQUIRED	25	m ³

SEDIMENT BASIN/TANKS MANAGEMENT NOTES

- PRIOR TO ANY FORECAST WEATHER EVENT, LIKELY TO RESULT IN SEDIMENT LOADING RUNOFF ON THE SITE, ANY EXISTING DETENTION BASINS/TANKS/TRAPS SHALL BE DEWATERED TO PROVIDE SUFFICIENT CAPACITY TO CAPTURE SEDIMENT LOADING WATER FROM THE SITE.
- ANY SEDIMENT LOADING WATER CAPTURED ON-SITE MUST BE TREATED TO ENSURE IT WILL ACHIEVE COUNCIL'S WATER QUALITY OBJECTIVES PRIOR TO ITS RELEASE FROM SITE. A SAMPLE OF THE RELEASED TREATED WATER MUST BE KEPT ON-SITE IN A CLEAR CONTAINER WITH THE SAMPLE DATE RECORDED.
- NO ALUMINIUM BASED PRODUCTS MAY BE USED TO TREAT TURBID WATER (FLOCCULATING/COAGULANTS) ON-SITE WITHOUT THE PRIOR WRITTEN PERMISSION FROM AN APPROPRIATE COUNCIL OFFICER. THE APPLICANT MUST HAVE DEMONSTRATED ABILITY TO USE SUCH PRODUCTS CORRECTLY AND WITHOUT ENVIRONMENTAL HARM PRIOR TO ANY APPROVAL.
- THE CHEMICAL/AGENT (FLOCCULATING/COAGULANTS) USED IN TYPE D AND TYPE F BASINS/TANKS TO TREAT TURBID WATER CAPTURED IN THE BASIN/TANKS MUST BE APPLIED IN CONCENTRATIONS SUFFICIENT TO ACHIEVE COUNCIL'S WATER QUALITY OBJECTIVES (TSS < 50mg/L, TURBIDITY < 60 NTU, 6.5 < pH < 8.5) WITHIN THE 5-DAY RAINFALL DEPTH USED TO CALCULATE THE CAPACITY OF THE BASIN/TANKS, AFTER A RAINFALL EVENT.
- ALL MANUFACTURERS INSTRUCTIONS MUST BE FOLLOWED FOR THE USE OF ANY CHEMICALS/AGENTS USED ON-SITE, EXCEPT WHERE APPROVED BY THE RESPONSIBLE PERSON OR AN APPROPRIATE COUNCIL OFFICER.
- SUFFICIENT QUANTITIES OF CHEMICALS/AGENTS TO TREAT TURBID WATER (FLOCCULATING/COAGULANTS) MUST BE PLACED SUCH THAT WATER ENTERING THE BASIN/TANKS/SEDIMENT TRAP MIXES WITH THE CHEMICALS/AGENTS AND IS CARRIED INTO THE BASIN/TANKS/TRAP.
- ANY BASIN/TANKS MUST BE DEWATERED AS SOON AS PRACTICAL, ONCE WATER CAPTURED IN THE BASIN/TANKS ACHIEVES COUNCIL'S WATER QUALITY OBJECTIVES.
- INSPECT THE SEDIMENT BASIN/TANKS AFTER EACH RAINFALL EVENT AND/OR WEEKLY. ENSURE THAT ALL SEDIMENT IS REMOVED ONCE THE SEDIMENT STORAGE ZONE IS FULL. ENSURE THAT OUTLET AND EMERGENCY SPILLWAY WORKS ARE MAINTAINED IN A FULLY OPERATIONAL CONDITION AT ALL TIMES.

