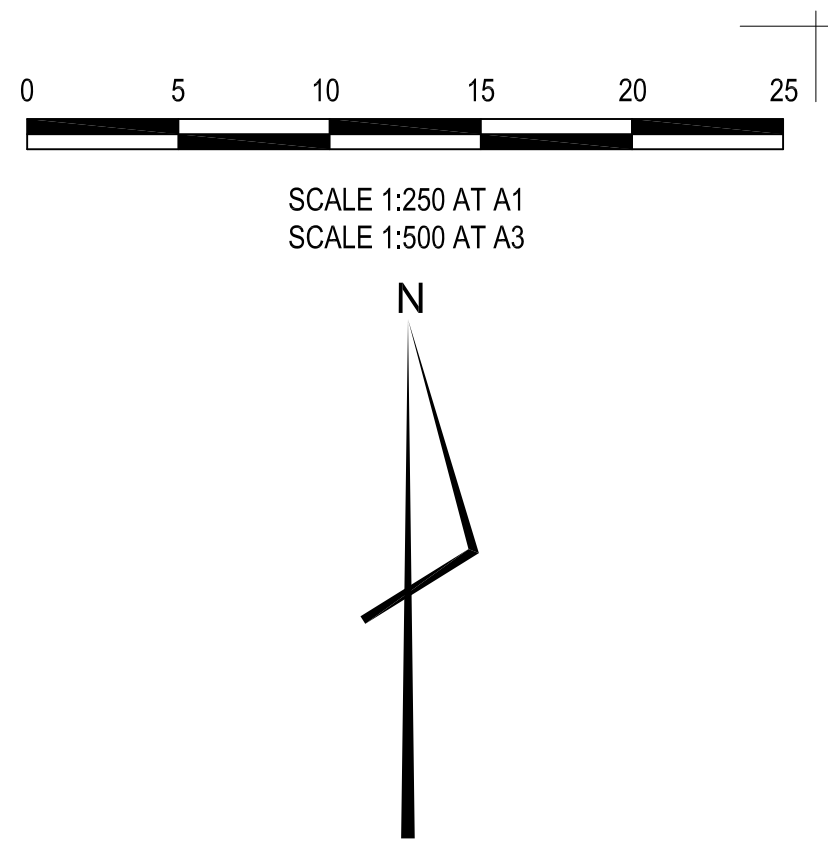
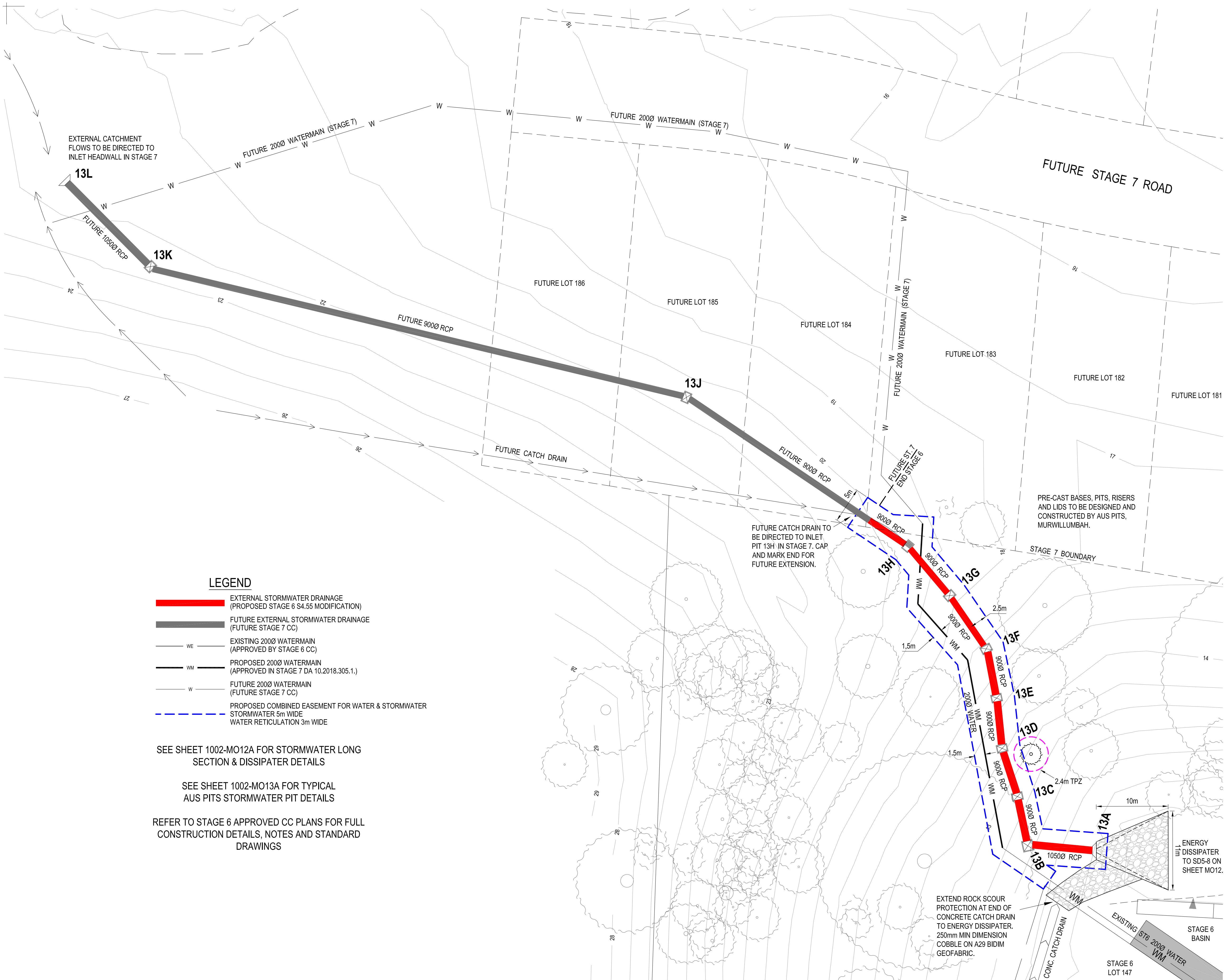




