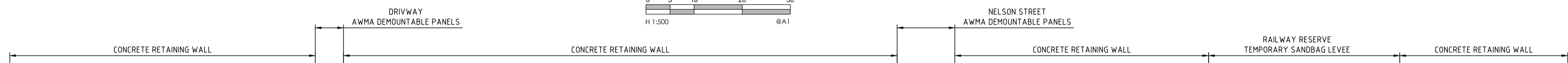
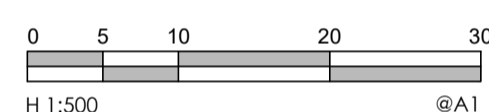
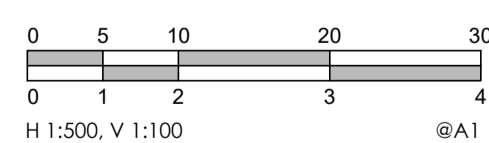


LAYOUT PLAN



CHAINAGE	EXISTING SURFACE	DESIGN CENTERLINE	CUT / FILL CL
0.00	106.51	107.67	+1.161
10.00	106.85	107.68	+0.832
20.00	106.72	107.69	+0.972
24.21	106.78	107.69	+0.917
28.79	106.71	107.70	+0.993
30.00	106.72	107.70	+0.985
40.00	106.66	107.71	+1.048
50.00	106.70	107.72	+1.017
60.00	106.71	107.73	+1.019
63.74	106.70	107.73	+1.035
69.74	106.67	107.74	+1.069
70.00	106.67	107.74	+1.070
80.00	106.68	107.75	+1.072
90.00	106.62	107.76	+1.137
100.00	106.68	107.77	+1.086
110.00	106.63	107.78	+1.149
120.00	106.65	107.79	+1.142
130.00	106.65	107.80	+1.147
140.00	106.68	107.81	+1.130
150.00	106.69	107.82	+1.130
160.00	106.72	107.83	+1.111
170.00	106.67	107.84	+1.166
180.00	106.73	107.85	+1.118
182.55	106.90	107.85	+0.951
184.71	106.89	107.86	+0.962
190.00	106.87	107.86	+0.993
196.71	106.89	107.87	+0.980
200.00	106.87	107.87	+1.004
204.95	106.86	107.88	+1.012
210.00	106.88	107.88	+1.000
220.00	106.92	107.88	+0.959
230.00	106.91	107.88	+0.971
240.00	106.91	107.88	+0.969
249.46	106.92	107.88	+0.961
250.00	106.92	107.88	+0.962
260.00	107.04	107.88	+0.841
270.00	107.18	107.88	+0.702
280.00	107.02	107.88	+0.856
289.20	107.35	107.88	+0.527
290.00	107.36	107.88	+0.521
300.00	107.25	107.88	+0.629
310.00	107.16	107.88	+0.723
320.00	107.13	107.88	+0.757
324.10	107.23	107.88	+0.648

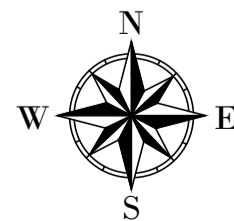
LONGITUDINAL SECTION



REV	REF	DESCRIPTION	DATE	APVD
I	-	ISSUED FOR TENDER	05/04/2024	S.G.
H	-	DETAILED DESIGN	21/12/2023	S.G.
G	-	DETAILED DESIGN	03/09/2021	S.G.
F	-	ISSUED FOR DISCUSSION	06/07/2021	K.T.
E	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
D	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
C	-	ISSUED FOR DESIGN APPROVAL	06/09/2019	K.T.
B	-	ISSUED FOR INFORMATION	24/06/2019	K.T.
A	-	ISSUED FOR INFORMATION	16/05/2019	K.T.



abr: 37 160 560 556
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 w: cafconsulting.com.au



SCALE: 1:500 @ A1

DESIGNED: N.Y. 08/04/2019 APPROVED: S.G.
 DRAWN: N.Y. 08/04/2019 22/12/2023
 CHECKED: S.G. 16/05/2019

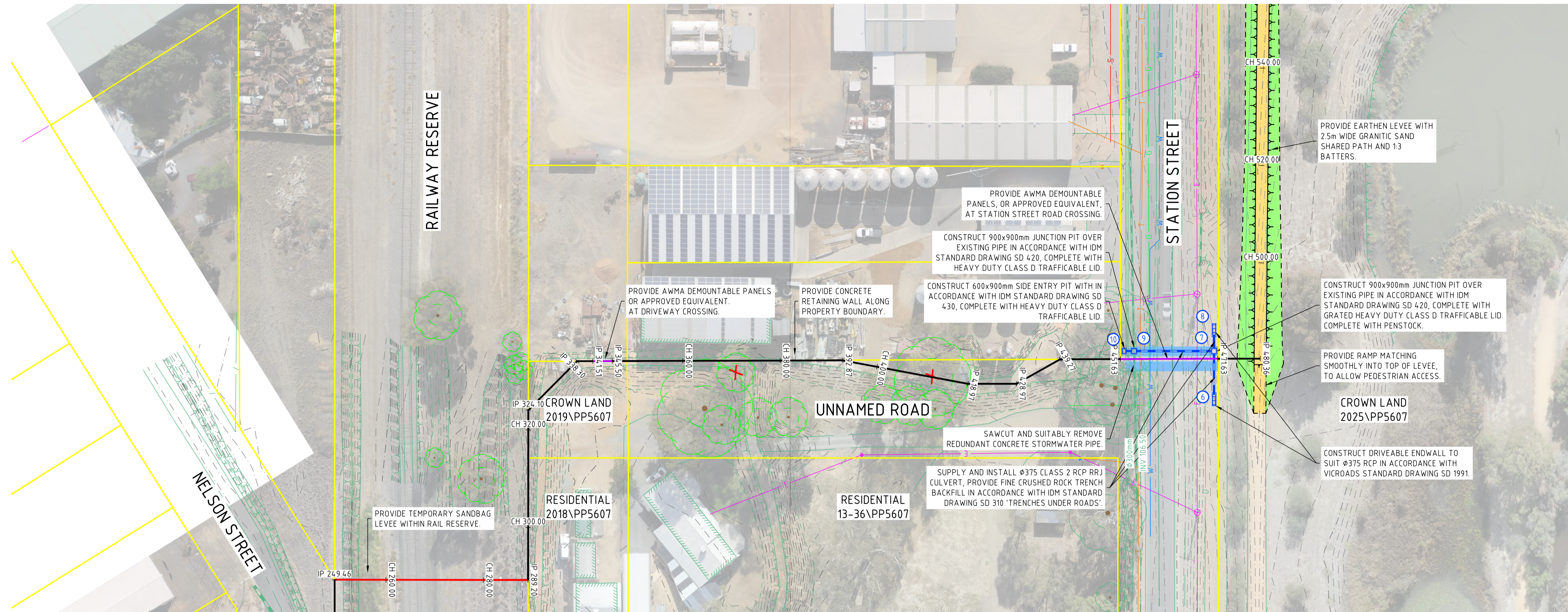
TENDER

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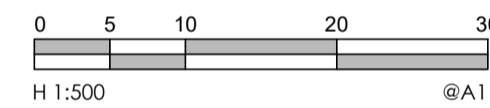
MOIRA SHIRE COUNCIL
 NUMURKAH FLOOD PLAN
 LEVEE BANK SURVEY & DESIGN
 3112-R02-01 - NORTHERN LEVEE STAGE 1
 DRAWING NO.: CAD19/8 REVISION: I
 PROJECT NO.: F13/1427/001 SHEET NO.: 1

