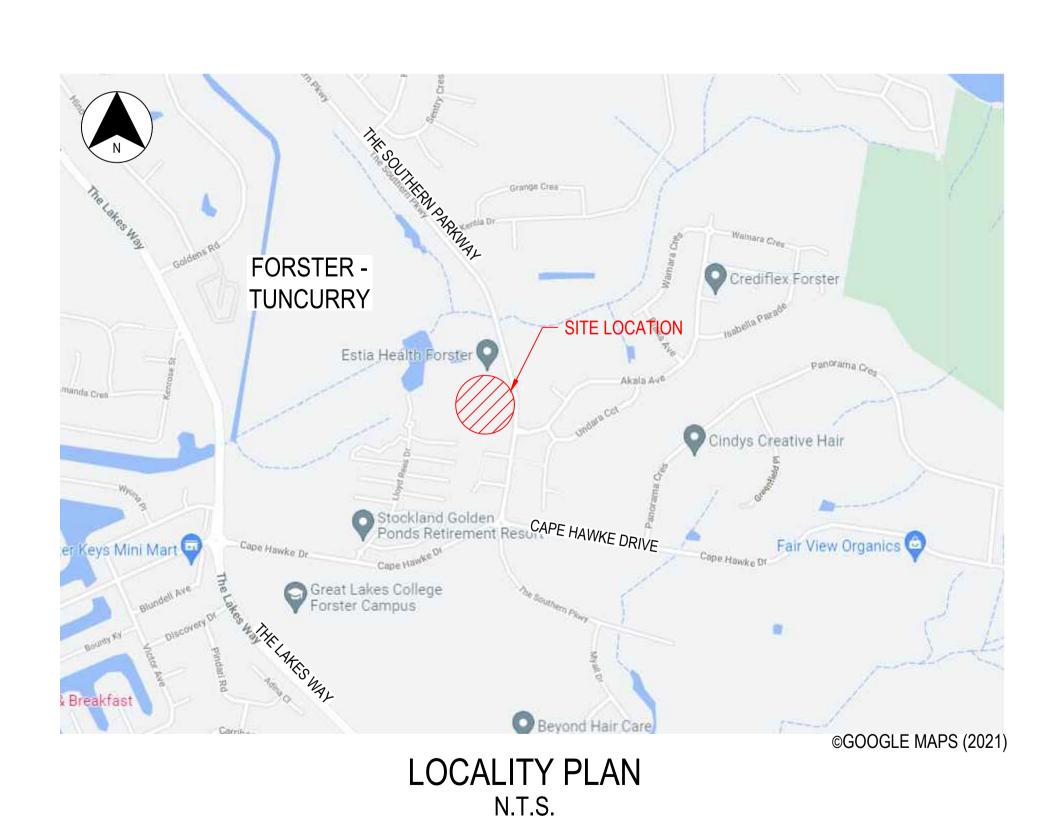


# MIDCOAST CHRISTIAN COLLEGE SOUTH FORSTER PRIMARY SCHOOL THE SOUTHERN PARKWAY, FORSTER

# WATER SENSITIVE DESIGN STRATEGY DA STAGE DESIGN



WATER SENSITIVE DESIGN PLANS							
DRAWING INDEX AND AMENDMENT REGISTER							
DDAMING No	SHEET DESCRIPTION		ISSUE				
DRAWING No.			02	03	04		
BTE-210058-SHT-WSD-001	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX		16.02.23	28.02.24	28.03.24		
BTE-210058-SHT-WSD-002	E-210058-SHT-WSD-003 EXISTING SITE PLAN		16.02.23	28.02.24	28.03.24		
BTE-210058-SHT-WSD-003			16.02.23	28.02.24	28.03.24		
BTE-210058-SHT-WSD-004			16.02.23	28.02.24	28.03.24		
BTE-210058-SHT-WSD-005 STORMWATER DRAINAGE CATCHMENT PLANS			16.02.23	28.02.24	28.03.24		

## FOR CONSTRUCTION

© COPYRIGHT BTE	CONSULTING PTY LTD	SCALES	CLIENT	CONSULTANT		SCALE	N.T.S	REVISION	04	SOUTH FORSTER PRIMARY	SCHOOL
				_		DESIGNED	ТВ	CHECKED	BS	COVER SHEET, LOCALITY PLAN AND DRA	AWING INDEX
04 TB 28.03.24	ISSUED FOR DA	BS		STANHOLD	BTE	DDAWN	TD	CHECKED	DC		
03 TB 28.02.24	ISSUED FOR DA	BS	MIDCOAST CHRISTIAN COLLEGE			DRAWN	ID	CHECKED	ВО		
02 TB 16.02.23	ISSUED FOR DA	BS		Consulting Engineer	_ CONSULTING _	APPROVED		DATE			SHEET 1 OF 5
01 TB 16.02.22	ISSUED FOR DA	BS								PROJECT NO SHEET NO	STATUS
No. BY DATE		APPD				SIGNED				BTE-210058 WSD-001	DA DESIGN