- LEGEND**
- EXTERNAL STORMWATER DRAINAGE (PROPOSED STAGE 6 S4.55 MODIFICATION)
 - FUTURE EXTERNAL STORMWATER DRAINAGE (FUTURE STAGE 7 CC)
 - EXISTING 2000 WATERMAIN (APPROVED BY STAGE 6 CC)
 - PROPOSED 2000 WATERMAIN (APPROVED IN STAGE 7 DA 10.2018.305.1.)
 - FUTURE 2000 WATERMAIN (FUTURE STAGE 7 CC)
 - PROPOSED COMBINED EASEMENT FOR WATER & STORMWATER
 - STORMWATER 5m WIDE
 - WATER RETICULATION 3m WIDE

SEE SHEET 1002-MO12A FOR STORMWATER LONG SECTION & DISSIPATER DETAILS

SEE SHEET 1002-MO13A FOR TYPICAL AUS PITS STORMWATER PIT DETAILS

REFER TO STAGE 6 APPROVED CC PLANS FOR FULL CONSTRUCTION DETAILS, NOTES AND STANDARD DRAWINGS

DIVERT UP SLOPE FLOWS AROUND WORK AREA. INSTALL SEDIMENT FENCE & STRAW BALES DOWNSLOPE OF TRENCHES.

B	SHIFT 13D TO AVOID APZ	WF	WF	08.10.19	
A	COUNCIL SUBMISSION	WF	WF	19.08.19	
Iss	Description	Des	Drw	Date	Appd

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BAYVIEW LAND DEVELOPMENT P/L
TALLOWOOD RIDGE - STAGE 6
SECTION 4.55 MODIFICATION OF
DEVELOPMENT CONSENT 10.2017.402.3

EXTERNAL STORMWATER DRAINAGE PLAN

1.0m FINISHED CONTOURS

Scale: 1:250 AT A1, 1:500 AT A3 CAD file: 1002-MO11B.dwg
Datum: AHD CivilCAD file: 1002-ENG Stage 7.ccx



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Sheet No.