SEE CONTINUATION
 DWG No. 3112-R02-2



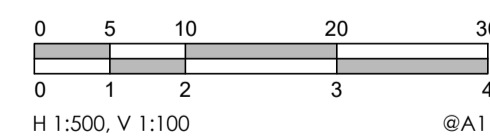
SEE CONTINUATION
A DWG No. 3112-R02-1 A

LAYOUT PLAN



	CONCRETE RETAINING WALL										STATION STREET AWMA DEMOUNTABLE PANELS										EARTHEN LEVEE 2.5m WIDE CREST WITH GRANITIC SAND SHARED PATH AND 1:3 BATTERS BOTH SIDES												
CUT / FILL CL	-0.648	-0.137	+0.216	-0.211	-0.207	-0.198	-0.190	+0.152	-0.179	-0.535	-0.562	-0.582	-0.528	+0.535	-0.594	-0.611	-0.487	-0.474	-0.351	-0.367	-0.947	+1.019	-0.830	-0.786	-0.817	-0.980	-0.875	-0.766	-0.691	-0.624	-0.570	-0.528	
DESIGN CENTERLINE	107.88	107.88	107.88	107.88	107.88	107.88	107.88	107.88	107.88	107.88	107.89	107.89	107.89	107.89	107.89	107.89	107.89	107.89	107.89	107.89	107.89	107.89	107.89	107.89	107.89	108.04	108.04	108.04	108.04	108.04	108.04	108.04	
WATER LEVEL	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.57	107.59	107.59	107.59	107.59	107.59	107.59	107.59		
EXISTING SURFACE	107.23	107.75	107.67	107.67	107.68	107.68	107.69	107.73	107.71	107.35	107.32	107.30	107.36	107.35	107.54	107.52	107.54	107.54	107.54	107.54	106.94	106.87	107.06	107.10	107.07	107.06	107.17	107.28	107.35	107.42	107.47		
CHAINAGE	324.10	330.00	338.30	344.00	344.51	345.50	350.00	360.00	370.00	380.00	390.00	392.87	400.00	410.00	418.97	420.00	428.97	430.00	439.27	440.00	450.00	451.63	460.00	470.00	471.63	480.00	480.36	490.00	500.00	510.00	520.00	530.00	540.00

LONGITUDINAL SECTION



REV	REF	DESCRIPTION	DATE	APVD
I	-	ISSUED FOR TENDER	05/04/2024	S.G.
H	-	DETAILED DESIGN	21/12/2023	S.G.
G	-	DETAILED DESIGN	03/09/2021	S.G.
F	-	ISSUED FOR DISCUSSION	06/07/2021	K.T.
E	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
D	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
C	-	ISSUED FOR DESIGN APPROVAL	06/09/2019	K.T.
B	-	ISSUED FOR INFORMATION	24/06/2019	K.T.
A	-	ISSUED FOR INFORMATION	16/05/2019	K.T.



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w: cafconsulting.com.au



SCALE: 1:500 @ A1

DESIGNED: N.Y. 08/04/2019
DRAWN: N.Y. 08/04/2019
CHECKED: S.G. 16/05/2019

APPROVED: S.G. 22/12/2023

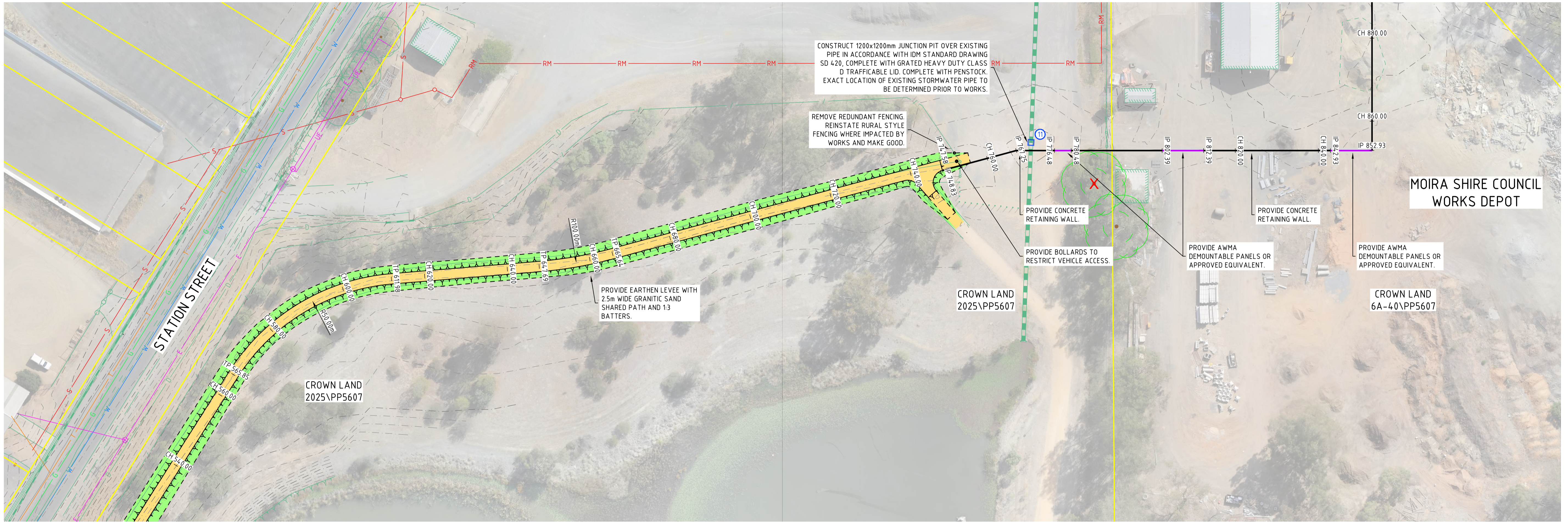
TENDER

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MOIRA SHIRE COUNCIL
NUMURKAH FLOOD PLAN
LEVEE BANK SURVEY & DESIGN
3112-R02-02 - NORTHERN LEVEE STAGE 1
DRAWING NO.: CAD19/8
PROJECT NO.: F13/1427/001