### MUSIC MODELLING

#### 1. BASIS:

- MID COAST COUNCIL GUIDELINES FOR WATER SENSITIVE DESIGN STRATEGIES, OCTOBER 2019.
- NSW MODELLING GUIDELINES, AUGUST 2021.
- MID COAST COUNCIL DEFAULT METROLOGICAL TEMPLATE, CURRENT.
- NorBE TARGET.
- MODEL VERSION 6.3.
- CONVEYANCE FLOWS 5 YEAR ARI MINOR SYSTEM, 100 YEAR ARI MAJOR SYSTEM.
- DETENTION NOT APPLICABLE.
- TREATMENT FLOWS 4EY RUNOFF.
- CATCHMENT AREA 1.4HA DEVELOPMENT.
- CATCHMENTS EXTERNAL TO THE DEVELOPMENT SITE ARE EXCLUDED BECAUSE PRE AND POST DEVELOPMENT CONDITIONS ARE SAME.
- PLANT SELECTION TO MCC STANDARD
- STORMWATER DISCHARGES AT THE EXISTING POND I.E. THE LAWFUL POINT OF DISCHARGE

#### 2. PRE DEVELOPED CRITERIA:

- REVEGETATED LAND FRACTION IMPERVIOUS 5% AND RURAL PARAMETERS.
- FRACTION IMPERVIOUS AND CATCHMENT AREA

PRE-DEVELOPED	AREA (HA)	FRACTION IMPERVIOUS	
UNDEVELOPED SITE (RURAL RESIDENTIAL) INCLUDING POND	1.181	0.05	
UNDEVELOPED SITE - UNDETAINED (RURAL RESIDENTIAL)	0.221	0.05	
TOTAL AREA SITE	1.402		

#### 3. POST DEVELOPED CRITERIA:

FRACTION IMPERVIOUS AND CATCHMENT AREAS

POST DEVELOPED	AREA (HA)	FRACTION	
POST DEVELOPED		IMPERVIOUS	
LANDSCAPE AREA (REVEGETATED) - INCLUDING POND	0.623	0.20	
CARPARK AREA (SEALED ROAD)	0.159	0.90	
ROOF AREA (ROOF)	0.398	1	
UNDEVELOPED SITE - UNDETAINED (RURAL RESIDENTIAL)	0.221	0.05	
TOTAL AREA SITE	1.402		

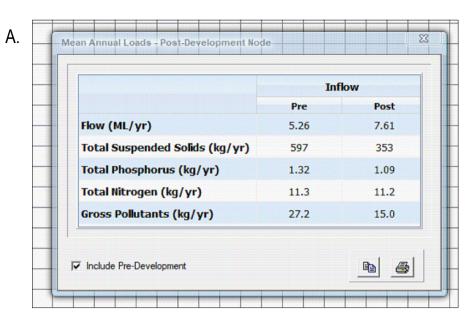
#### • DETAILS:

- RAINWATER TANKS FOR ROOF AREAS 40KL
- REUSE INTERNAL TOILET FLUSHING 9L/DAY/STUDENT (ASSUMED 350 STUDENTS). EXTERNAL EQUIVALENT TO ONE DWELLING FROM NSW MUSIC MODELLING
- GUIDELINES TABLE 6-1, 151L/DAY
- PROVIDE LITTER BASKETS IN SURFACE INLET PITS
- PROVIDE SEDIMENT PITS

