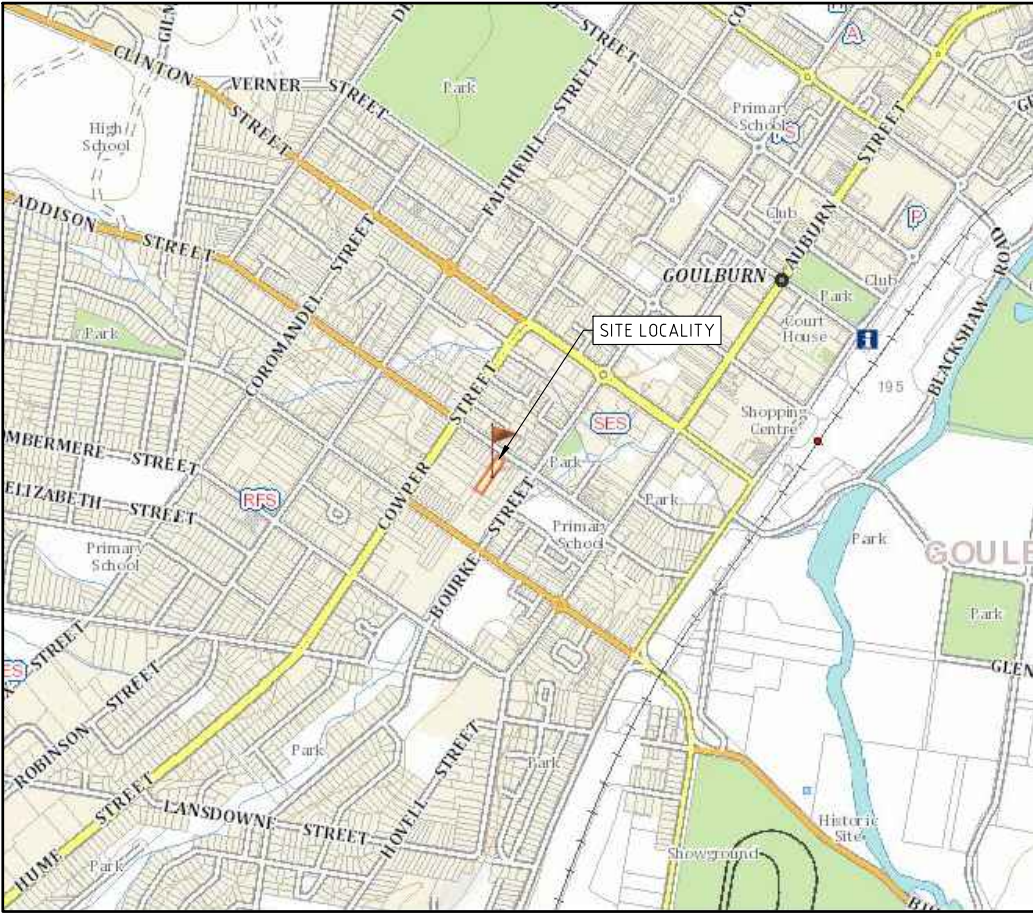


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PROPOSED 3 RESIDENCES
28 ADDISON STREET, GOULBURN
CONCEPT STORMWATER DRAINAGE PLAN

DRAWING SCHEDULE

DRAWING NUMBER	DRAWING TITLE
STW00	TITLE SHEET, DRAWING SCHEDULE & SITE LOCALITY PLAN
STW01	CONCEPT STORMWATER DRAINAGE OVERALL SITE PLAN
STW02	CONCEPT STORMWATER DRAINAGE PLAN
STW03	CONCEPT STORMWATER DRAINAGE CATCHMENT PLAN, 'DRAINS' MODEL LAYOUT, & RESULTS
STW04	CONCEPT STORMWATER DRAINAGE TYPICAL DETAILS & SECTIONS
STW05	WATER CYCLE MANAGEMENT STUDY NorBE ASSESSMENT ASSUMPTIONS & TYPICAL SECTIONS
STW06	WATER CYCLE MANAGEMENT STUDY MUSIC MODEL LAYOUT & RESULTS SUMMARY
ESCP01	EROSION & SEDIMENT CONTROL PLAN - SITE LAYOUT
ESCP02	EROSION & SEDIMENT CONTROL PLAN - NOTES & STANDARD DETAILS



LOCALITY PLAN
N.T.S

DOCUMENT CERTIFICATION
This plan has been developed based on agreed requirements as understood by SEEC at the time of engagement. It applies only to a specific task on the nominated lands. Other interpretations should not be made, including changes in scale or application to other projects. Changes to the project scope or extent might impact on the validity of this plan.

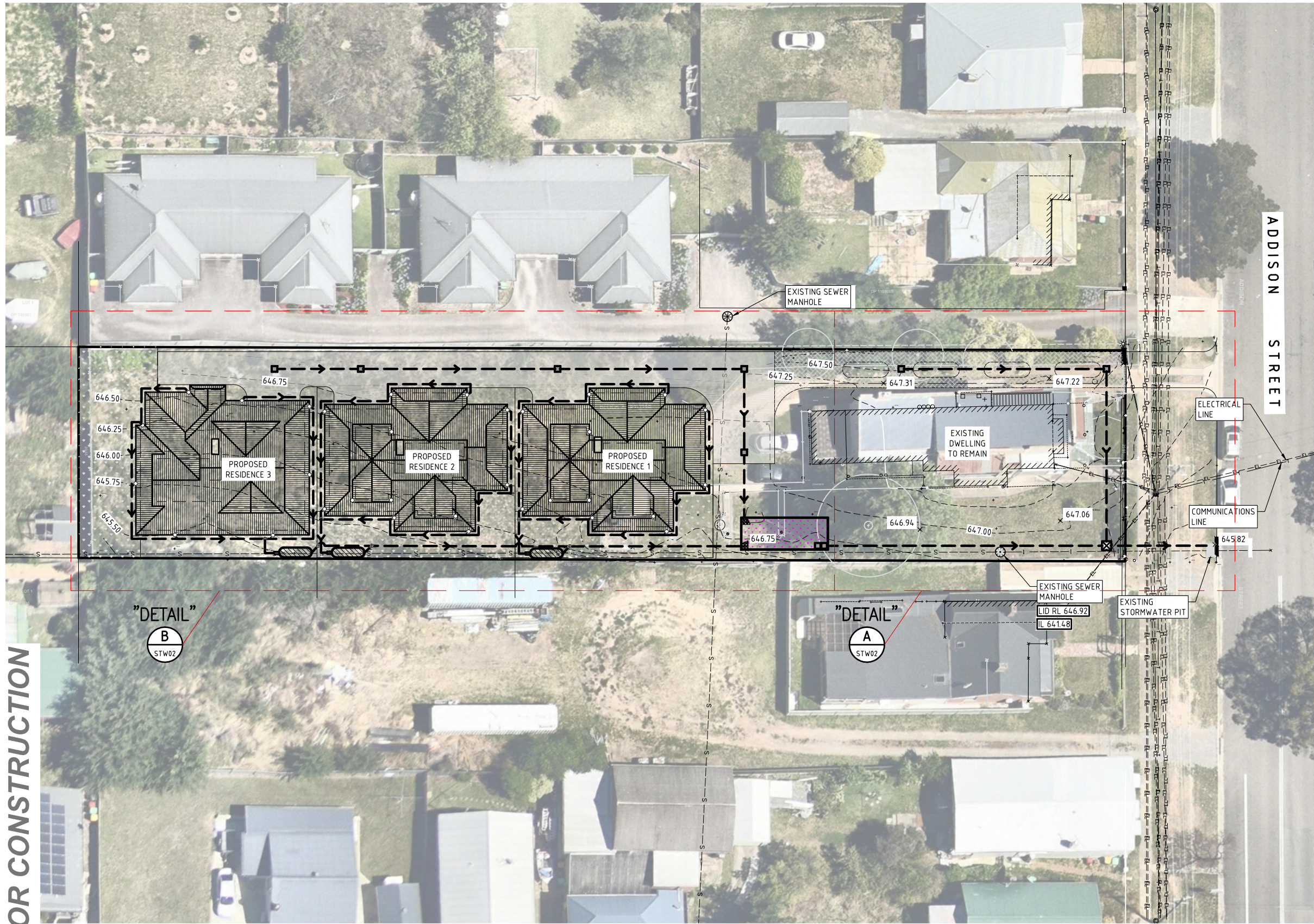
Any recommendations contained in this plan are based on an honest appraisal of the opportunities and constraints that existed at the site at the time of investigation, or as advised to us. Such recommendations are potentially subject to the limited scope and resources available.