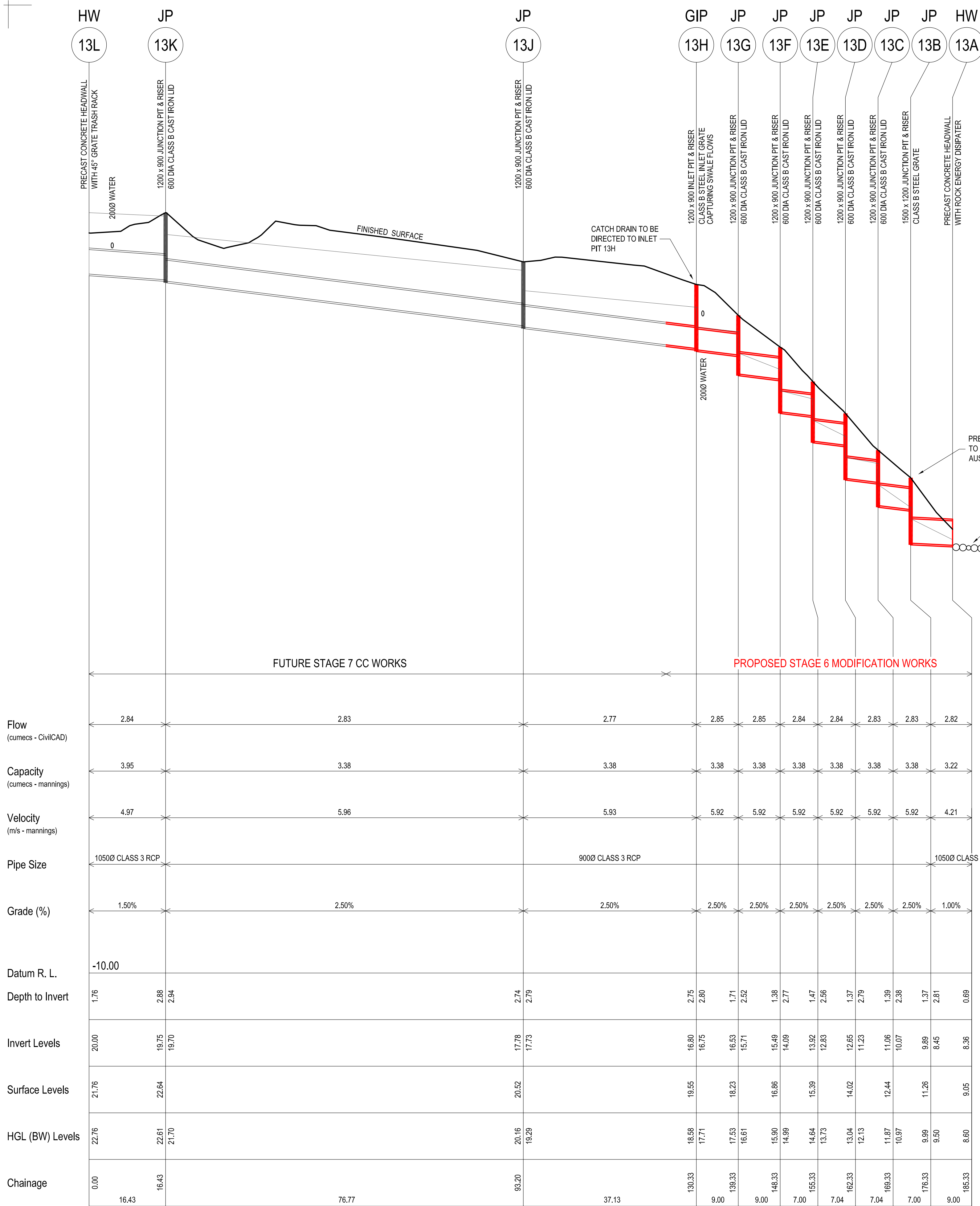
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Dwg. No.