REVISION: I
SHEET NO.: 2

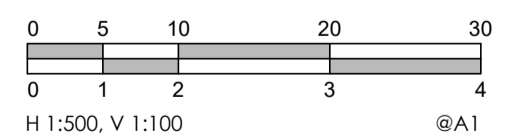


LAYOUT PLAN



CHAINAGE	EXISTING SURFACE	WATER LEVEL	DESIGN CENTERLINE	CUT / FILL CL
540.00	107.52	107.60	108.04	+0.528
550.00	107.56	107.60	108.05	+0.487
560.00	107.60	107.60	108.05	+0.450
565.85	107.59	107.60	108.05	+0.452
570.00	107.59	107.60	108.05	+0.459
580.00	107.61	107.60	108.05	+0.433
590.00	107.60	107.60	108.05	+0.447
600.00	107.59	107.60	108.05	+0.454
610.00	107.64	107.60	108.05	+0.409
611.98	107.64	107.60	108.05	+0.404
620.00	107.65	107.60	108.05	+0.401
630.00	107.66	107.60	108.05	+0.390
640.00	107.66	107.60	108.05	+0.387
647.69	107.66	107.60	108.05	+0.387
650.00	107.66	107.60	108.05	+0.394
660.00	107.58	107.60	108.05	+0.467
665.64	107.55	107.60	108.05	+0.499
670.00	107.52	107.60	108.05	+0.526
680.00	107.54	107.60	108.05	+0.515
690.00	107.55	107.60	108.05	+0.504
700.00	107.54	107.60	108.05	+0.513
710.00	107.55	107.60	108.05	+0.501
720.00	107.60	107.60	108.05	+0.453
730.00	107.60	107.60	108.05	+0.450
740.00	107.60	107.60	108.05	+0.457
747.58	107.57	107.60	108.05	+0.487
748.83	107.62	107.60	108.05	+0.437
750.00	107.61	107.60	108.05	+0.441
760.00	107.51	107.60	108.05	+0.542
767.25	107.51	107.60	108.05	+0.548
770.00	107.52	107.60	108.05	+0.531
776.48	107.49	107.60	108.05	+0.566
780.00	107.44	107.61	108.05	+0.609
780.48	107.44	107.61	108.05	+0.618
790.00	107.30	107.61	108.05	+0.753
800.00	107.37	107.61	108.05	+0.681
802.39	107.34	107.61	108.05	+0.710
810.00	107.35	107.61	108.05	+0.707
812.39	107.36	107.61	108.05	+0.698
820.00	107.35	107.61	108.05	+0.699
830.00	107.42	107.61	108.05	+0.638
840.00	107.42	107.61	108.05	+0.630
842.93	107.41	107.62	108.05	+0.641
850.00	107.38	107.63	108.05	+0.676
852.93	107.36	107.64	108.05	+0.689
860.00	107.42	107.65	108.05	+0.631
870.00	107.51	107.71	108.05	+0.538
880.00	107.60	107.74	108.05	+0.454

LONGITUDINAL SECTION

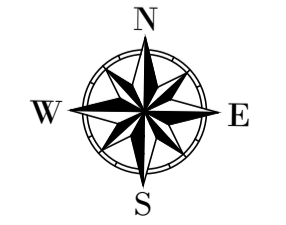


REV	REF	DESCRIPTION	DATE	APVD
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I	-	ISSUED FOR TENDER	05/04/2024	S.G.
H	-	DETAILED DESIGN	21/12/2023	S.G.
G	-	DETAILED DESIGN	03/09/2021	S.G.
F	-	ISSUED FOR DISCUSSION	06/07/2021	K.T.
E	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
D	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
C	-	ISSUED FOR DESIGN APPROVAL	06/09/2019	K.T.
B	-	ISSUED FOR INFORMATION	24/06/2019	K.T.
A	-	ISSUED FOR INFORMATION	16/05/2019	K.T.



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w: cafconsulting.com.au



SCALE: 1:500 @ A1

DESIGNED:	N.Y.	08/04/2019	APPROVED:	S.G.
DRAWN:	N.Y.	08/04/2019		22/12/2023
CHECKED:	S.G.	16/05/2019		

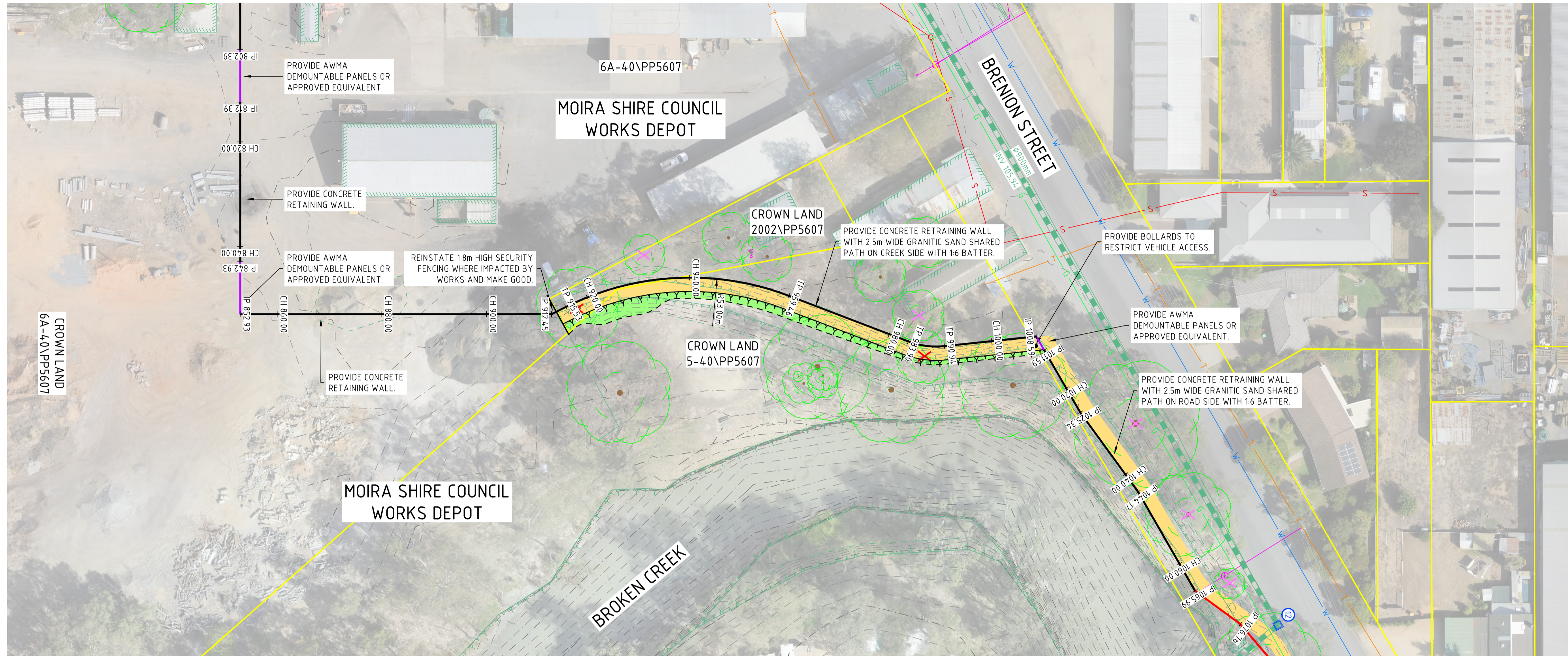
TENDER

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MOIRA SHIRE COUNCIL
NUMURKAH FLOOD PLAN
LEVEE BANK SURVEY & DESIGN
3112-R02-03 - NORTHERN LEVEE STAGE 1
DRAWING NO.: CAD19/8
PROJECT NO.: F13/14/27/001
REVISION: 1
SHEET NO.: 3