REV	DATE	DES.	DRN.	APP.	REVISION DETAILS	DRAWING STATUS	North	CLIENT	PROJECT TITLE	DRAWING TITLE
						DESIGN BY DRAWN BY FINAL APPROVAL SCALE: (on A1 Original)		THE TRUSTEE FOR 28 ADDISON PROPERTY TRUST C/- TINA DOBSON	PROPOSED 3 RESIDENCES 28 ADDISON ST GOULBURN, NSW 2580	TITLE SHEET, DRAWING SCHEDULE, & SITE LOCALITY PLAN
						R.B. R.B. J.A. NOT TO SCALE				
00	06/07/23	R.B.	R.B.	J.A.	FINAL ISSUE - FOR APPROVAL	FINAL				
B	17/05/23	R.B.	R.B.	J.A.	DRAFT ISSUE - UPDATED FOR WATER QUALITY STRUCTURES					
A	21/04/23	R.B.	R.B.	J.A.	DRAFT ISSUE - FOR REVIEW					
PROJECT NO. 23000111 SUB-PR NO. P01 DRAWING NO. STW00 REV 00										

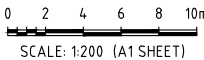


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OVERALL SITE PLAN



STORMWATER DESIGN SUMMARY

GENERAL

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE SUPERINTENDENT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO CARRYING OUT THE WORKS.
2. THESE DRAWINGS ARE FOR DEVELOPMENT APPLICATION PURPOSES ONLY. FULL CONSTRUCTION STORMWATER DRAINAGE PLANS ARE TO BE UNDERTAKEN AFTER THE DA HAS BEEN APPROVED AND PRIOR TO CONSTRUCTION.
3. ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THESE DRAWINGS AND THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS.
4. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL SPECIFICATIONS AND SUPPORTING DOCUMENTATION.
5. EXACT DIMENSIONS AND CONFIGURATION TO BE ESTABLISHED ON SITE. DESIGNED BATTERS SHALL BE SMOOTHLY TRANSITIONED TO CONNECT TO EXISTING SLOPES.
6. ALL NEW WORKS ARE TO JOIN NEATLY TO EXISTING.
7. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS. CONSTRUCT AS PER DIMENSIONS, SETOUT POINTS AND REFERENCE LEVELS NOTED ON THE DRAWINGS.
8. THE CONTRACTOR'S ENGINEER IS TO UNDERTAKE INSPECTIONS DURING CONSTRUCTION TO ENSURE CONSTRUCTION IS IN ACCORDANCE WITH THE DRAWINGS. THE ENGINEER IS TO PROVIDE AN INSPECTION CERTIFICATE.
9. THESE DRAWINGS HAVE BEEN PREPARED BASED ON DRAWINGS FROM THE CLIENT'S ARCHITECT, PAUL MEYER DESIGN PTY LTD. SURVEY DATA HAS ALSO BEEN PROVIDED ON THESE DRAWINGS.
10. ALL LEVELS ARE IN METRES TO AUSTRALIAN HEIGHT DATUM (AHD).
11. ALL COORDINATES ARE BASED ON AN ASSUMED DATUM.
12. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORKS.
13. A DIAL BEFORE YOU DIG (DBYD) HAS NOT BEEN UNDERTAKEN AS PART OF THE DESIGN SHOWN. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM THE DEPTH AND LOCATION OF ALL OBSTRUCTIONS AND UNDERGROUND SERVICES IN THE VICINITY OF THE WORKS PRIOR TO THE COMMENCEMENT OF ANY WORKS.
14. ALL REASONABLE EFFORT SHALL BE MADE TO PRESERVE AND PROTECT EXISTING VEGETATION.
15. ALL CHANGES PROPOSED TO WORKS DURING THE CONSTRUCTION PHASE WHICH DIFFER TO THAT SHOWN ON THE APPROVED DRAWING SET MUST BE APPROVED IN WRITING BY THE DESIGN ENGINEER.

STORMWATER GENERAL

1. ALL PIPES TO HAVE MIN 300mm COVER IF LOCATED WITHIN PROPERTY.
2. ALL STORMWATER DRAINAGE LINE TO BE MIN. 100 UPVC U.N.O.
3. ALL DOWNPIPES TO BE MIN. 100 UPVC.
4. ALL ROOF QUAD GUTTERS TO BE MIN. 125mm QUAD GUTTER TYPE OR SIMILAR.
5. ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3, THE BUILDING CODE OF AUSTRALIA (BCA), AND COUNCIL SPECIFICATIONS.

LOCATION OF STRUCTURES

1. THE LOCATION OF STRUCTURES SHOWN INDICATE THE POSSIBLE ARRANGEMENT OF STORMWATER AND WATER QUALITY CONTROL DEVICES THAT WOULD SATISFY COUNCIL REQUIREMENTS.
2. FLOOR LEVELS OF ALL BUILDINGS TO BE SET A MINIMUM OF 300mm ABOVE ANY ADJACENT OVERLAND FLOW PATHS.
3. ALL FINISHED GROUND LEVELS AROUND THE BUILDING/S ARE TO GRADE AWAY FROM THE BUILDING/S TO PREVENT PONDING AGAINST THE STRUCTURE/S.

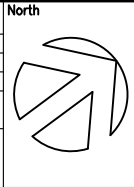
STORMWATER DESIGN

1. THE PROPOSED STORMWATER SYSTEM DESIGN, STRUCTURES AND MANAGEMENT IS TO BE IN ACCORDANCE WITH GOULBURN MULWAREE COUNCIL DESIGN SPECIFICATIONS & ENGINEERING STANDARDS.
2. **RAINWATER TANKS** - EACH NEW DWELLING ROOF AREA SHALL CONNECT INTO A 5,000L ABOVE GROUND RAINWATER TANK.
3. THE RAINWATER TANK IS TO BE FITTED WITH A FIRST FLUSH DIVERTER AND INLET FILTER.
4. IT IS ALSO RECOMMENDED THAT THE ALL ROOF AREAS SUPPLYING RUNOFF TO THE RAINWATER COLLECTION TANK SHOULD HAVE 'GUTTER GUARD' OR SIMILAR INSTALLED.
5. **ON-SITE DETENTION** - 2,500L OF ON-SITE DETENTION HAS BEEN PROVIDED IN EACH ABOVE GROUND RAINWATER TANK. THE REMAINING 2,500L IN EACH TANK IS FOR PERMANENT USE. AN ADDITIONAL 10,000L OF ON-SITE DETENTION HAS BEEN PROVIDED IN THE BIORETENTION BASIN.
6. **MANAGEMENT & MAINTENANCE** - ALL STORMWATER MANAGEMENT STRUCTURES INCLUDING ROOF GUTTERS, TANKS, PIT & PIPE SYSTEMS ARE TO BE FREQUENTLY INSPECTED AND CLEARED OF SEDIMENT & DEBRIS TO REDUCE THE RISK OF BLOCKAGE & OVERFLOW DURING RAINFALL EVENTS.



REV	DATE	DES.	DRN.	APP.	REVISION DETAILS
00	06/07/23	R.B.	R.B.	J.A.	FINAL ISSUE - FOR APPROVAL
B	17/05/23	R.B.	R.B.	J.A.	DRAFT ISSUE - UPDATED FOR WATER QUALITY STRUCTURES
A	21/04/23	R.B.	R.B.	J.A.	DRAFT ISSUE - FOR REVIEW

DRAWING STATUS	
DESIGN BY	R.B.
DRAWN BY	R.B.
FINAL APPROVAL	J.A.
SCALE:	1:200
(on A1 Original)	
FINAL	


















CLIENT
THE TRUSTEE FOR 28 ADDISON
PROPERTY TRUST
C/- TINA DOBSON

SEEC
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PROJECT TITLE
PROPOSED 3 RESIDENCES
28 ADDISON ST GOULBURN,
NSW 2580