CONCEPT SOIL & WATER MANAGEMENT NOTES

- ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH RELEVANT ORDINANCES AND REGULATIONS; NOTE IN PARTICULAR THE REQUIREMENTS OF LANDCOMS MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION (THE 'BLUE BOOK'). THIS SOIL AND WATER MANAGEMENT PLAN DETAILS THE ACTIONS TO BE TAKEN FOR THE MANAGEMENT AND DEWATERING OF STORMWATER DURING CONSTRUCTION OF THE PROPOSED BUILDING.
- INSTALL SEDIMENT PROTECTION FILTERS ON ALL NEW AND EXISTING STORMWATER INLET PITS IN ACCORDANCE WITH EITHER THE MESH AND GRAVEL INLET FILTER DETAIL SD6-11 OR THE GEOTEXTILE INLET FILTER DETAIL SD6-12 OF THE 'BLUE BOOK'.
- ESTABLISH ALL REQUIRED SEDIMENT FENCES IN ACCORDANCE WITH DETAIL SD6-8 OF THE 'BLUE BOOK'.
- INSTALL SEDIMENT FENCING AROUND INDIVIDUAL BUILDING ZONES/AREAS AS REQUIRED AND AS DIRECTED BY THE SUPERINTENDENT.
- ALL TRENCHES INCLUDING ALL SERVICE TRENCHES AND SWALE EXCAVATION SHALL BE SIDE-CAST TO THE HIGH SIDE AND CLOSED AT THE END OF EACH DAY'S WORK.
- THE CONTRACTOR SHALL ENSURE THAT ALL VEGETATION (TREE, SHRUB & GROUND COVER) WHICH IS TO BE RETAINED SHALL BE PROTECTED DURING THE DURATION OF CONSTRUCTION. REFER ARCHITECT'S PLANS FOR TREES TO BE KEPT.
- ALL VEGETATION TO BE REMOVED SHALL BE MULCHED ONSITE AND SPREAD/STOCKPILED AS DIRECTED BY THE SUPERINTENDENT.
- STRIP TOPSOIL IN AREAS DESIGNATED FOR STRIPPING AND STOCKPILE FOR RE-USE AS REQUIRED. ANY SURPLUS MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH EPA GUIDELINES.
- CONSTRUCT AND MAINTAIN ALL MATERIAL STOCKPILES IN ACCORDANCE WITH DETAIL SD4-1 OF THE 'BLUE BOOK' (INCLUDING CUT-OFF SWALES TO THE HIGH SIDE AND SEDIMENT FENCES TO THE LOW SIDE).
- ENSURE STOCKPILES DO NOT EXCEED 2.0m HIGH. PROVIDE WIND AND RAIN EROSION PROTECTION AS REQUIRED IN ACCORDANCE WITH THE 'BLUE BOOK'.
- PROVIDE WATER TRUCKS OR SPRINKLER DEVICES DURING CONSTRUCTION AS REQUIRED TO SUPPRESS DUST.
- ONCE CUT/FILL OPERATIONS HAVE BEEN FINALIZED ALL DISTURBED AREAS THAT ARE NOT BEING WORKED ON SHALL BE RE-VEGETATED AS SOON AS IS PRACTICAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING A DETAILED WRITTEN RECORD OF ALL EROSION & SEDIMENT CONTROLS ON-SITE DURING THE CONSTRUCTION PERIOD. THIS RECORD SHALL BE UPDATED ON A DAILY BASIS & SHALL CONTAIN DETAILS ON THE CONDITION OF CONTROLS AND ANY / ALL MAINTENANCE, CLEANING & BREACHES. THIS RECORD SHALL BE KEPT ON-SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE FOR INSPECTION BY THE PRINCIPAL CERTIFYING AUTHORITY AND THE SUPERINTENDENT DURING NORMAL WORKING HOURS.
- GROUNDWATER SEEPAGE RATES AND QUALITY TO BE MONITORED AND TREATED IF REQUIRED DURING CONSTRUCTION IN ACCORDANCE WITH REQUIREMENTS OF SUPERVISING GEOTECHNICAL ENGINEER.

LEGEND

- DENOTES SITE BOUNDARY LINE
- DENOTES SUBDIVISION BOUNDARY LINE
- DENOTES BOUNDARY LINE
- DENOTES COMBINED SITE/SILT FENCE 'SILTMASTER' OR SIMILAR, INSTALLED IN ACCORDANCE WITH DETAIL SD6-8 OF THE BLUEBOOK.
- DENOTES TEMPORARY CONTRACTORS VEHICULAR ACCESS POINT. CONSTRUCT A STABILIZED SITE ACCESS IN ACCORDANCE WITH DETAIL SD6-14 OF THE BLUE BOOK OR PROVIDE A SHAKEDOWN CATTLE GRID AT ENTRANCE POINT TO REDUCE LIKELIHOOD OF SEDIMENT BEING TRAFFICKED OFF-SITE
- DENOTES GEOTEXTILE INLET FILTER INSTALLED IN ACCORDANCE WITH DETAIL SD6-12 OF THE BLUE BOOK
- INDICATES MESH & GRAVEL INLET FILTER INSTALLED IN ACCORDANCE WITH DETAILS SD6-11 OF THE BLUE BOOK
- DENOTES SANDBAG or GEOTEXTILE SOCK FILLED WITH NO FINES GRAVEL PLACED IN INVERT OF GUTTER
- DENOTES INDICATIVE LOCATION OF STOCKPILE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH DETAIL SD4-1 OF THE BLUE BOOK
- DENOTES CLEAN WATER CUT-OFF SWALE

THE CONTRACTOR SHALL ENSURE COUNCIL ASSETS AND THE UTILITIES ARE PROTECTED AT ALL TIMES. ANY AND ALL DAMAGES TO COUNCIL ASSETS AND/OR UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SPECIFICATION OF COUNCIL AND THE UTILITIES AUTHORITY AND AT NO COST TO THE PRINCIPAL OR NORTHPROP CONSULTING ENGINEERS.

THIS SOIL AND WATER MANAGEMENT PLAN HAS BEEN PREPARED TO MANAGE STORMWATER RUNOFF DERIVED ONSITE DURING CONSTRUCTION. GROUND WATER MANAGEMENT IS TO BE BY OTHERS.



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Approved Application No: SSD 23588910

Granted on: 31 March 2022

Signed: AW Sheet No: 58 of 61

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT
A	DEVELOPMENT APPLICATION	KT		DH	22.03.21	
B	DEVELOPMENT APPLICATION	KT		DH	26.03.21	