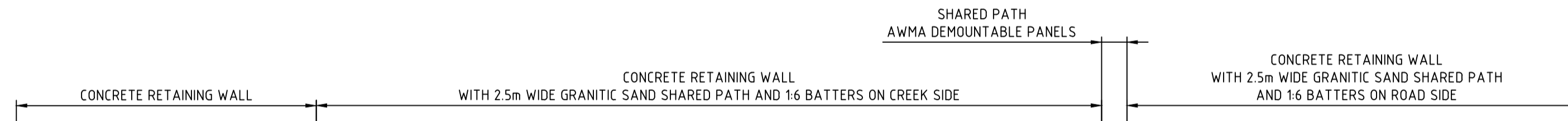
SEE CONTINUATION
DWG No. 3112-R02-3



LAYOUT PLAN

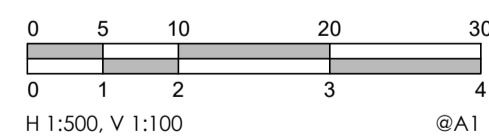


SEE CONTINUATION
DWG No. 3112-R02-5



	0.00%		0.01%		0.11%																										
CUT / FILL CL	+0.454	-0.480	-0.600	+0.614	-0.547	-0.526	-0.538	-0.550	-0.621	+0.690	-0.889	+1.036	+1.096	+1.000	-1.116	+1.122	+1.085	+1.101	+1.097	+1.063	-0.925	-0.880	-0.755	-0.548	-0.567	-0.613	-0.670	-0.665	-0.666	-0.781	-0.802
DESIGN CENTERLINE	108.05	108.05	108.05	108.05	108.05	108.05	108.05	108.05	108.05	108.05	108.05	108.05	108.06	108.06	108.06	108.06	108.06	108.06	108.06	108.06	108.06	108.06	108.06	108.06	108.06	108.06	108.06	108.06	108.07	108.08	108.09
WATER LEVEL	107.74	107.75	107.75	107.75	107.75	107.75	107.75	107.75	107.75	107.75	107.75	107.74	107.74	107.75	107.75	107.75	107.75	107.75	107.75	107.75	107.75	107.75	107.75	107.75	107.75	107.75	107.75	107.76	107.77	107.78	107.79
EXISTING SURFACE	107.60	107.57	107.45	107.44	107.53	107.51	107.50	107.43	107.36	107.16	107.02	106.96	106.96	106.97	106.96	106.96	106.96	106.96	106.96	106.96	106.96	106.96	106.96	106.96	106.96	106.96	106.96	106.96	106.96	106.96	106.96
CHAINAGE	880.00	890.00	900.00	910.00	912.45	913.57	914.84	915.53	920.00	930.00	940.00	950.00	959.46	960.00	970.00	980.00	983.90	990.00	990.94	1000.00	1008.59	1010.00	1011.59	1020.00	1025.34	1030.00	1040.00	1044.17	1050.00	1060.00	1065.99

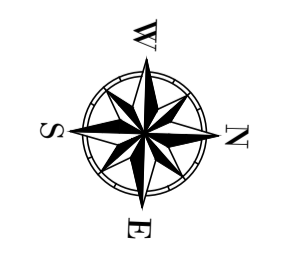
LONGITUDINAL SECTION



I	-	ISSUED FOR TENDER	05/04/2024	S.G.
H	-	DETAILED DESIGN	21/12/2023	S.G.
G	-	DETAILED DESIGN	03/09/2021	S.G.
F	-	ISSUED FOR DISCUSSION	06/07/2021	K.T.
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C	-	ISSUED FOR DESIGN APPROVAL	06/09/2019	K.T.
B	-	ISSUED FOR INFORMATION	24/06/2019	K.T.
A	-	ISSUED FOR INFORMATION	16/05/2019	K.T.
REV	REF	DESCRIPTION	DATE	APVD
1				
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12				

CAF CONSULTING

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DESIGNED:	N.Y.	08/04/2019	APPROVED:	S.G.
DRAWN:	N.Y.	08/04/2019		22/12/2023
CHECKED:	S.G.	16/05/2019		

TENDER

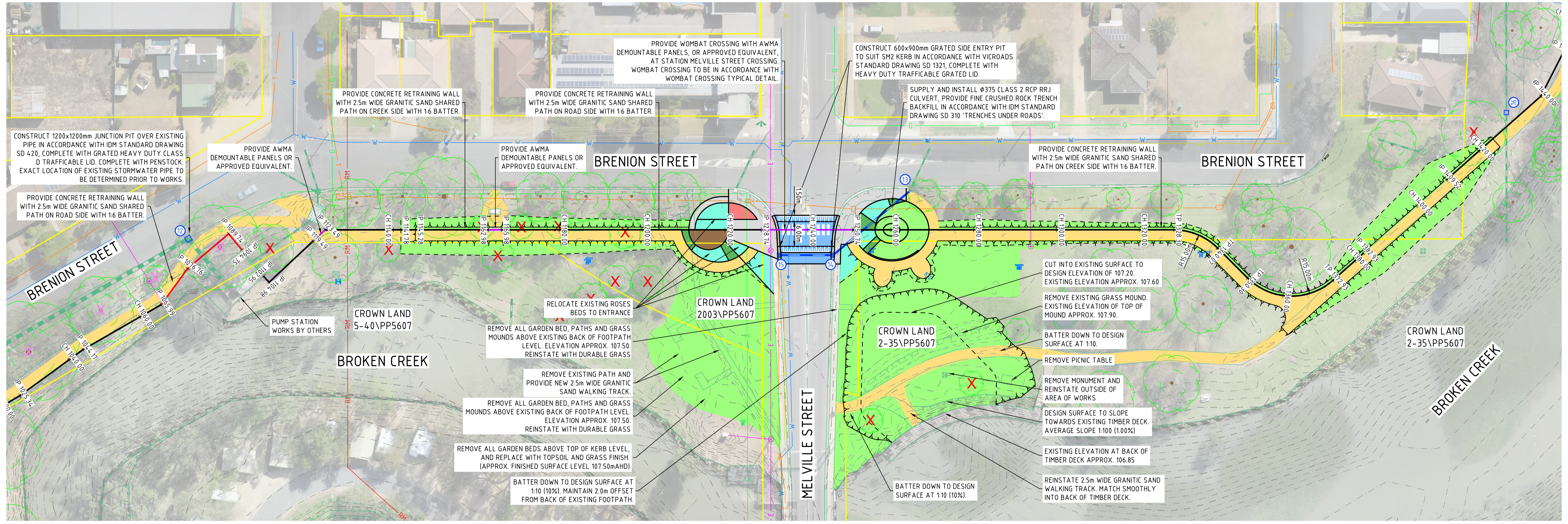
SCALE: 1:500 @ A1



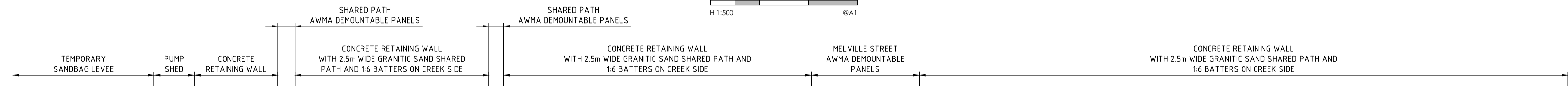
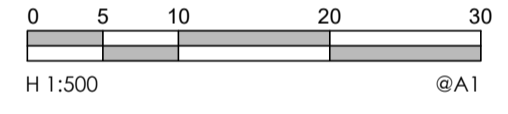
MOIRA SHIRE COUNCIL

NUMURKAH FLOOD PLAN
LEVEE BANK SURVEY & DESIGN
3112-R02-04 - NORTHERN LEVEE STAGE 1
DRAWING NO.: CAD19/8
PROJECT NO.: F13/1427/001