DRAWING TITLE			
STORMWATER DRAINAGE OVERALL SITE PLAN			
PROJECT NO.	SUB-PR NO.	DRAWING NO.	REV
23000111	P01	STW01	00

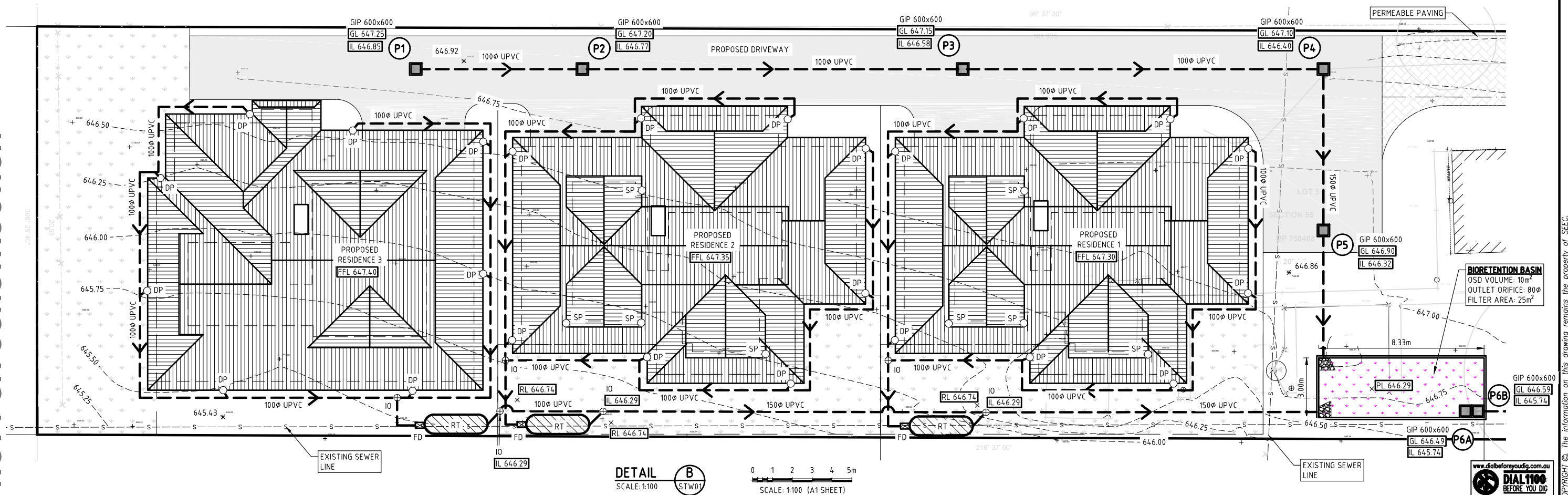
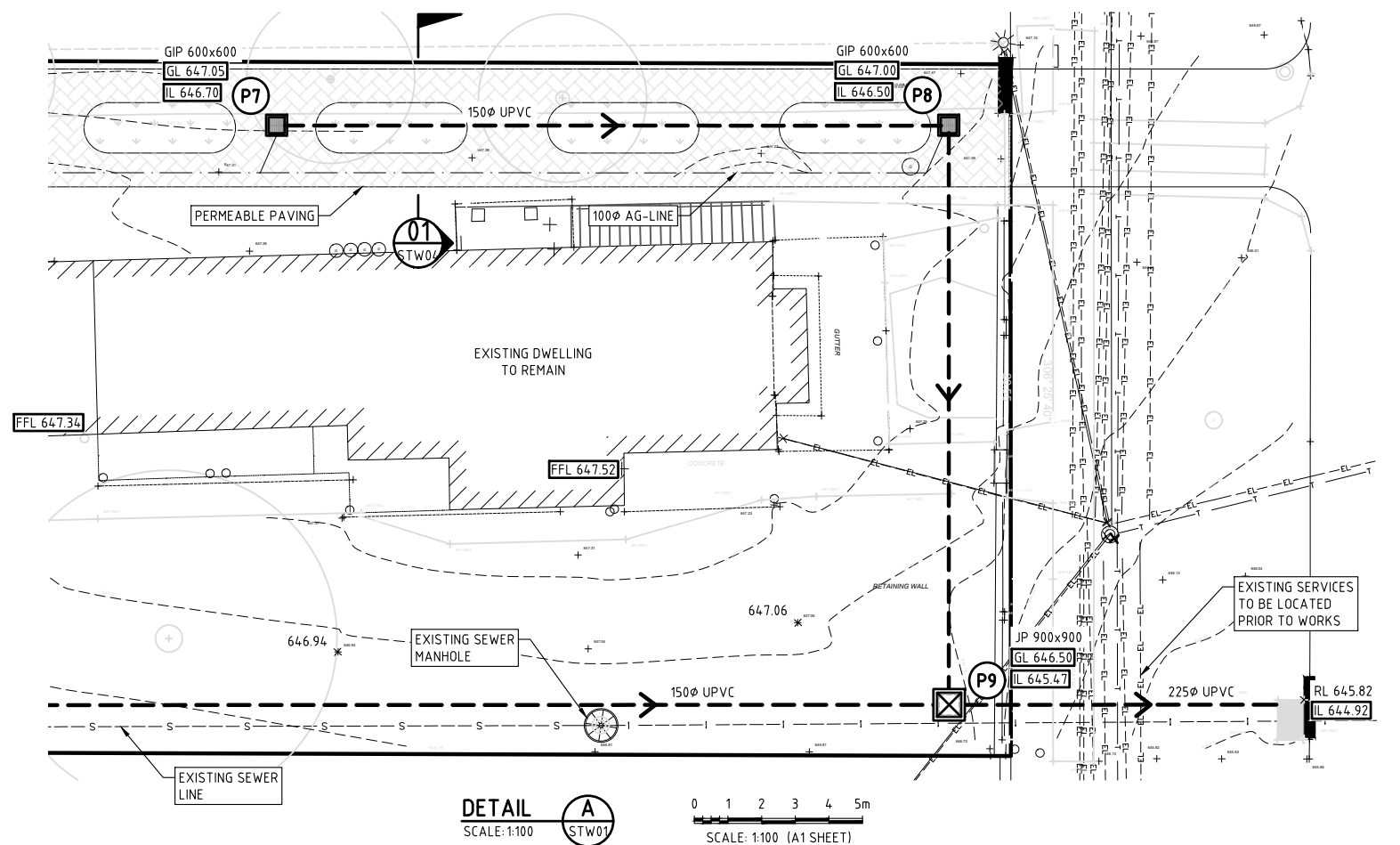
<u>LEGEND:</u>	
	EXISTING FLOOR LEVEL
	PIT GRATE LEVEL
	PIT INVERT LEVEL
× 622.56	EXISTING GROUND LEVEL
× 	PROPOSED GROUND LEVEL
-----	EXISTING SURFACE CONTOUR (0.50m INTERVAL)
→	DIRECTION OF WATER FLOW
---→---	STORMWATER DRAINAGE PIPE Ø100 uPVC UNO
---·---·---	100Ø AG-LINE
JP 	COVERED JUNCTION PIT WITH FILTER SCREEN
GIP 	GRATED INLET PIT
	PIT NUMBER
DP ○	PROPOSED DOWN PIPES
SP 	SPREADER PIPE
IO 	INSPECTION RISER WITH CAP
	PROPOSED 5,000L ABOVE GROUND RAINWATER TANK
FD 	FIRST FLUSH DEVICE
	BIORETENTION BASIN / RAINGARDEN FILTER BED
	ROCK RIP-RAP ENERGY DISSIPATOR
	PROPOSED CONCRETE DRIVEWAY
	PROPOSED PERMEABLE PAVING

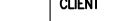

LEGEND:

—— S —— EXISTING SEWER LINE

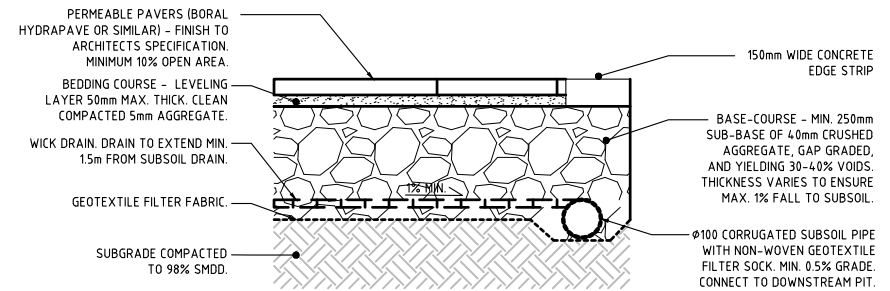
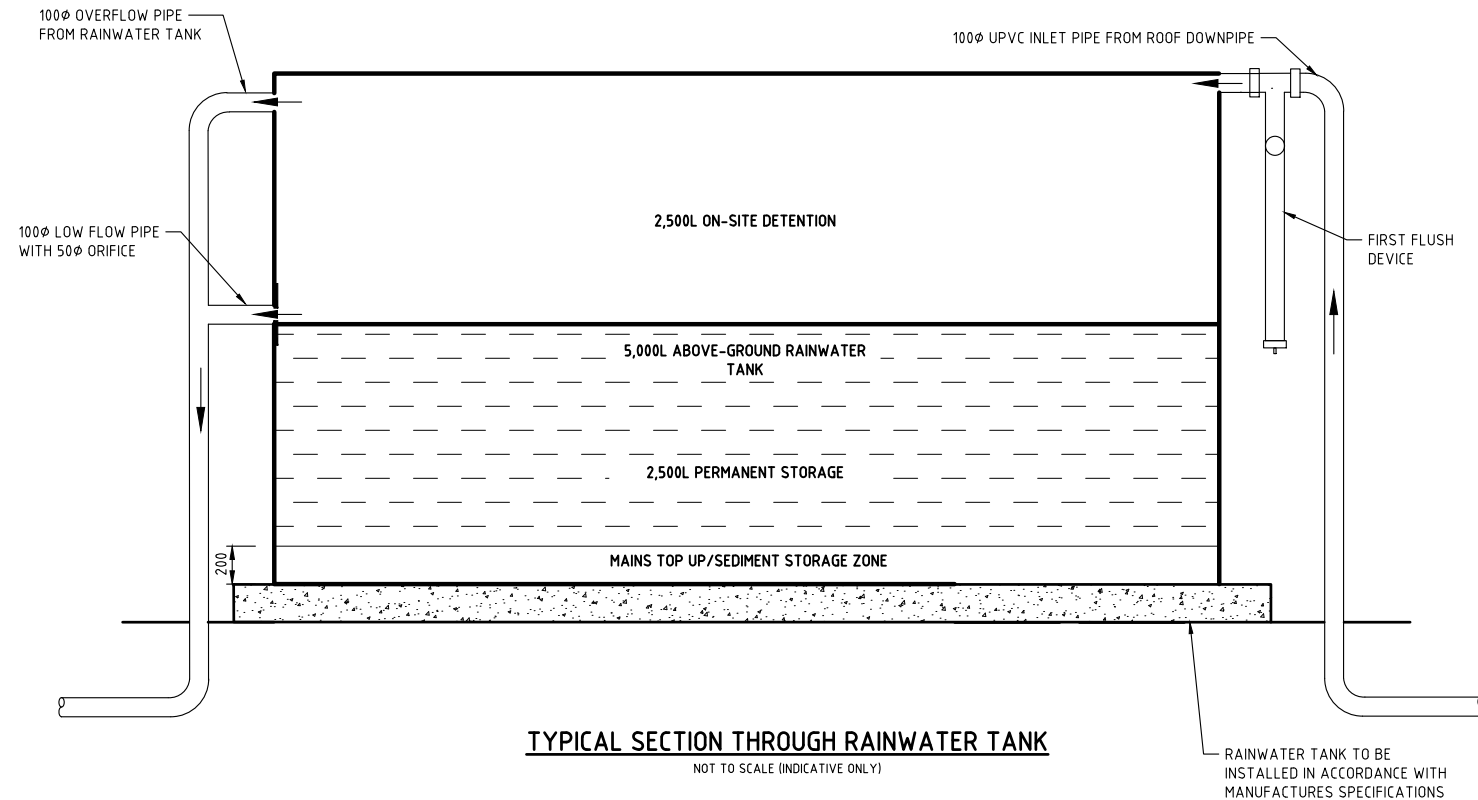
—— EL —— EXISTING ELECTRICAL SERVICES

—— T —— EXISTING TELECOMMUNICATION SERVICES



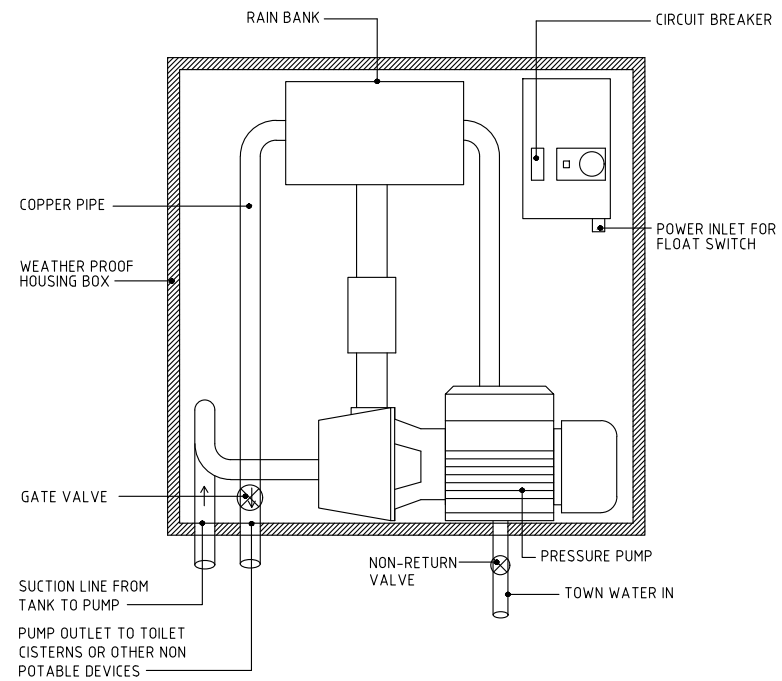
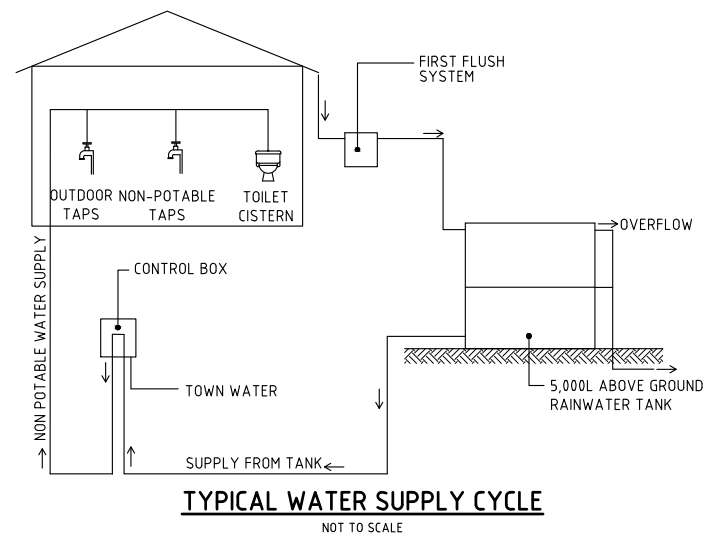
REV	DATE	DES.	DRN.	APP.	REVISION DETAILS	DRAWING STATUS	North	CLIENT	PROJECT TITLE	DRAWING TITLE				
						DESIGN BY: R.B.		THE TRUSTEE FOR 28 ADDISON PROPERTY TRUST C/- TINA DOBSON	 Suites 7 & 8, 68-70 Station Street PO Box 1098, Bowral NSW 2576. (t) 02 4862 1633 (f) 02 4862 3088 email: reception@seec.com.au WWW.SEEC.COM.AU	PROPOSED 3 RESIDENCES 28 ADDISON ST GOULBURN, NSW 2580	STORMWATER DRAINAGE PLAN			
						DRAWN BY: R.B.								
						FINAL APPROVAL: J.A.								
						SCALE: 1:100 (on A1 Original)								
00	06/07/23	R.B.	R.B.	J.A.	FINAL ISSUE — FOR APPROVAL	FINAL				PROJECT NO. 23000111	SUB-PR NO. P01	DRAWING NO. STW02	REV 00	
B	17/05/23	R.B.	R.B.	J.A.	DRAFT ISSUE — UPDATED FOR WATER QUALITY STRUCTURES									
A	21/04/23	R.B.	R.B.	J.A.	DRAFT ISSUE — FOR REVIEW									

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TYPICAL CROSS SECTION THROUGH PERMEABLE PAVING

SECTION 01
SCALE: 1:20
STW02



TYPICAL RAINWATER TANK CONTROL BOX

NOT TO SCALE

REV	DATE	DES.	DRN.	APP.	REVISION DETAILS	DRAWING STATUS	North	CLIENT	PROJECT TITLE	DRAWING TITLE
						DESIGN BY R.B.		THE TRUSTEE FOR 28 ADDISON PROPERTY TRUST	PROPOSED 3 RESIDENCES	STORMWATER DRAINAGE
						DRAWN BY R.B.		C/- TINA DOBSON	28 ADDISON ST GOULBURN,	TYPICAL DETAILS & SECTIONS
						FINAL APPROVAL J.A.			NSW 2580	
						SCALE: (on A1 Original) AS SHOWN				
00	06/07/23	R.B.	R.B.	J.A.	FINAL ISSUE - FOR APPROVAL	FINAL				
B	17/05/23	R.B.	R.B.	J.A.	DRAFT ISSUE - UPDATED FOR WATER QUALITY STRUCTURES					
A	21/04/23	R.B.	R.B.	J.A.	DRAFT ISSUE - FOR REVIEW					

PROJECT NO.	SUB-PR NO.	DRAWING NO.	REV
23000111	P01	STW04	00

Key Assumptions

1.