ARCHITECT: **DKO ARCHITECTURE**

CLIENT: **StHilliers**

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CLIENT: **StHilliers**

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PLANS 1:200 @ A1

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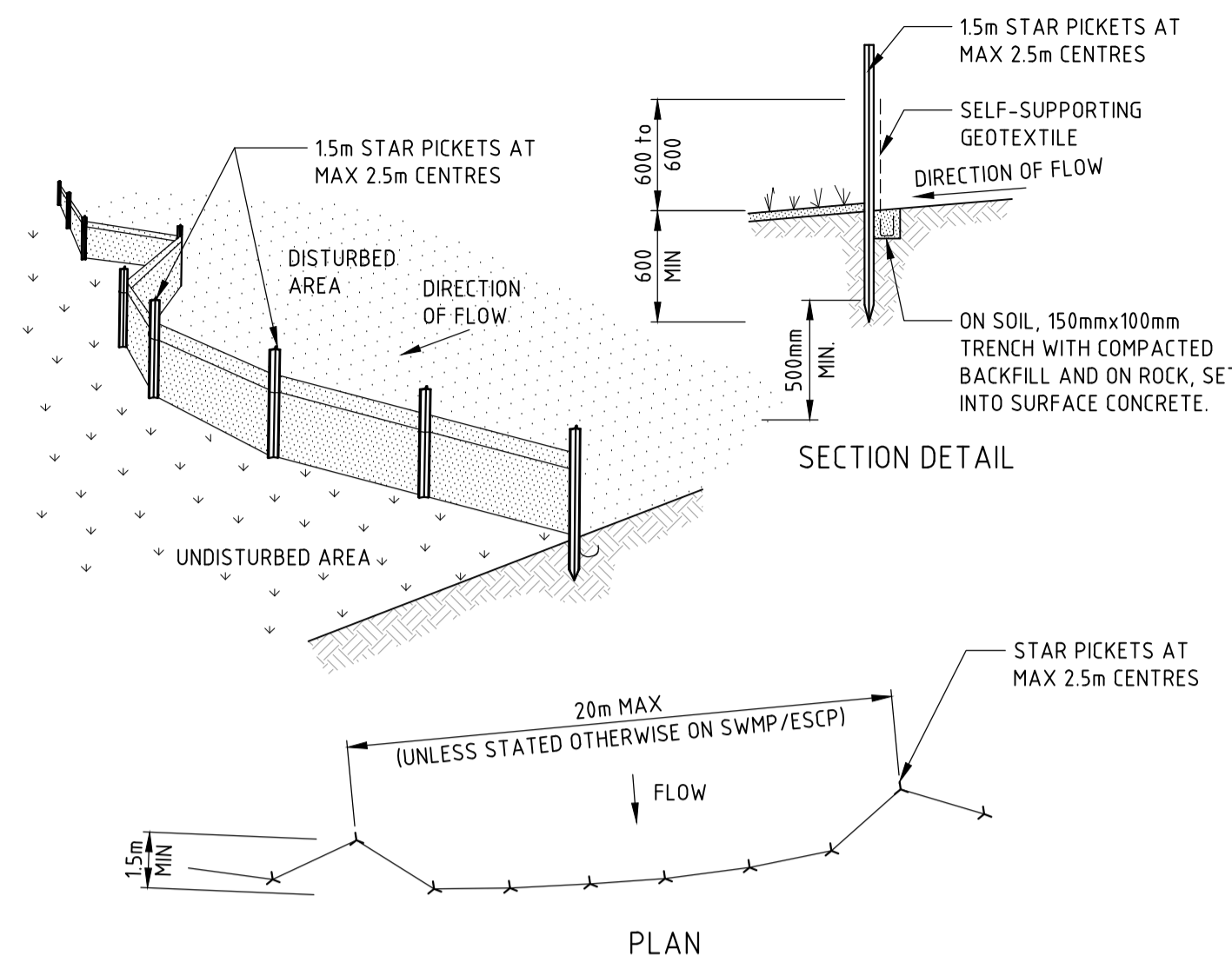
PROJECT: **CENTRAL COAST QUARTER NORTH TOWER 26-30 MANN ST GOSFORD**