REVISION: 1
SHEET NO.: 4

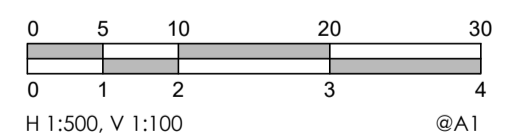


LAYOUT PLAN



CHAINAGE	EXISTING SURFACE	DESIGN CENTERLINE	CUT / FILL CL	SLOPE
1065.99	107.29	108.09	-0.802	
1070.00	107.47	108.09	-0.627	0.11%
1076.76	107.50	108.10	-0.601	
1080.00	107.49	108.10	-0.614	0.00%
1089.74	107.39	108.11	-0.725	
1090.00	107.40	108.11	-0.715	
1094.75	107.58	108.11	-0.531	
1100.00	107.33	108.11	-0.783	
1102.95	107.19	108.11	-0.929	
1104.98	107.17	108.11	-0.947	
1110.00	107.18	108.12	-0.940	
1119.49	107.54	108.13	-0.590	
1120.00	107.56	108.13	-0.571	
1123.49	107.69	108.13	-0.447	
1130.00	107.27	108.14	-0.871	
1140.00	107.26	108.15	-0.892	
1141.78	107.24	108.15	-0.915	
1145.28	107.21	108.16	-0.943	
1150.00	107.19	108.16	-0.966	
1160.00	107.17	108.17	-0.998	
1162.98	107.18	108.17	-0.998	
1165.98	107.17	108.18	-1.005	0.10%
1170.00	107.17	108.18	-1.011	
1180.00	107.31	108.19	-0.885	
1190.00	107.37	108.20	-0.833	
1200.00	107.41	108.21	-0.807	
1210.00	107.46	108.22	-0.766	
1220.00	107.46	108.23	-0.777	
1228.74	107.45	108.24	-0.796	
1230.00	107.45	108.25	-0.794	0.15%
1240.00	107.62	108.26	-0.646	
1250.00	107.54	108.28	-0.738	
1250.74	107.53	108.28	-0.750	
1260.00	107.53	108.28	-0.753	
1270.00	107.59	108.28	-0.690	
1280.00	107.55	108.28	-0.734	
1290.00	107.60	108.29	-0.687	0.02%
1300.00	107.62	108.29	-0.668	
1310.00	107.67	108.29	-0.622	
1320.00	107.66	108.29	-0.634	
1328.30	107.68	108.29	-0.610	
1330.00	107.68	108.30	-0.618	
1340.00	107.71	108.31	-0.598	
1340.07	107.71	108.31	-0.598	
1350.00	107.85	108.33	-0.480	
1350.30	107.85	108.33	-0.479	
1360.00	107.81	108.34	-0.529	0.15%
1370.00	107.88	108.36	-0.479	
1372.93	107.93	108.36	-0.430	
1380.00	107.93	108.37	-0.436	
1382.83	107.91	108.37	-0.459	
1382.93	107.91	108.37	-0.460	

LONGITUDINAL SECTION



REV	DESCRIPTION	DATE	APVD
I	ISSUED FOR TENDER	05/04/2024	S.G.
H	DETAILED DESIGN	21/12/2023	S.G.
G	DETAILED DESIGN	03/09/2021	S.G.
F	ISSUED FOR DISCUSSION	06/07/2021	K.T.
E	ISSUED FOR DISCUSSION	03/04/2020	K.T.
D	ISSUED FOR DISCUSSION	03/04/2020	K.T.
C	ISSUED FOR DESIGN APPROVAL	06/09/2019	K.T.
B	ISSUED FOR INFORMATION	24/06/2019	K.T.
A	ISSUED FOR INFORMATION	16/05/2019	K.T.

REV	DESCRIPTION	DATE	APVD
1			
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12			



abr: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

DESIGNED: N.Y. 08/04/2019
DRAWN: N.Y. 08/04/2019
CHECKED: S.G. 16/05/2019

APPROVED: S.G. 22/12/2023

TENDER



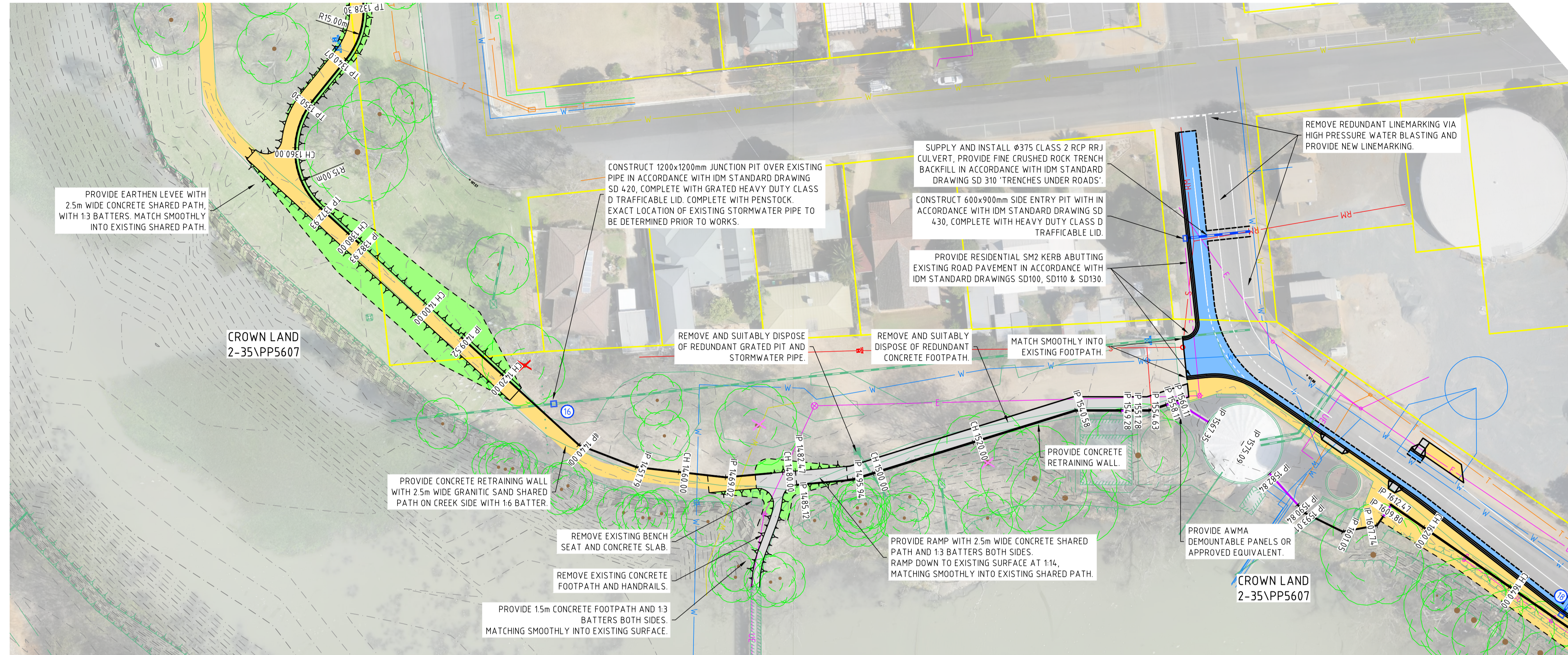
MOIRA SHIRE COUNCIL
NUMURKAH FLOOD PLAN
LEVEE BANK SURVEY & DESIGN
3112-R02-05 - NORTHERN LEVEE STAGE 1
DRAWING NO.: CAD19/8
PROJECT NO.: F13/1427/001

REVISION: I
SHEET NO.: 5

SCALE: 1:500 @ A1

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SEE CONTINUATION
DWG No. 3112-R02-5