Music modelling has assumed pervious fractions calibrated for silty clay loam soil.
2.

The climate data is Water NSW's Zone 1.
3.

The pre-developed lands are modelled as 0.106 ha of residential lands, 15% impervious which includes the existing driveway & other paved areas. Only the development area has been modelled.
4.

The post-developed lands are modelled as:

•

0.064 ha of new roof area.

•

New roof areas are to be connected to three above ground 5kL rainwater collection tanks. The top 2.5kL of each tank is to be reserved for on-site detention purposes.

•

Overflow from the rainwater tanks is to be directed into the proposed stormwater drainage system.

•

Rainwater tank usage has been modelled as the following:

Internal use

- 2.535 kL/day base on 3 x 4 bedroom dwellings (0.845 kL/day each). Rainwater tanks to be connected into toilets, laundry & hotwater (90%).

External use

- 165 kL/yr base on 3 x 55 kL/yr for the 3 dwellings.

•

0.033 ha of sealed driveways, 14% impervious.

•

0.0115 ha of permeable paved driveway area.

•

Run off from the hardstand/paved areas are to drain to the stormwater drainage system.

•

The stormwater drainage system is to direct flows to the proposed bioretention basin 1.

•

The outlet from the bioretention basin is to drain into the proposed drainage easement.

•

All pits in driveways to have Oceanguard pit filter baskets & inserts or equal.

•

All sizes and locations of items shown in these drawings are conceptual, not to scale and shown only for the purpose of estimating required water treatment device types, sizes and positioning to meet requirements. Actual sizes, locations & configurations are to be verified during detailed design.

5.

Rainfall thresholds are set to 1.5mm for driveway/hardstand, 1mm for curtilage areas and 0.3mm for roof (where required).

Details of Bioretention Basin

Ponded area Bioretention Basin = min 25 m² (refer to plan)
Filter area Bioretention Basin = min 25 m²
0.2 m ponded depth
Filter media TN content <400 mg/kg
Filter media TP content <40 mg/kg
Filter depth = 0.3 m
100 mm transition zone
200 mm drainage layer at base
Heavy duty plastic liner in base

BIORETENTION MEDIA DETAIL

SCALE 1:20

TYPICAL CROSS SECTION THROUGH BIORETENTION

BASIN OUTLET

NOTE: DETAIL IS NOT TO SCALE (INDICATIVE ONLY)

Media Specifications

The filtration media shall be well graded loamy sand with:

•

Saturated hydraulic conductivity (ASTM F1815-06) approximately 100 mm/hour

•

pH between 5.5 and 7.5

•

Organic content less than 5 percent

•

Electrical conductivity less than 1.2 ds/m

•

Orthophosphate content less than 40 mg/kg

•

Total nitrogen content <400 mg/kg

Subject to adequate hydraulic conductivity the following particle size distribution is a guide:

Clay and silt	< 3%	(<0.05 mm)
vVery fine sand	5-30%	(0.05 - 0.15 mm)
Fine sand	10-30%	(0.15 - 0.25 mm)
Med-coarse sand	40-60%	(0.25 - 1.0 mm)
Coarse sand	7-10%	(1.0 - 2.0 mm)
Fine gravel	<3%	(>2.0 mm)

The filtration media will be compacted with **one** pass of a vibratory plate compacter or drum roller.

The **transition layer** shall be clean, well-graded sand containing little or no clay and silt (<2%). d15 of the transition layer must be <5 x d85 of the filter zone.

The **drainage layer** shall be 2-5 mm washed screenings with <2% silt and clay.

Plants such as carex and juncus must be planted at a density of 8 plants/m².

A once-off **initial amelioration** is required to provide an initial boost to plant growth. incorporate the constituents in table 1 into the top 100 mm of filter layer.

TABLE 1 - AMELIORANT RECIPE FOR TOP 100mm OF FILTER BED

Constituent	Quantity kg/100m ² filter area
Granulated poultry manure	50
Superphosphate	2
Magnesium sulphate	3
Potassium sulphate	2
Trace element mix	1
Fertilizer (16:4:14)	4
Lime	20

REV	DATE	DES.	DRN.	APP.	REVISION DETAILS	DRAWING STATUS	North	CLIENT	PROJECT TITLE	DRAWING TITLE
						DESIGN BY R.B.		THE TRUSTEE FOR 28 ADDISON PROPERTY TRUST	PROPOSED 3 RESIDENCES	WATER CYCLE MANAGEMENT STUDY
						DRAWN BY R.B.		PROPERTY TRUST	28 ADDISON ST GOULBURN,	NorBE ASSESSMENT ASSUMPTIONS &
						FINAL APPROVAL J.A.		C/- TINA DOBSON	NSW 2580	TYPICAL SECTIONS
						SCALE: (on A1 Original) AS SHOWN				
00	06/07/23	R.B.	R.B.	J.A.	FINAL ISSUE - FOR APPROVAL	FINAL				
B	17/05/23	R.B.	R.B.	J.A.	DRAFT ISSUE - UPDATED FOR WATER QUALITY STRUCTURES					
A	21/04/23	R.B.	R.B.	J.A.	DRAFT ISSUE - FOR REVIEW					

Plot Date: Thursday, 6 July 2023 3:46:43 PM

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This graph displays the cumulative frequency distribution of TP concentration (mg/L) for two scenarios: Pre-Development Node and Post-Development Node. The Y-axis represents Cumulative Frequency (%) from 0 to 100, and the X-axis represents Concentration (mg/L) from 0 to 2.0. The Post-Development Node curve (blue) is shifted to the left of the Pre-Development Node curve (red), indicating a decrease in TP concentration after development.

Concentration (mg/L)	Pre-Development Node - TP - Concentration In (%)	Post-Development Node - TP - Concentration In (%)
0.0	0	0
0.1	10	95
0.2	65	100
0.3	85	100
0.4	95	100
0.5	98	100
0.6	100	100
0.8	100	100
1.0	100	100
1.2	100	100
1.4	100	100
1.6	100	100
1.8	100	100
2.0	100	100

Pre-Development Node **Post-Development Node**

Cumulative Frequency (%)

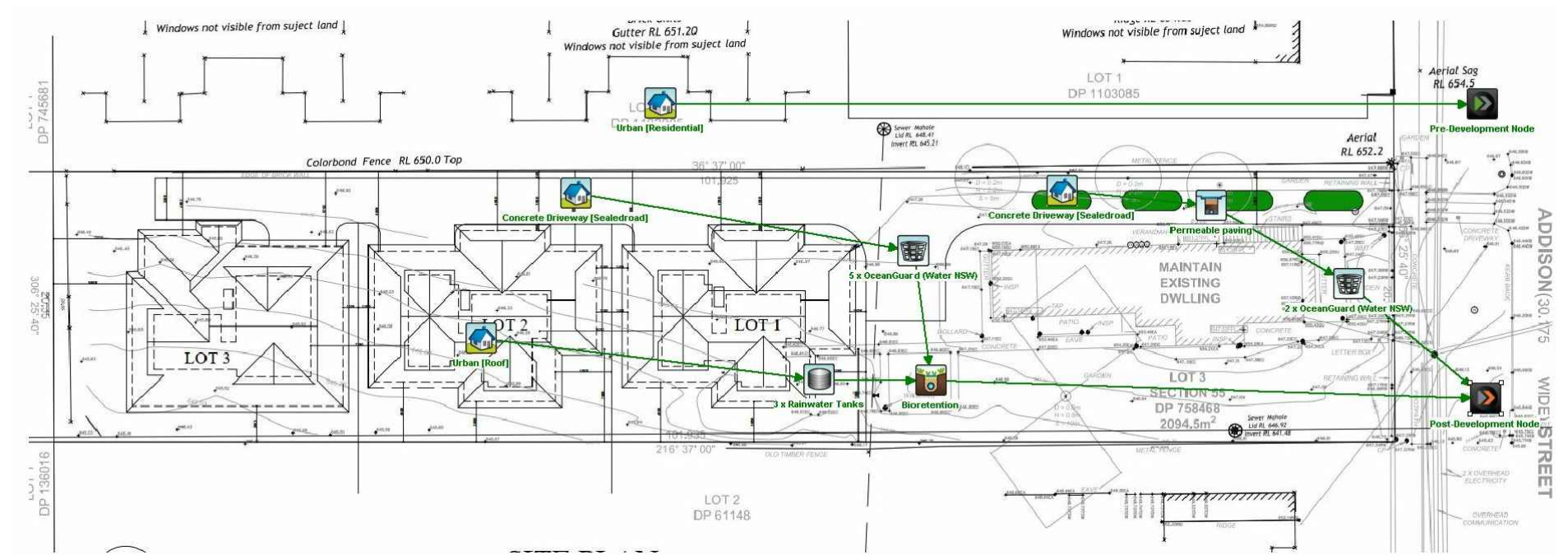
Concentration (mg/L)