DRAWING TITLE: **INTERNAL CIVIL WORKS CONCEPT SOIL & WATER CYCLE MANAGEMENT PLAN**

JOB NUMBER: **SY202243**

DRAWING NUMBER: **C2.1** REVISION: **B**

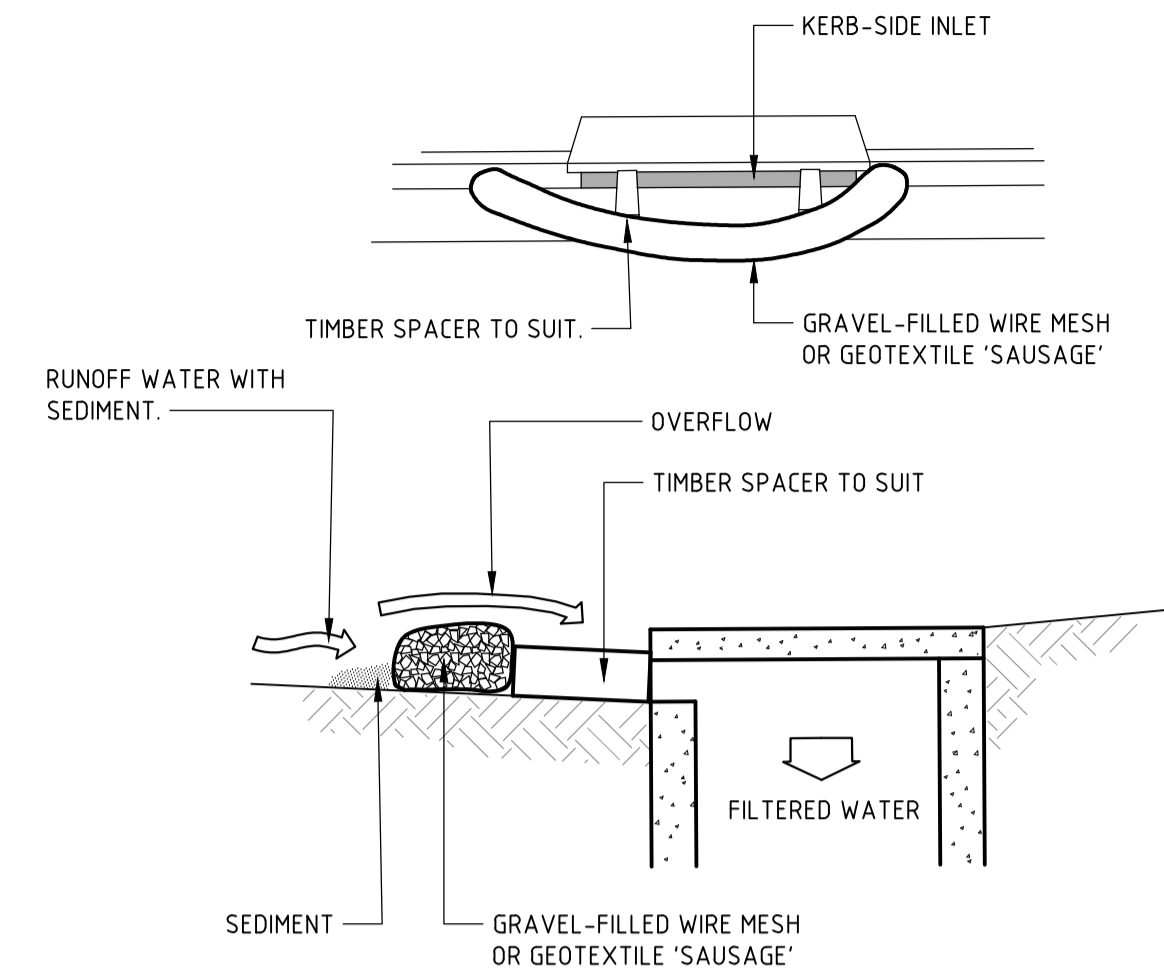
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CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 15 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE (SD 6-8)