1002-MO11

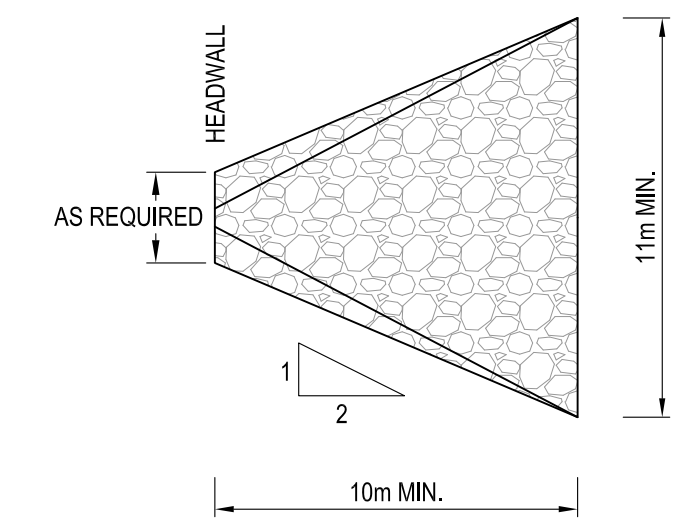
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B

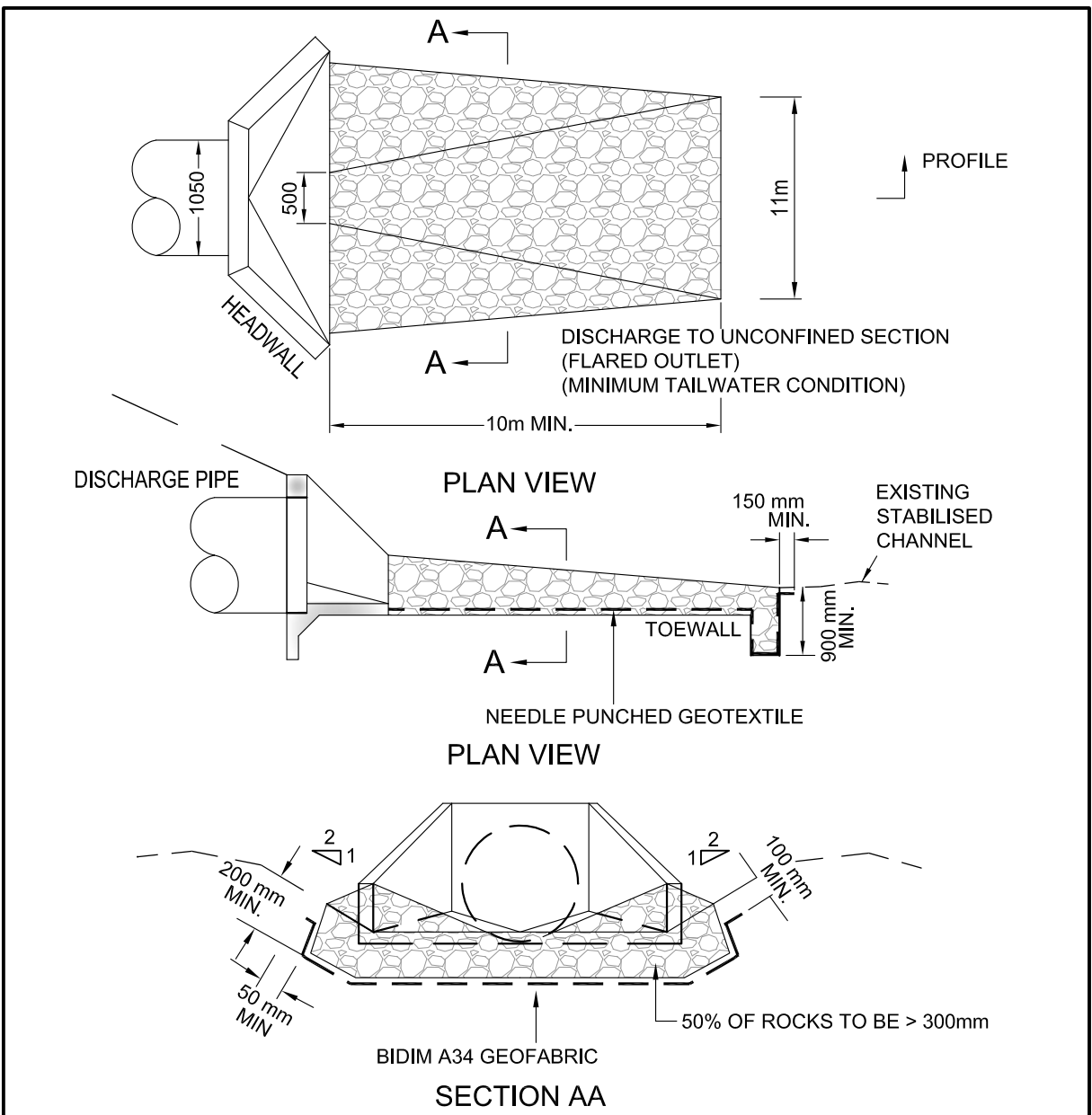


STORMWATER LONG SECTION : LINE 13
SCALE Horizontal 1:500 Vertical 1:100 at A1

DRAINAGE CALCULATION SHEET																																									
PIT	ARI	SUB-CATCHMENT					INLET DESIGN							TOTAL CATCHMENT					DESIGN					HEAD LOSS & PARTIAL FLOW					HYDRAULIC CHECK												
		TIME OF CONCENTRATION	AREA	INTENSITY	C-AREA	OVERLAND FLOW	TOTAL GUTTER	EFFECTIVE GUTTER	WIDTH	DEPTH	VELOCITY	TOTAL INFLOW	FLOW INTO PIT	BYPASS	BYPASS PIT	TIME OF CONCENTRATION	INTENSITY	SUM C/A	CUMULATIVE FLOW	NUMBER OF PIPES	PIPE CLASS	NOMINAL DIAMETER	PIPE LENGTH	PIPE GRADE	HGL GRADE	MANNING'S n	ROUGHNESS	SURCHARGE	HGL GRADE (BACKWATER)		Q/A	K FACTOR	PIPE VELOCITY (Mannings)	PARTIAL DEPTH (Mannings)	CAPACITY (Mannings)	DIS HGL BACKWATER	PIT LOSS	PIPE LOSS	TOTAL LOSS	US HGL	GUTTER LEVEL
																													%	m/s											
13L	100	30	8.710	140	7.31	2841	2841	2841	4.00	250	2.50	2841	2841	0	-	30.0	140	7.198	2841	1	3	1050	16.43	1.50	0.9	0.011	0.60	0.9	3.28	2.98	4.97	0.66	3950	22.610	1.633	0.149	1.782	22.759	21.765		
13K	100	-	-	-	-	-	-	-	-	-	-	-	-	-	30.3	140	7.198	2828	1	3	900	76.77	2.50	2.0	0.011	0.60	2.0	4.45	0.90	5.96	0.63	3380	20.161	0.907	1.542	2.449	21.703	22.637			