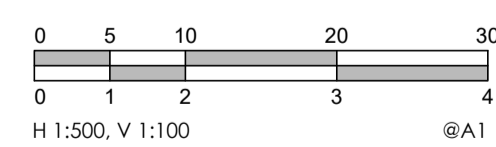
SEE CONTINUATION
DWG No. 3112-R02-7

LAYOUT PLAN



CUT / FILL	1382.93	1390.00	1400.00	1409.52	1410.00	1420.00	1430.00	1440.00	1440.00	1450.00	1451.79	1460.00	1469.02	1470.00	1480.00	1482.47	1485.12	1490.00	1495.94	1500.00	1510.00	1520.00	1530.00	1540.00	1540.58	1549.28	1550.00	1551.28	1554.63	1558.11	1560.11	1560.74	1600.00	1607.74	1609.80	1610.00	1612.47								
EARTHEN LEVEE 2.5m WIDE CREST WITH GRANITIC SAND SHARED PATH AND 1:3 BATTERS BOTH SIDES	+0.610	+0.661	+0.746	-0.797	-0.649	+0.700	+0.704	-0.667	-0.667	+0.580	-0.518	-0.592	+0.689	+0.689	+0.650	+0.654	+0.601	+0.641	+0.699	+0.669	+0.606	+0.733	+0.729	+0.685	+0.682	+0.585	+0.577	+0.559	+0.547	+0.547	+0.564	+0.594	+0.594	+0.590	+0.592	+0.651	+0.750	+0.758	+0.795	+0.802	+0.533	+0.564	+0.569	+0.637	
CONCRETE RETAINING WALL WITH 2.5m WIDE GRANITIC SAND SHARED PATH AND 1:6 BATTERS ON CREEK SIDE	108.52	108.53	108.53	108.54	108.53	108.40	108.40	108.41	108.41	108.42	108.42	108.43	108.44	108.44	108.45	108.45	108.45	108.45	108.45	108.45	108.45	108.45	108.46	108.46	108.46	108.46	108.46	108.46	108.46	108.46	108.46	108.46	108.47	108.47	108.47	108.47	108.47	108.47	108.47	108.47	108.47	108.47	108.47	108.47	
AWMA DEMOUNTABLE PANELS																																													
WATER TANK																																													
CONCRETE RETAINING WALL																																													
WALKING TRACK																																													
AWMA DEMOUNTABLE PANELS																																													
DESIGN CENTRELINE	108.07	108.08	108.08	108.08	108.08	108.08	108.09	108.10	108.10	108.11	108.12	108.12	108.12	108.13	108.13	108.13	108.14	108.14	108.14	108.15	108.15	108.15	108.15	108.15	108.15	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	
WATER LEVEL	108.07	108.08	108.08	108.08	108.08	108.08	108.09	108.10	108.10	108.11	108.12	108.12	108.12	108.13	108.13	108.13	108.14	108.14	108.14	108.15	108.15	108.15	108.15	108.15	108.15	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16		
EXISTING SURFACE	107.91	107.87	107.79	107.74	107.74	107.70	107.70	107.75	107.75	107.84	107.84	107.84	107.85	107.85	107.88	107.89	107.92	107.81	107.75	107.78	107.77	107.77	107.77	107.78	107.78	107.88	107.88	107.90	107.92	107.92	107.92	107.94	107.67	107.67	107.94	107.94	107.90	107.90	107.84	107.90	107.84				
CHAINAGE	1382.93	1390.00	1400.00	1409.52	1410.00	1420.00	1430.00	1440.00	1440.00	1450.00	1451.79	1460.00	1469.02	1470.00	1480.00	1482.47	1485.12	1490.00	1495.94	1500.00	1510.00	1520.00	1530.00	1540.00	1540.58	1549.28	1550.00	1551.28	1554.63	1558.11	1560.11	1560.74	1600.00	1607.74	1609.80	1610.00	1612.47								

LONGITUDINAL SECTION



REV	REF	DESCRIPTION	DATE	APVD
I	-	ISSUED FOR TENDER	05/04/2024	S.G.
H	-	DETAILED DESIGN	21/12/2023	S.G.
G	-	DETAILED DESIGN	03/09/2021	S.G.
F	-	ISSUED FOR DISCUSSION	06/07/2021	K.T.
E	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
D	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
C	-	ISSUED FOR DESIGN APPROVAL	06/09/2019	K.T.
B	-	ISSUED FOR INFORMATION	24/06/2019	K.T.
A	-	ISSUED FOR INFORMATION	16/05/2019	K.T.