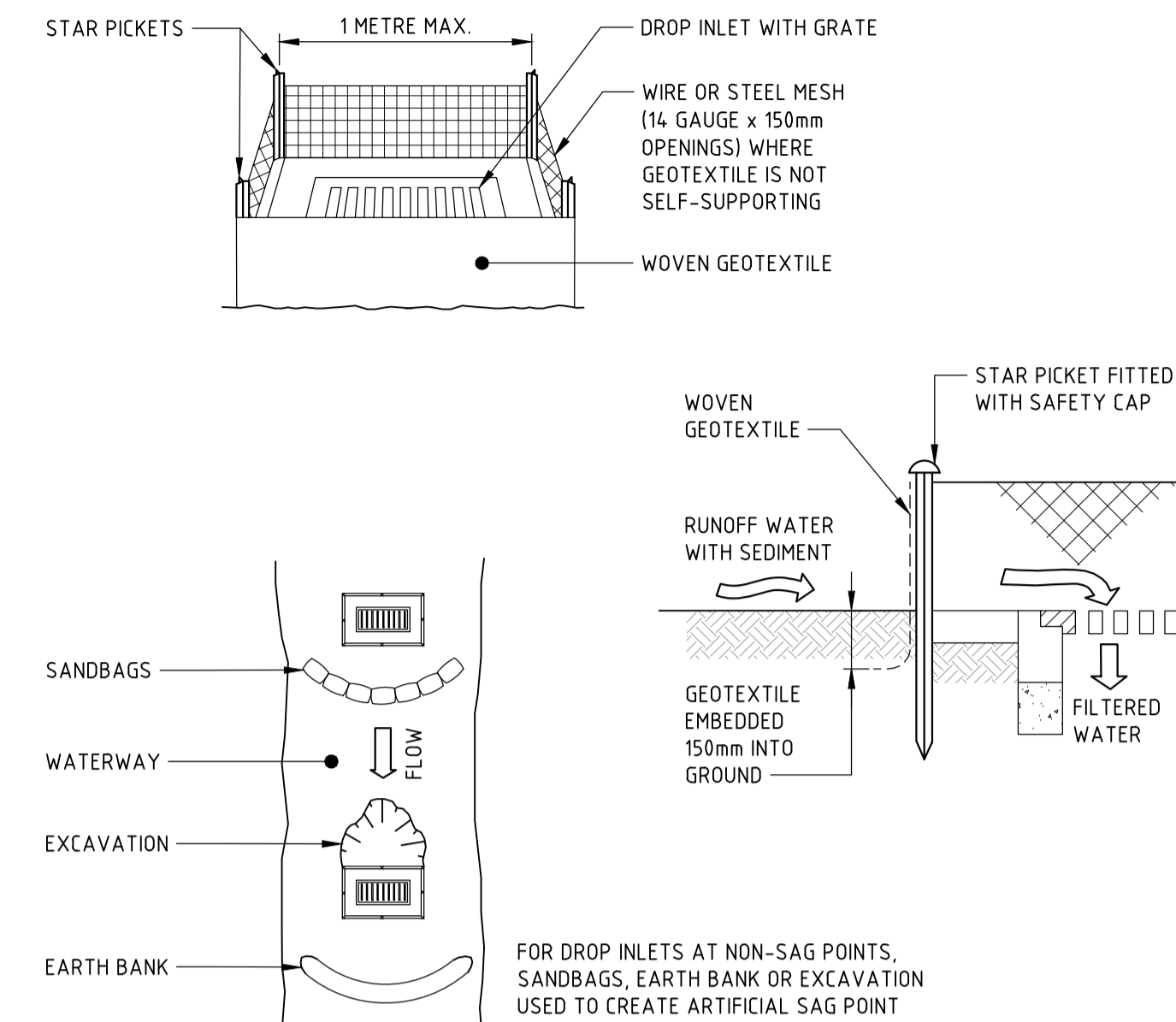


NOTE: THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN APPROVED SWMP/ESCP.

CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

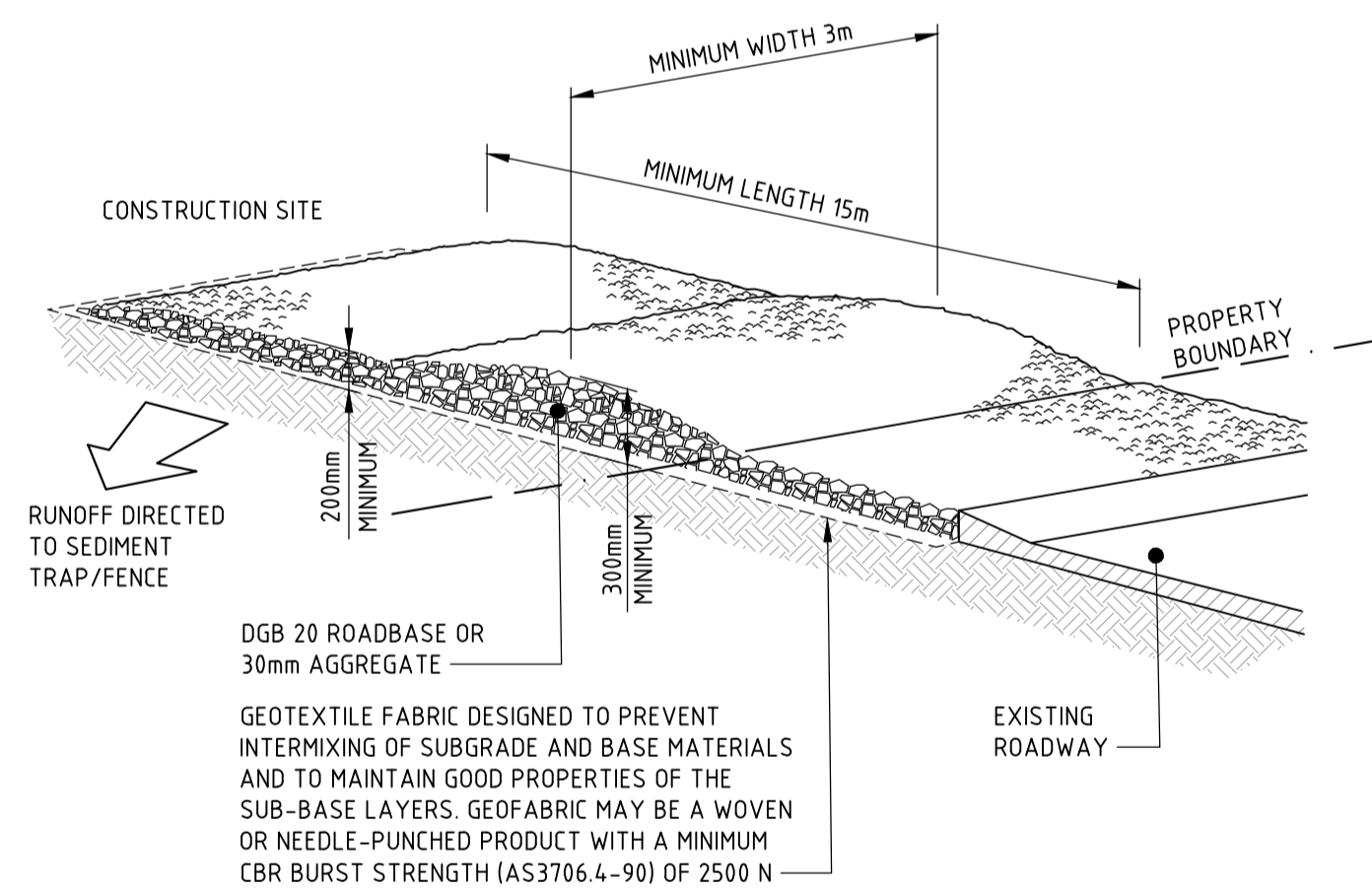
MESH AND GRAVEL INLET FILTER (SD 6-11)



CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

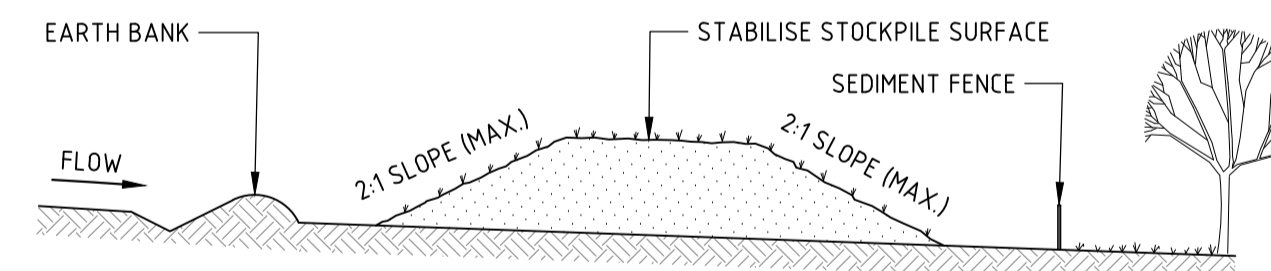
GEOTEXTILE INLET FILTER (SD 6-12)



CONSTRUCTION NOTES

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

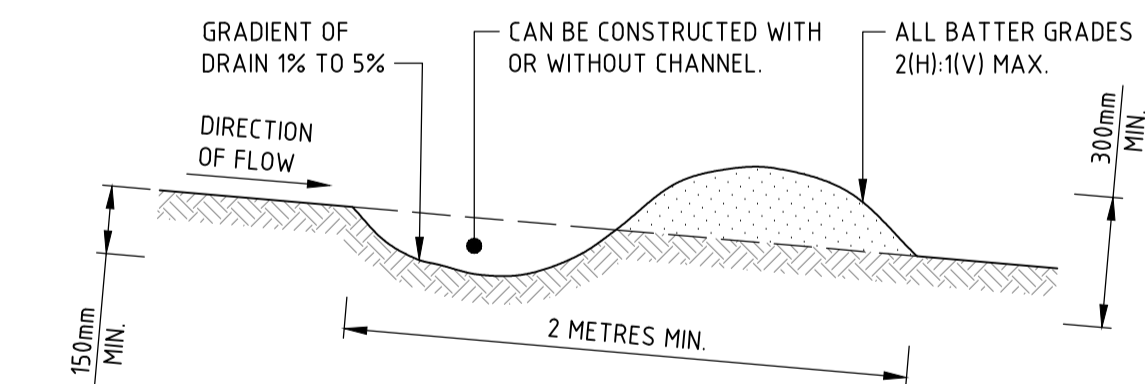
STABILISED SITE ACCESS (SD 6-14)



CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

STOCKPILES (SD 4-1)



CONSTRUCTION NOTES

1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

EARTH BANK - LOW FLOW (SD 5-5)



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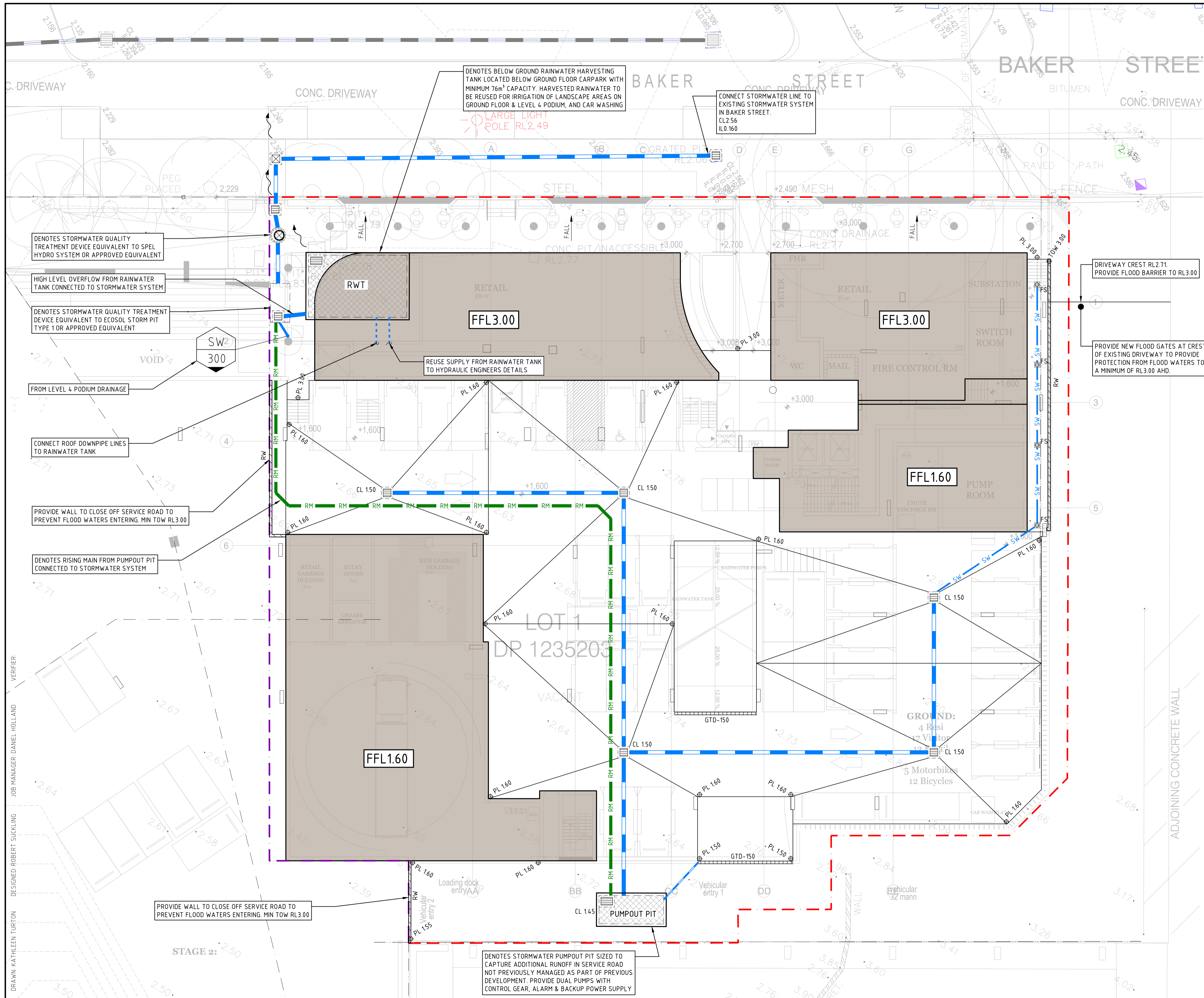
Granted on: 31 March 2022