13J	100	-	-	-	-	-	-	-	-	-	-	-	-	-	31.6	138	7.198	2769	1	3	900	37.13	2.50	1.9	0.011	0.60	1.9	4.35	0.90	5.93	0.62	3380	18.577	0.869	0.715	1.584	19.292	20.524			
13H	100	14	0.360	200	0.30	165	165	165	0.47	111	4.14	165	165	0	-	32.2	137	7.495	2855	1	3	900	9.00	2.50	2.0	0.011	0.60	2.0	4.49	0.84	5.92	0.63	3380	17.530	0.862	0.184	1.046	17.715	19.553		
13G	100	-	-	-	-	-	-	-	-	-	-	-	-	-	32.3	137	7.495	2848	1	3	900	9.00	2.50	2.0	0.011	0.60	2.0	4.48	0.90	5.92	0.63	3380	15.905	0.919	0.183	1.103	16.088	18.231			
13F	100	-	-	-	-	-	-	-	-	-	-	-	-	-	32.5	136	7.495	2841	1	3	900	7.00	2.50	2.0	0.011	0.60	2.0	4.47	0.90	5.92	0.63	3380	14.642	0.915	0.142	1.057	14.784	16.865			
13E	100	-	-	-	-	-	-	-	-	-	-	-	-	-	32.6	136	7.495	2836	1	3	900	7.00	2.50	2.0	0.011	0.60	2.0	4.46	0.90	5.92	0.63	3380	13.038	0.912	0.141	1.053	13.180	15.389			
13D	100	-	-	-	-	-	-	-	-	-	-	-	-	-	32.7	136	7.495	2831	1	3	900	7.00	2.50	2.0	0.011	0.60	2.0	4.45	0.90	5.92	0.63	3380	11.870	0.908	0.141	1.049	12.011	14.020			
13C	100	-	-	-	-	-	-	-	-	-	-	-	-	-	32.8	136	7.495	2826	1	3	900	7.00	2.50	2.0	0.011	0.60	2.0	4.44	0.90	5.92	0.63	3380	9.987	0.905	0.140	1.045	10.127	12.444			
13B	100	-	-	-	-	-	-	-	-	-	-	-	-	-	32.9	135	7.495	2821	1	3	1050	9.00	1.00	0.9	0.011	0.60	0.9	3.26	0.90	4.21	0.76	3220	8.600	0.487	0.080	0.567	8.680	11.260			
13A	100	-	-	-	-	-	-	-	-	-	-	-	-	-	33.1	135	7.495	2814	1	3	-	-	-	-	0.011	0.60	0.0	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000	0.000	0.000	9.047			