☒ — Pre-Development Node - TN - Concentration In
☒ — Post-Development Node - TN - Concentration In

NORBE ASSESSMENT

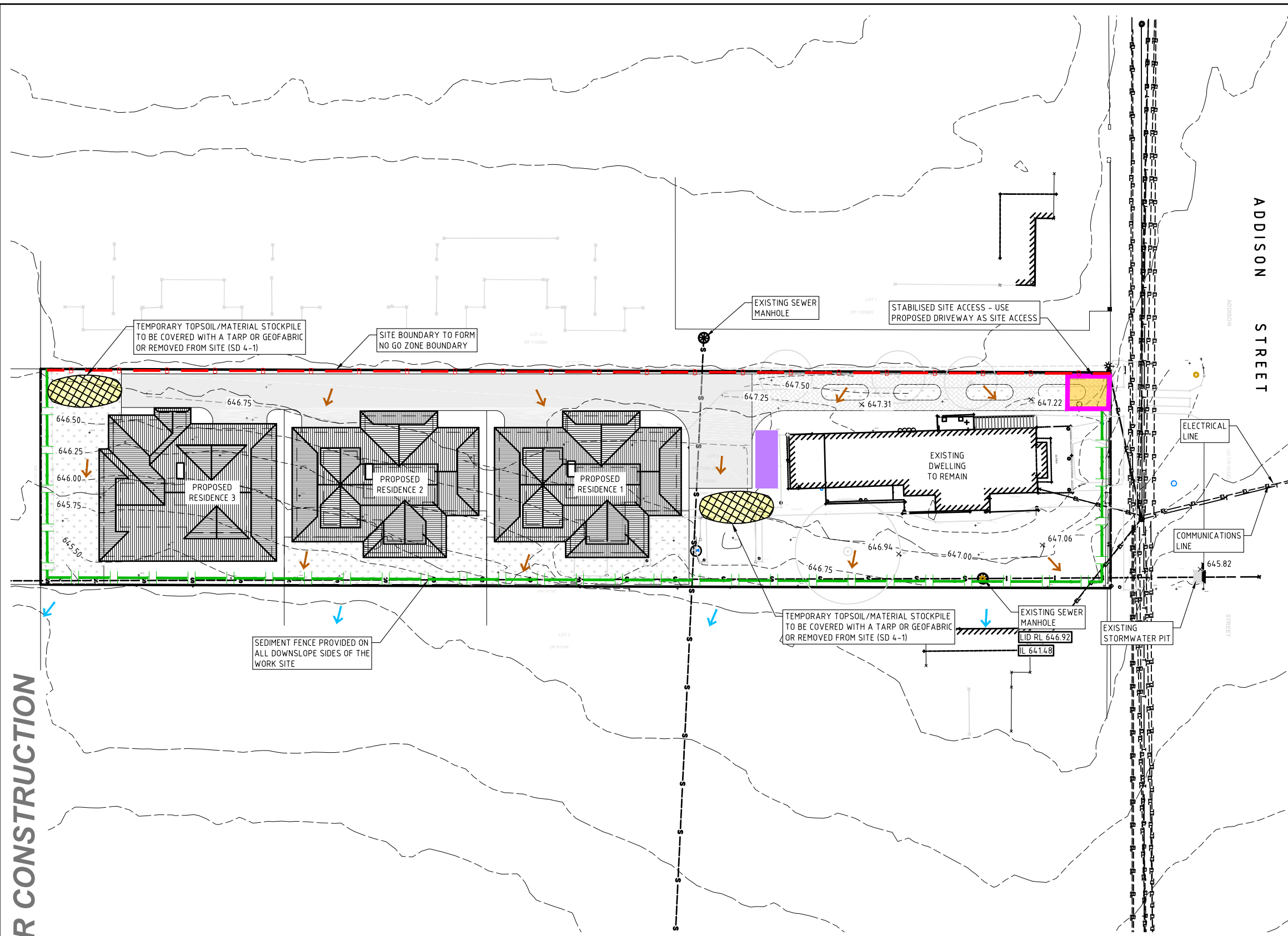
THE RESULTS OF THE MUSIC MODELLING SHOW:

- A CLEAR BENEFIT TO WATER QUALITY IN TERMS OF MEAN ANNUAL LOADS
- A CLEAR BENEFIT TO WATER QUALITY IN TERMS OF TOTAL PHOSPHOROUS CONCENTRATIONS
- A CLEAR BENEFIT TO WATER QUALITY IN TERMS OF TOTAL NITROGEN CONCENTRATIONS.



MUSIC MODEL RUN - "23000111_MUSIC_03.sqz

NOT FOR CONSTRUCTION



LEGEND:

- SEDIMENT FENCE (SD 6-8)
- BARRIER FENCING/FLAGGING TO DEFINE DISTURBANCE LIMITS
- CLEAN WATER FLOW DIRECTION
- DIRTY WATER FLOW DIRECTION
- STABILISED SITE ACCESS (SD 6-14)
- TOPSOIL/MATERIAL STOCKPILE AREA
- SITE FACILITIES (SITE TOILET, CONTAINER/STORAGE, PARKING ETC.) IF REQUIRED

BACKGROUND
EROSION AND SEDIMENT CONTROL DESIGN
THIS EROSION AND SEDIMENT CONTROL PLAN (ESCP) HAS BEEN PREPARED IN ACCORDANCE WITH BLUE BOOK VOLUME 1 (LANDCOM, 2004) AND PROJECT APPROVAL CONDITIONS.

THE SITE IS <2,500m² AND THEREFORE, DOES NOT TRIGGER THE REQUIREMENT FOR A SWMP AND A SEDIMENT BASIN ASSESSMENT. THEREFORE AN EROSION HAZARD ASSESSMENT HAS NOT BEEN CARRIED OUT FOR THIS SITE.

IMPLEMENTATION OF EROSION AND SEDIMENT CONTROLS
WORKS ARE TO BE STAGED IN THE FOLLOWING ORDER WITH THE RELEVANT EROSION AND SEDIMENT CONTROLS IMPLEMENTED PRIOR TO AND DURING EACH SECTION OF WORKS AS SPECIFIED.

BEFORE COMMENCEMENT OF CLEARING, TOPSOIL STRIPPING AND EARTHWORKS IN EACH AREA/SECTION OF WORKS, THE SITE IS TO BE SECURED AND THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES INSTALLED IN ORDER EXCEPT FOR ITEMS 7 TO 10 WHICH ARE TO BE UNDERTAKEN PROGRESSIVELY AS REQUIRED THROUGHOUT ALL STAGES OF WORKS. STRIPPING AND EARTHWORKS NECESSARY TO INSTALL THE EROSION AND SEDIMENT CONTROLS ARE PERMITTED BUT MUST BE KEPT TO AN ABSOLUTE MINIMUM:

- EXISTING SITE FENCING (OR ALTERNATIVE MEASURES) SHOULD BE MAINTAINED IN PLACE AROUND THE EDGE OF THE CONSTRUCTION BOUNDARY TO RESTRICT ACCESS AND BARRIER FENCING INSTALLED IN ANY ADDITIONAL LOCATIONS AS REQUIRED TO MINIMISE UNNECESSARY DISTURBANCE.
- ESTABLISH STABILISED SITE ENTRY/EXIT POINTS (MAINTAIN EXISTING GRAVEL DRIVEWAY IN A STABLE CONDITION OR PROVIDE AS STANDARD DRAWING SD 6-14 ON ESCP02) IN THE LOCATION SHOWN AND ANYWHERE WHERE CONSTRUCTION VEHICLES EXIT A WORK AREA ONTO A PUBLIC ROAD.
- ESTABLISH A TEMPORARY SITE FACILITIES (E.G. TOILET AND PARKING AREA).
- INSTALL SEDIMENT FENCING IN THE LOCATIONS SHOWN AND FOLLOWING STANDARD DRAWING SD 6-8 ON ESCP02. ENSURE RETURNS ARE INSTALLED AT MAX. 20M INTERVALS.
- A STOCKPILE AREA IS TO BE ESTABLISHED IN THE LOCATION AS SHOWN OR AS SPECIFIED BY THE SITE MANAGER AND IN ACCORDANCE WITH STANDARD DRAWING SD 4-1 ON ESCP02.
- ONCE ALL OF THE ABOVE MEASURES ARE COMPLETE AND STABLE, TOPSOIL STRIPPING CAN COMMENCE AND CONSTRUCTION WORKS CAN PROCEED IN ACCORDANCE WITH THE ENGINEERING PLANS.