Signed: AW Sheet No: 59 of 61

NOT FOR CONSTRUCTION

DRAWN: KATHLEEN TURTON DESIGNED: ROBERT SUCKLING JOB MANAGER: DANIEL HOLLAND VERIFIER:

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT	PROJECT	DRAWING TITLE	JOB NUMBER	
A	DEVELOPMENT APPLICATION	KT		DH	22.03.21		DKO ARCHITECTURE	 Central Coast Suite 4, 257-259 Central Coast Hwy, Erina NSW 2250 Ph (02) 4365 1688 Fax (02) 4367 6555 Email centralcoast@northrop.com.au ABN 81 094 433 100	CENTRAL COAST QUARTER NORTH TOWER 26-30 MANN ST GOSFORD	INTERNAL CIVIL WORKS SOIL & WATER CYCLE MANAGEMENT DETAILS	SY202243
										DRAWING NUMBER	REVISION
										C2.2	A
DRAWING SHEET SIZE = A1											



LEGEND

- DENOTES SITE BOUNDARY LINE
- DENOTES SUBDIVISION BOUNDARY LINE
- DENOTES BOUNDARY LINE
- DENOTES PROPOSED BUILDING EXTENTS, REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR DETAILS
- DENOTES PROPOSED FINISHED FLOOR LEVEL
- DENOTES PROPOSED FINISHED SURFACE LEVEL
- DENOTES EXISTING SURFACE LEVEL
- DENOTES EXISTING CONTOURS
- DENOTES RETAINING WALL
- DENOTES STORMWATER PIT (NEW / EXISTING)
- DENOTES GRATED TRENCH DRAIN & WIDTH
- DENOTES FLOOR SUMP
- DENOTES PUMP OUT PIT
- DENOTES RAINWATER HARVESTING TANK
- DENOTES RISING MAIN
- DENOTES STORMWATER LINE & SIZE
- DENOTES EXISTING STORMWATER PIPE

LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE ONLY & MAY NOT BE COMPLETE. THE BUILDER IS RESPONSIBLE FOR LOCATING EXISTING INFRASTRUCTURE (CULVERTS, PITS, PIPES, SERVICES, INVERT & COVER LEVELS ETC) PRIOR TO COMMENCING CONSTRUCTION.

THE BUILDER SHALL ALLOW TO MODIFY ALL EXISTING SERVICE COVERS TO MATCH THE NEW PAVEMENTS, IN ACCORDANCE WITH THE RELEVANT AUTHORITIES REQUIREMENTS.

PROVIDE TEMPORARY TRAFFIC CONTROL IN ACCORDANCE WITH STATE & FEDERAL STATUTORY REQUIREMENTS AND LOCAL COUNCIL SPECIFICATIONS/REQUIREMENTS

NOTE: ALL LEVELS TO AUSTRALIAN HEIGHT DATUM (AHD). ORIGIN OF LEVELS SSM 59591, RL 8.88

DRAWINGS TO BE READ IN CONJUNCTION WITH CONCEPT WATER CYCLE MANAGEMENT REPORT

Department of Planning and Environment

Issued under the *Environmental Planning and Assessment Act 1979*
 Approved Application No: **SSD 23588910**

Granted on: **31 March 2022**

Signed: **AW** Sheet No: **60 of 61**



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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
A	DEVELOPMENT APPLICATION	RS		DH	22.03.21
B	DEVELOPMENT APPLICATION	RS		DH	26.03.21