DISSIPATER DIMENSIONS
Not to Scale



- CONSTRUCTION NOTES
1. COMPACT THE SUBGRADE FILL TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL.
 2. PREPARE A SMOOTH, EVEN FOUNDATION FOR THE STRUCTURE THAT WILL ENSURE THAT THE NEEDLE PUNCHED GEOTEXTILE DOES NOT SUSTAIN SERIOUS DAMAGE WHEN COVERED WITH ROCK.
 3. SHOULD ANY MINOR DAMAGE TO THE GEOTEXTILE OCCUR, REPAIR IT BEFORE SPREADING ANY AGGREGATE. FOR REPAIRS, PATCH ONE PIECE OF FABRIC OVER THE DAMAGE, MAKING SURE THAT ALL JOINTS AND PATCHES OVERLAP MORE THAN 300mm.
 4. 50% OF ROCKS TO BE GREATER THAN 300mm. ROCKS WITH DIAMETER GREATER THAN 600mm TO BE PLACED IN RANDOM PATTERN. MINIMUM COBBLE DIAMETER TO BE 75mm.
 5. ENSURE THAT ANY CONCRETE OR RIPRAP USED FOR THE ENERGY DISSIPATER OR THE OUTLET PROTECTION CONFORMS TO THE GRADING LIMITS SPECIFIED ON THE SWMP.

ENERGY DISSIPATER SD 5-8

B	SHIFT 13D TO AVOID APZ	WF	WF	08.10.19
A	COUNCIL SUBMISSION	WF	WF	19.08.15
Iss	Description	Des	Drw	Date Appd

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BAYVIEW LAND DEVELOPMENT P/L TALLOWOOD RIDGE - STAGE 6 SECTION 4.55 MODIFICATION OF DEVELOPMENT CONSENT 10.2017.402.3

STORMWATER LONG SECTIONS LINES 13 EXTERNAL CATCHMENT

Scale: As shown at A1 CAD file: 1002-MO12B.dwg
Datum: AHD CivilCAD file: 1002-ENG Stage 7.ccx



Subdivision Design Civil Engineering Town Planning Project Management

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Dwg. No. Issue

1002-MO12 B