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CAF CONSULTING

abr: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

SCALE: 1:500 @ A1

DESIGNED: N.Y. 08/04/2019 APPROVED: S.G.
DRAWN: N.Y. 08/04/2019
CHECKED: S.G. 16/05/2019

22/12/2023

TENDER

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MOIRA SHIRE COUNCIL

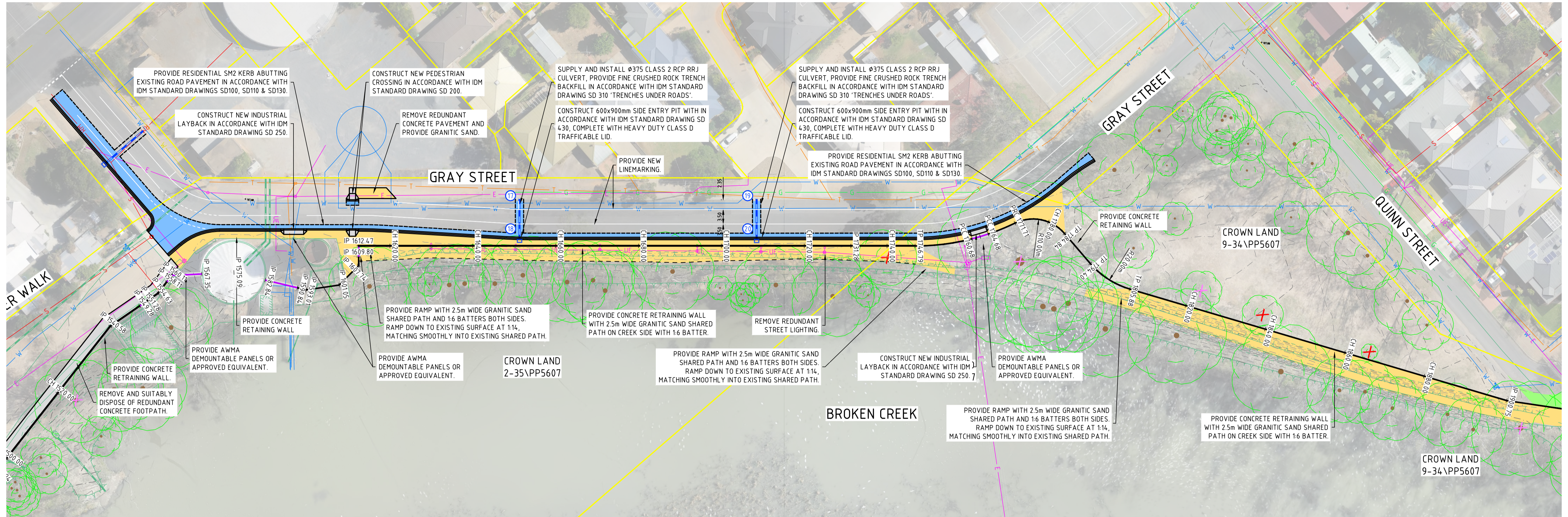
NUMURKAH FLOOD PLAN

LEVEE BANK SURVEY & DESIGN

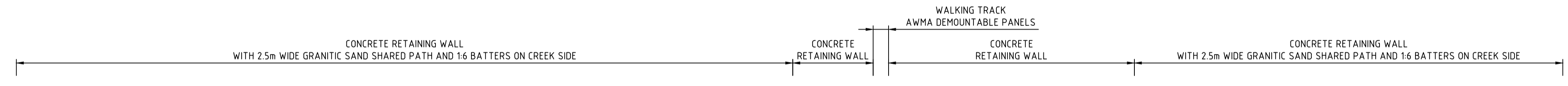
3112-R02-06 - NORTHERN LEVEE STAGE 1

DRAWING NO.: CAD19/8 REVISION: I

PROJECT NO.: F13/1427/001 SHEET NO.: 6

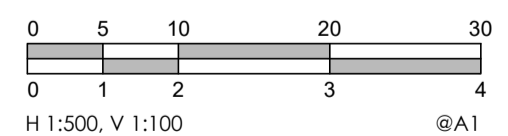


LAYOUT PLAN



CHAINAGE	1612.47	1620.00	1630.00	1640.00	1650.00	1660.00	1670.00	1680.00	1690.00	1700.00	1710.00	1720.00	1730.00	1731.28	1736.79	1740.00	1746.79	1750.00	1760.00	1760.68	1764.68	1770.00	1771.71	1780.00	1784.84	1790.00	1794.40	1795.88	1800.00	1805.88	1810.00	1820.00	1830.00	1840.00	1850.00	1860.00	1870.00	1880.00		
CUT / FILL CL	-0.637	+0.691	-0.757	-0.773	-0.792	-0.814	-0.836	-0.856	-0.839	-0.864	-0.887	-0.850	-0.801	-0.795	-0.770	-0.757	-0.707	-0.669	-0.558	-0.557	-0.510	-0.466	-0.454	-0.443	-0.484	-0.552	-0.591	-0.607	-0.651	-0.676	-0.706	-0.843	-0.969	-1.052	-1.100	-1.140	-1.180	-1.123		
DESIGN CENTERLINE	108.47	108.47	108.48	108.48	108.48	108.48	108.48	108.49	108.49	108.49	108.49	108.49	108.50	108.50	108.50	108.50	108.50	108.50	108.50	108.50	108.50	108.50	108.50	108.51	108.51	108.51	108.51	108.51	108.51	108.51	108.51	108.52	108.52	108.52	108.52	108.52	108.52	108.52	108.52	108.53
WATER LEVEL	108.16	108.16	108.17	108.17	108.17	108.17	108.17	108.17	108.18	108.18	108.18	108.18	108.18	108.18	108.18	108.18	108.19	108.19	108.19	108.19	108.19	108.19	108.19	108.19	108.19	108.19	108.19	108.19	108.19	108.19	108.20	108.20	108.20	108.20	108.21	108.21	108.21	108.21	108.21	108.22
EXISTING SURFACE	107.84	107.78	107.72	107.71	107.69	107.67	107.65	107.63	107.65	107.63	107.61	107.64	107.70	107.70	107.73	107.74	107.79	107.83	107.83	107.95	107.95	107.99	108.04	108.05	108.06	108.02	107.96	107.92	107.90	107.86	107.84	107.81	107.81	107.55	107.47	107.42	107.38	107.34	107.40	

LONGITUDINAL SECTION



REV	REF	DESCRIPTION	DATE	APVD
I	-	ISSUED FOR TENDER	05/04/2024	S.G.
H	-	DETAILED DESIGN	21/12/2023	S.G.
G	-	DETAILED DESIGN	03/09/2021	S.G.
F	-	ISSUED FOR DISCUSSION	06/07/2021	K.T.
E	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
D	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
C	-	ISSUED FOR DESIGN APPROVAL	06/09/2019	K.T.
B	-	ISSUED FOR INFORMATION	24/06/2019	K.T.
A	-	ISSUED FOR INFORMATION	16/05/2019	K.T.

REV	REF	DESCRIPTION	DATE	APVD
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CAF CONSULTING

abn: 37 160 560 556
 a: 38 Wyndham Street, Shepparton
 p: P.O. Box 1948, Shepparton, VIC 3632
 t: 03 5831 3347
 f: 03 5831 3343
 e: info@cafconsulting.com.au
 w: cafconsulting.com.au



DESIGNED:	N.Y.	08/04/2019	APPROVED:	S.G.
DRAWN:	N.Y.	08/04/2019		22/12/2023
CHECKED:	S.G.	16/05/2019		

TENDER

SCALE: 1:500 @ A1

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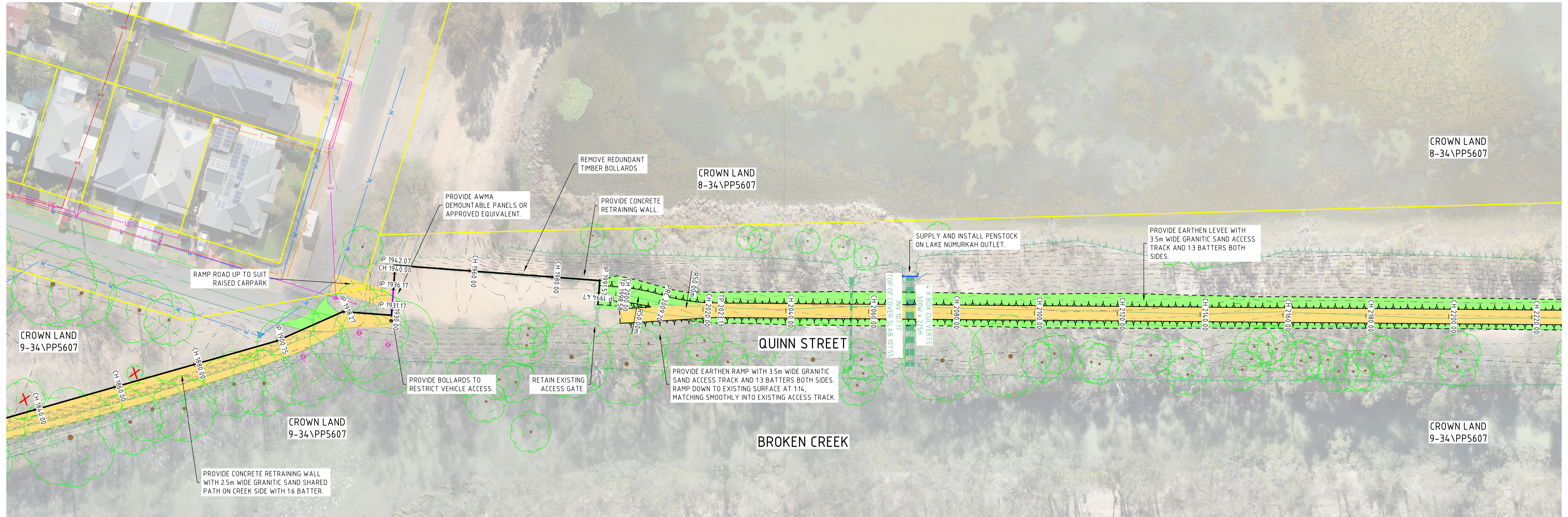
MOIRA SHIRE COUNCIL

NUMURKAH FLOOD PLAN
 LEVEE BANK SURVEY & DESIGN
 3112-R02-07 - NORTHERN LEVEE STAGE 1
 DRAWING NO.: CAD19/8
 PROJECT NO.: F13/1427/001