ONCE WORKS HAVE COMMENCED, PROGRESSIVELY UNDERTAKE THE FOLLOWING AT ALL TIMES AS REQUIRED:

- DUST SUPPRESSION TO BE CARRIED OUT AS REQUIRED TO MINIMISE THE RISK OF DUST RISE.
- IF DE-WATERING OF EXCAVATIONS/TRENCHES IS REQUIRED, THE BELOW WATER QUALITY TARGETS MUST BE ACHIEVED:
 - +50 mg/L TSS (TOTAL SUSPENDED SOLIDS)
 - PH 6.6 - 8.5; AND
 - <10 mg/L OIL AND GREASE AND NO VISIBLE TRACE.
- MONITORING, MAINTENANCE AND INSPECTIONS ARE TO BE CARRIED OUT REGULARLY BY THE SITE ENVIRONMENT MANAGER (OR THEIR REPRESENTATIVE):
 - AT LEAST WEEKLY DURING NORMAL CONSTRUCTION HOURS; AND
 - PRIOR TO FORECAST RAINFALL (SEE ABOVE); AND
 - DAILY DURING RAIN EVENTS (IF SAFE TO DO SO); AND
 - WITHIN 24 HOURS OF THE CESSATION OF A RAIN EVENT THAT CAUSES RUNOFF.
- UNDERTAKE PROGRESSIVE STABILISATION OF LANDS AS FINAL EARTHWORKS ARE COMPLETE IN EACH AREA (RATHER THAN WAITING UNTIL THE COMPLETION OF WORKS). FINAL STABILISATION IS TO BE ACHIEVED WITH:
 - TOPSOIL (MIN. 75mm THICK), SEED AND A BIODEGRADABLE SOIL POLYMER; OR
 - TOPSOIL (MIN. 75mm THICK) AND TURF; OR
 - TOPSOIL (MIN. 75mm THICK) AND HYDROMULCH.(REFER TO STANDARD DRAWINGS 4-2 AND 7-1 ON ESCP02 FOR TOPSOIL REPLACEMENT AND SEEDBED PREPARATION RESPECTIVELY)

DOCUMENT CERTIFICATION

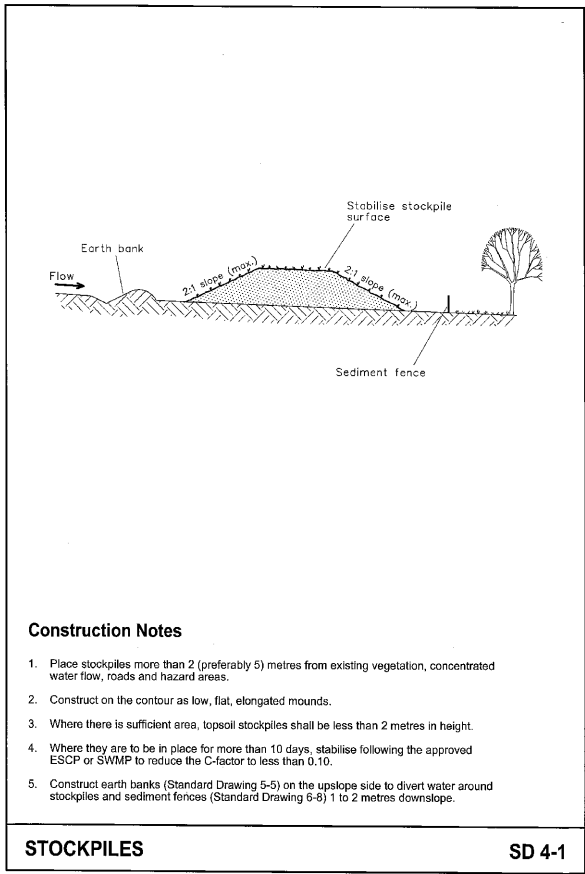
This plan has been developed based on agreed requirements as understood by SEEC at the time of engagement. It applies only to a specific task on the nominated lands. Other interpretations should not be made, including changes in scale or application to other projects. Changes to the project scope or extent might impact on the validity of this plan.

Any recommendations contained in this plan are based on an honest appraisal of the opportunities and constraints that existed at the site at the time of investigation, or as advised to us. Such recommendations are potentially subject to the limited scope and resources available. Within the confines of the above statements and to the best of my knowledge, this plan does not contain any incomplete or misleading information.

EROSION AND SEDIMENT CONTROL PLAN

0 2 4 6 8 10m
SCALE: 1:200 (A1 SHEET)

REV	DATE	DES.	DRN.	APP.	REVISION DETAILS	DRAWING STATUS	North	CLIENT	PROJECT TITLE	DRAWING TITLE	PROJECT NO.	SUB-PR NO.	DRAWING NO.	REV
						DESIGN BY DRAWN BY FINAL APPROVAL SCALE: (on A1 Original)								
						R.B. R.B. J.A. 1:200								
								THE TRUSTEE FOR 28 ADDISON PROPERTY TRUST C/- TINA DOBSON	PROPOSED 3 RESIDENCES 28 ADDISON ST GOULBURN, NSW 2580	EROSION & SEDIMENT CONTROL PLAN – SITE LAYOUT	23000111	P02	ESCP01	00
00	06/07/23	R.B.	R.B.	J.A.	FINAL ISSUE – FOR APPROVAL									
A	17/05/23	R.B.	R.B.	J.A.	DRAFT ISSUE – FOR REVIEW									

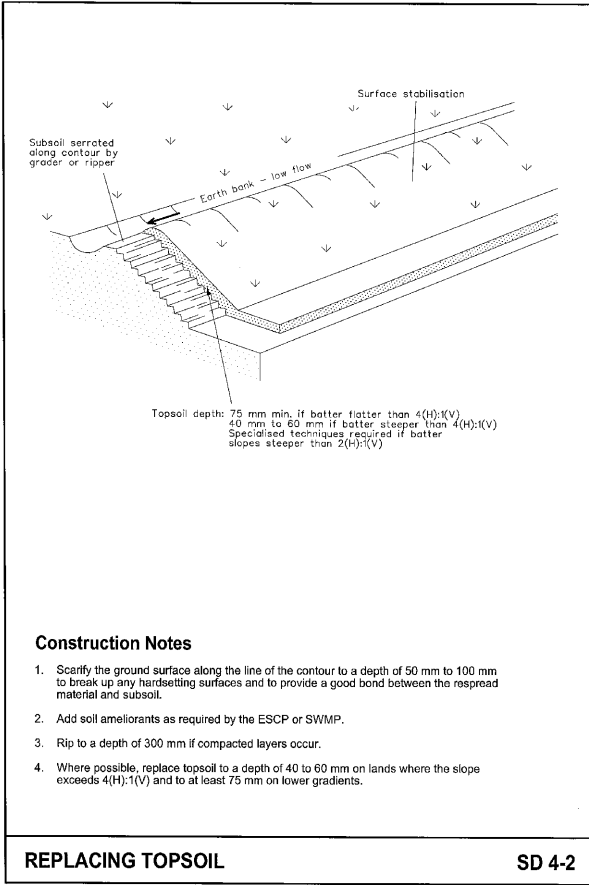


Construction Notes

- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
- Construct on the contour as low, flat, elongated mounds.
- Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
- 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.
- 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 2 metres downslope.

STOCKPILES

SD 4-1

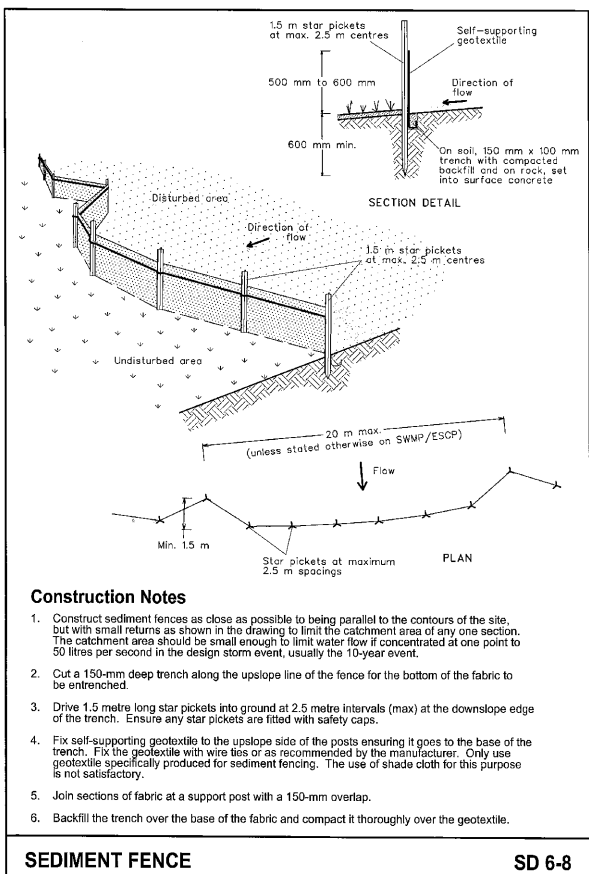


Construction Notes

- Serify the ground surface along the line of the contour to a depth of 50 mm to 100 mm to break up any hardsetting surfaces and to provide a good bond between the respread material and subsoil.
- Add soil ameliorants as required by the ESCP or SWMP.
- Rip to a depth of 300 mm if compacted layers occur.
- Where possible, replace topsoil to a depth of 40 to 60 mm on lands where the slope exceeds 4(H):1(V) and to at least 75 mm on lower gradients.