CLIENT: **StHilliers**

ARCHITECT: **DKO ARCHITECTURE**

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PLANS 1:150 @ A1

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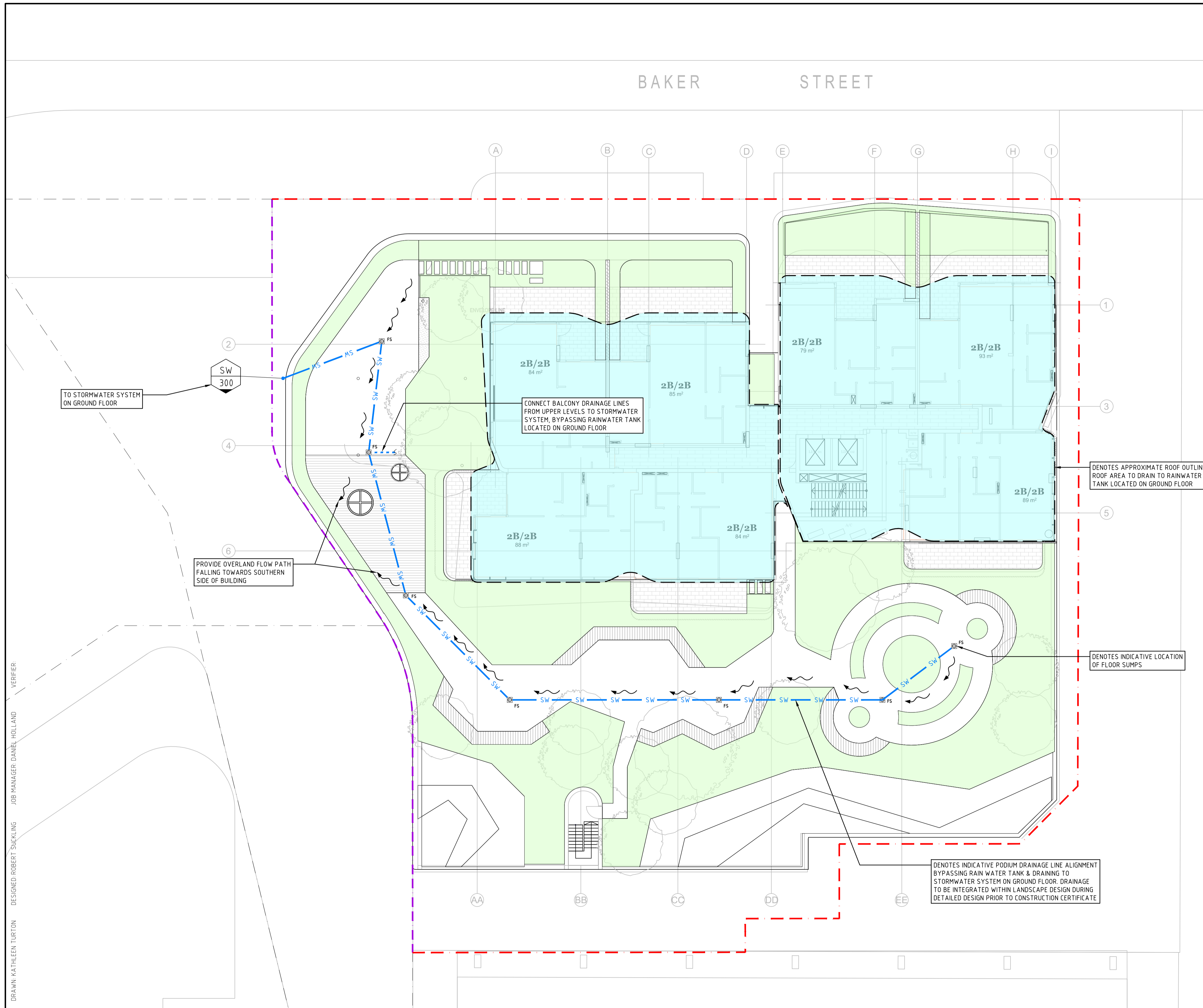
PROJECT: **CENTRAL COAST QUARTER NORTH TOWER 26-30 MANN ST GOSFORD**

DRAWING TITLE: **INTERNAL CIVIL WORKS STORMWATER MANAGEMENT & LEVELS PLAN GROUND**

JOB NUMBER: **SY202243**

DRAWING NUMBER: **C4.1** REVISION: **B**

DRAWING SHEET SIZE = A1



LEGEND

- DENOTES SITE BOUNDARY LINE
- DENOTES SUBDIVISION BOUNDARY LINE
- DENOTES BOUNDARY LINE
- DENOTES APPROXIMATE ROOF OUTLINE, ROOF AREA TO DRAIN TO RAINWATER TANK LOCATED ON GROUND FLOOR
- DENOTES LANDSCAPING EXTENTS (PODIUM LEVEL), REFER TO LANDSCAPE/ARCHITECTS DRAWINGS FOR DETAILS
- FS DENOTES FLOOR SUMP
- SW --- SW DENOTES PODIUM DRAINAGE LINE BYPASSING RAINWATER TANK LOCATED ON GROUND FLOOR
- ~ DENOTES OVERLAND FLOW PATH

DRAWINGS TO BE READ IN CONJUNCTION WITH CONCEPT WATER CYCLE MANAGEMENT REPORT

Department of Planning and Environment

Issued under the Environmental Planning and Assessment Act 1979
Approved Application No: SSD 23588910

Granted on: 31 March 2022

Signed: AW Sheet No: 61 of 61

DRAWN: KATHLEEN TURTON DESIGNED: ROBERT SUCKLING JOB MANAGER: DANIEL HOLLAND VERIFIER:

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PROJECT

**CENTRAL COAST QUARTER
NORTH TOWER
26-30 MANN ST GOSFORD**

DRAWING TITLE

**INTERNAL CIVIL WORKS
STORMWATER MANAGEMENT
& LEVELS PLAN
LEVEL 4**

JOB NUMBER

SY202243

DRAWING NUMBER	REVISION
C4.2	A

DRAWING SHEET SIZE = A1