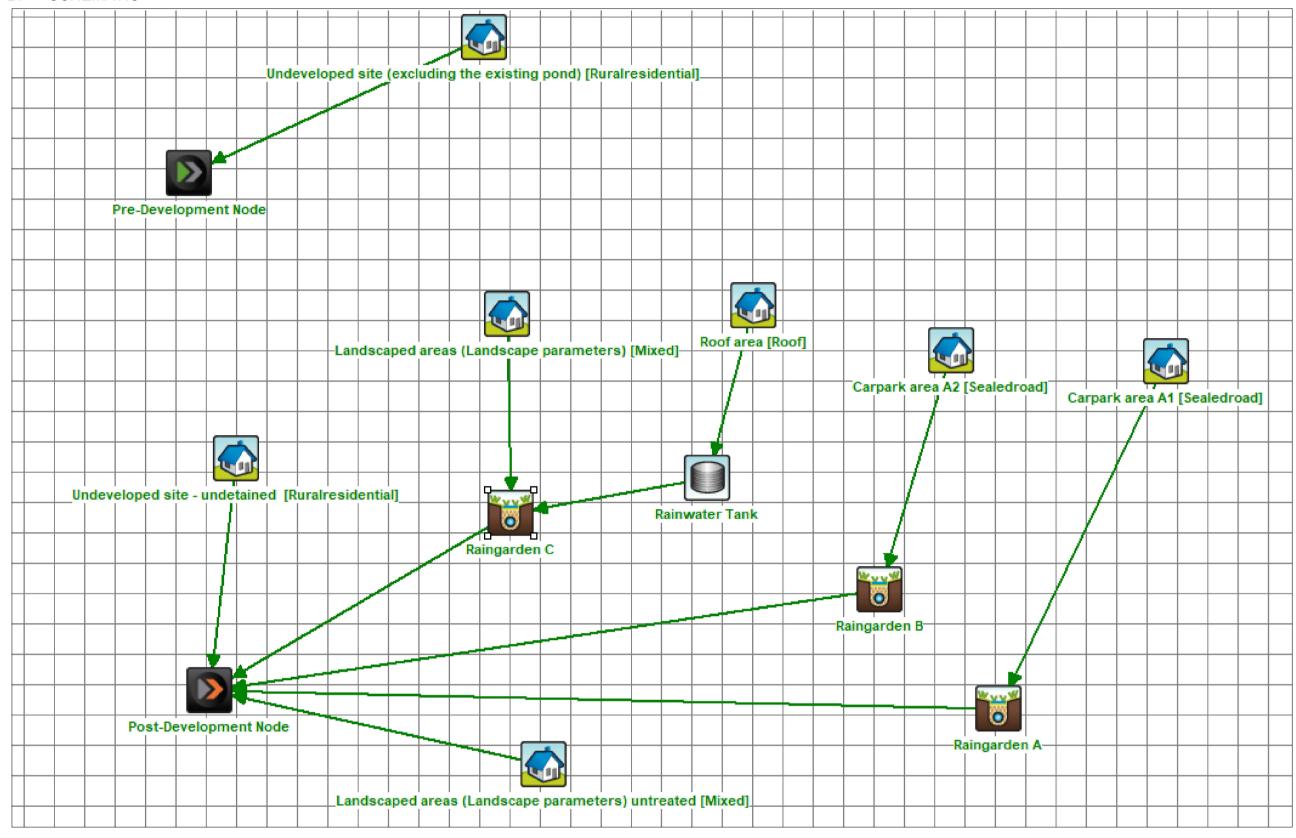
#### 4. RAINFALL RUNOFF PARAMETERS:

SOIL GROUP D FOR DEVELOPMENT SITE.

#### 5. OUTPUTS:



#### B. SCHEMATIC



#### 6. WSD MEASURES:

- A. PROTECTION DURING CONSTRUCTION:
  - A.A. REFER TO SOIL AND WATER SOLUTIONS CONSTRUCTION PHASE SOIL AND WATER MANAGEMENT PLAN.
- PRELIMINARY OPERATION AND MAINTENANCE PLAN:
- B.A. UNDERTAKE REGULAR INSPECTION OF LITTER BASKETS, SEDIMENT PITS AND BASIN VEGETATION. ADJUST FREQUENCY OF INSPECTIONS AS OPERATIONAL TREND IS ESTABLISHED.
- B.B. ALL WEATHER ACCESS IS PROVIDED.
- B.C. MAINTENANCE IS BY HAND.
- C. URBAN AMENITY AND HABITAT:
- C.A. PEDESTRIANS ARE EXCLUDED BY PIT GRATES AND HANDRAIL.
- C.B. LANDSCAPING IS PROPOSED.
- D. TREATMENT TRAIN AND CONSTRAINTS:
- D.A. RAINWATER TANKS FOR ROOF AREAS WILL SUPPLY TOILET FLUSHING, CONTRIBUTE TO WATER CONSERVATION AND OVERFLOW QUALITY TREATMENT.
- D.B. THE DEVELOPED AREA DRAINS TO THE EXISTING POND WITHIN DRAINAGE EASEMENT. AVAILABLE AREA FOR STORMWATER TREATMENT IS CONSTRAINED HENCE UTILISATION OF THE BIORETENTION BASINS.

# FOR CONSTRUCTION

SHEET 2 OF 5

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04	ТВ	28.03.24	ISSUED FOR DA		BS	
03	ТВ	28.02.24	ISSUED FOR DA		BS	
02	ТВ	16.02.23	ISSUED FOR DA		BS	
01	ТВ	16.02.22	ISSUED FOR DA		BS	
No.	BY	DATE	DESCRIPTION		APPD	

MIDCOAST CHRISTIAN COLLEGE

CLIENT



CONSULTANT



	SCALE	N.T.S	REVISION	04	
	DESIGNED	ТВ	CHECKED	BS	MUSIC
	DRAWN	ТВ	CHECKED	BS	
	APPROVED		DATE		
	SIGNED				PROJECT NO RTF-21

SOUTH FORSTER PRIMARY SCHOOL
MUSIC MODELLING AND NOTES

PROJECT NO SHEET NO STATUS DA DESIGN