REPLACING TOPSOIL

SD 4-2

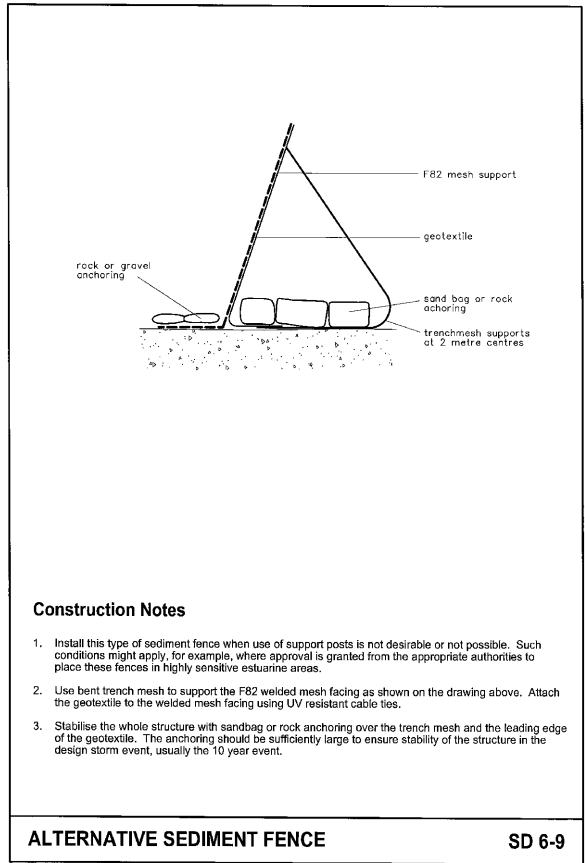


Construction Notes

- 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.
- Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
- Drive 1.5 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.
- 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.
- Join sections of fabric at a support post with a 150-mm overlap.
- Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE

SD 6-8

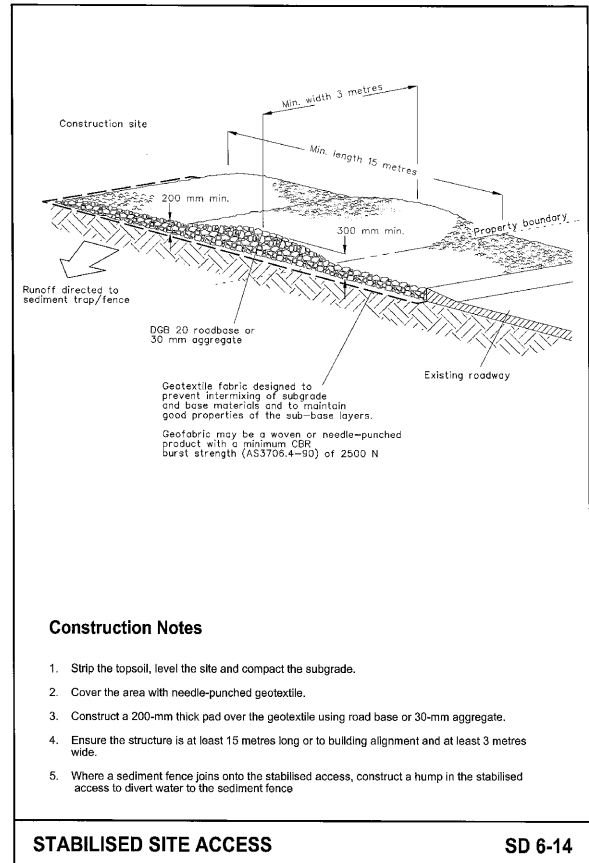


Construction Notes

- Install this type of sediment fence when use of support posts is not desirable or not possible. Such conditions might apply, for example, where approval is granted from the appropriate authorities to place these fences in highly sensitive estuarine areas.
- Use bent trench mesh to support the F82 welded mesh facing as shown on the drawing above. Attach the geotextile to the welded mesh facing using UV resistant cable ties.
- Stabilise the whole structure with sandbag or rock anchoring over the trench mesh and the leading edge of the geotextile. The anchoring should be sufficiently large to ensure stability of the structure in the design storm event, usually the 10 year event.

ALTERNATIVE SEDIMENT FENCE

SD 6-9

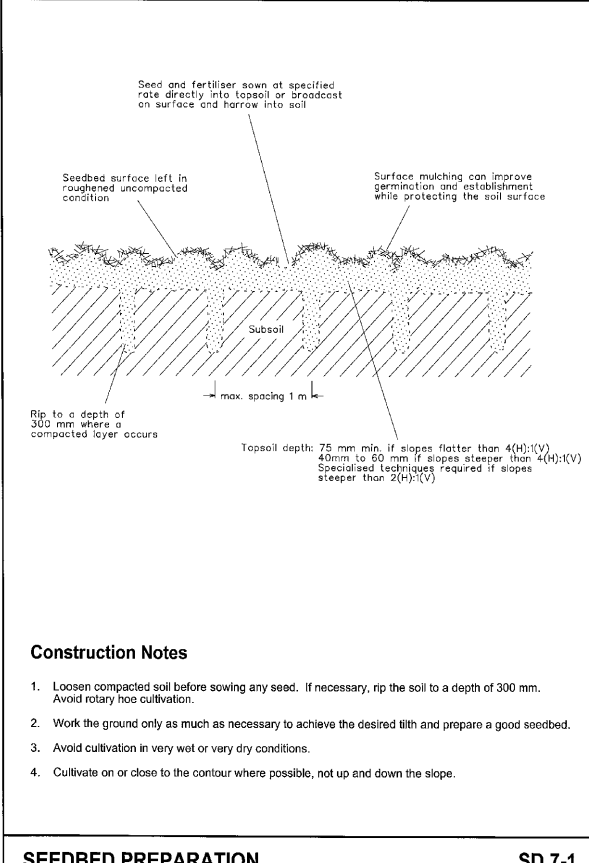


Construction Notes

- Strip the topsoil, level the site and compact the subgrade.
- Cover the area with needle-punched geotextile.
- Construct a 200-mm thick pad over the geotextile using road base or 30-mm aggregate.
- Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
- 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

- Loosen compacted soil before sowing any seed. If necessary, rip the soil to a depth of 300 mm. Avoid rotary hoe cultivation.
- Work the ground only as much as necessary to achieve the desired tillth and prepare a good seedbed.
- Avoid cultivation in very wet or very dry conditions.
- Cultivate on or close to the contour where possible, not up and down the slope.

SEEDBED PREPARATION

SD 7-1

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REV	DATE	DES.	DRN.	APP.	REVISION DETAILS	DRAWING STATUS	North
						DESIGN BY R.B.	
						DRAWN BY R.B.	
						FINAL APPROVAL J.A.	
						SCALE: (on A1 Original) NOT TO SCALE	
00	06/07/23	R.B.	R.B.	J.A.	FINAL ISSUE - FOR APPROVAL	FINAL	
A	17/05/23	R.B.	R.B.	J.A.	DRAFT ISSUE - FOR REVIEW		

Plot Date: Thursday, 6 July 2023 3:49:10 PM

CAD File Name: L:\23000111 28 Addison St, Goulburn\Drawings\23000111_P02_ESCP_REV00.dwg

CLIENT
THE TRUSTEE FOR 28 ADDISON
PROPERTY TRUST
C/- TINA DOBSON



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PROJECT TITLE
PROPOSED 3 RESIDENCES
28 ADDISON ST GOULBURN,
NSW 2580

DRAWING TITLE
EROSION & SEDIMENT CONTROL
PLAN - NOTES & STANDARD
DETAILS

PROJECT NO.	SUB-PR NO.	DRAWING NO.	REV
23000111	P02	ESCP02	00