REVISION: I
 SHEET NO.: 7

SEE CONTINUATION
 DWG No. 3112-R02-6

SEE CONTINUATION
 DWG No. 3112-R02-8

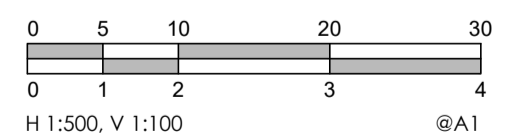


LAYOUT PLAN



CHAINAGE	EXISTING SURFACE	WATER LEVEL	DESIGN CENTERLINE	CUT / FILL CL
1880.00	107.40	108.22	108.53	+1.123
1890.00	107.40	108.22	108.53	+1.124
1900.00	107.54	108.23	108.53	+0.994
1910.00	107.56	108.23	108.53	+0.970
1920.00	107.80	108.23	108.53	+0.738
1930.00	108.25	108.23	108.54	-0.287
1940.00	108.36	108.23	108.54	-0.287
1950.00	108.39	108.23	108.54	-0.241
1960.00	108.39	108.23	108.54	-0.181
1970.00	108.23	108.23	108.54	-0.152
1980.00	108.39	108.23	108.54	-0.150
1990.00	108.36	108.23	108.54	-0.184
2000.00	108.28	108.23	108.54	-0.306
2010.00	108.08	108.24	108.54	+0.469
2020.00	108.03	108.24	108.55	+0.514
2030.00	108.01	108.24	108.55	+0.541
2040.00	108.02	108.24	108.55	+0.534
2050.00	108.20	108.24	108.70	+0.500
2060.00	108.21	108.25	108.70	+0.490
2070.00	108.22	108.25	108.70	+0.486
2080.00	108.28	108.25	108.71	-0.424
2090.00	108.29	108.25	108.71	-0.420
2100.00	108.25	108.25	108.71	-0.461
2110.00	108.23	108.26	108.71	-0.485
2120.00	108.17	108.26	108.72	-0.546
2130.00	108.10	108.26	108.72	-0.621
2140.00	108.06	108.27	108.72	-0.660
2150.00	108.05	108.27	108.73	-0.677
2160.00	108.08	108.28	108.73	-0.653
2170.00	108.09	108.28	108.74	-0.647
2180.00	108.08	108.28	108.74	-0.655
2190.00	108.05	108.29	108.74	-0.696
2200.00	108.02	108.29	108.75	-0.724
2210.00	108.04	108.30	108.75	-0.708
2220.00	108.06	108.30	108.76	-0.692
2230.00	108.09	108.31	108.76	-0.673
2240.00	108.15	108.31	108.76	-0.617
2250.00	108.21	108.31	108.76	-0.558
2260.00	108.22	108.31	108.76	-0.548
2270.00	108.22	108.31	108.76	-0.539
2280.00	108.23	108.31	108.76	-0.539
2290.00	108.22	108.31	108.77	-0.545

LONGITUDINAL SECTION

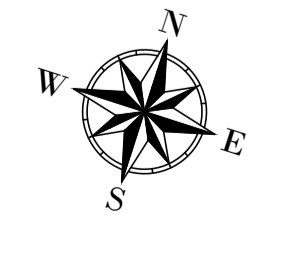


REV	DESCRIPTION	DATE	APVD
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I	-	ISSUED FOR TENDER	05/04/2024	S.G.
H	-	DETAILED DESIGN	21/12/2023	S.G.
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F	-	ISSUED FOR DISCUSSION	06/07/2021	K.T.
E	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
D	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
C	-	ISSUED FOR DESIGN APPROVAL	06/09/2019	K.T.
B	-	ISSUED FOR INFORMATION	24/06/2019	K.T.
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CAF CONSULTING

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DESIGNED:	N.Y.	08/04/2019	APPROVED:	S.G.
DRAWN:	N.Y.	08/04/2019		22/12/2023
CHECKED:	S.G.	16/05/2019		

TENDER

SCALE: 1:500 @ A1

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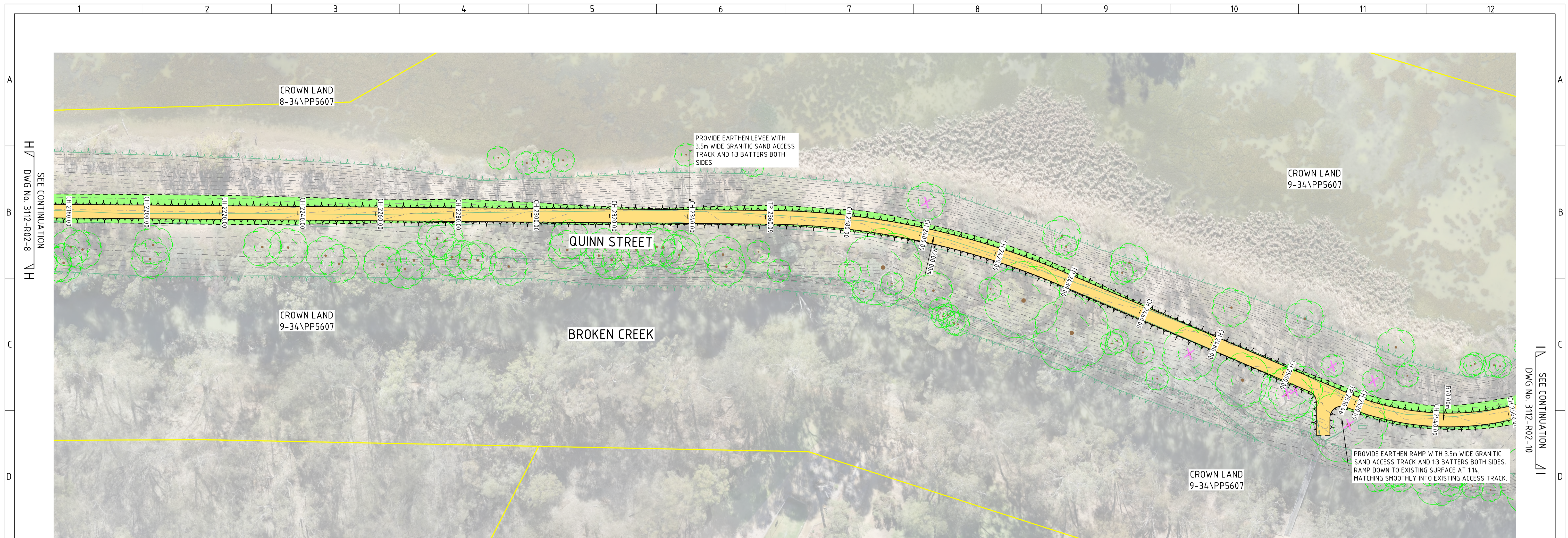
MOIRA SHIRE COUNCIL

NUMURKAH FLOOD PLAN
 LEVEE BANK SURVEY & DESIGN
 3112-R02-08 - NORTHERN LEVEE STAGE 1
 DRAWING NO.: CAD19/8
 PROJECT NO.: F13/1427/001

REVISION: I
 SHEET NO.: 7

SEE CONTINUATION
 DWG No. 3112-R02-7

SEE CONTINUATION
 DWG No. 3112-R02-9



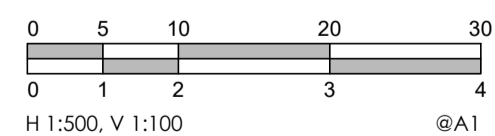
LAYOUT PLAN



EARTHEN LEVEE 3.5m WIDE CREST
WITH GRANITIC SAND ACCESS TRACK AND 1:6 BATTERS BOTH SIDES

CHAINAGE	EXISTING SURFACE	DESIGN CENTERLINE	CUT / FILL CL
2200.00	108.22	108.77	+0.545
2210.00	108.21	108.77	+0.556
2220.00	108.20	108.77	+0.563
2230.00	108.21	108.77	+0.559
2240.00	108.29	108.77	+0.480
2250.00	108.36	108.77	+0.403
2260.00	108.44	108.77	+0.325
2270.00	108.51	108.77	+0.253
2280.00	108.58	108.77	+0.189
2290.00	108.65	108.77	+0.118
2300.00	108.73	108.77	+0.035
2310.00	108.82	108.77	-0.047
2320.00	108.85	108.77	-0.080
2330.00	108.87	108.77	-0.095
2340.00	108.79	108.77	-0.023
2350.00	108.66	108.77	-0.112
2360.00	108.60	108.77	-0.171
2360.09	108.60	108.77	-0.171
2370.00	108.60	108.77	-0.171
2380.00	108.60	108.77	-0.172
2390.00	108.62	108.77	-0.153
2400.00	108.66	108.77	-0.115
2410.00	108.68	108.77	-0.090
2420.00	108.66	108.77	-0.113
2430.00	108.68	108.78	-0.099
2439.00	108.71	108.78	-0.063
2440.00	108.72	108.78	-0.058
2450.00	108.77	108.78	-0.004
2460.00	108.81	108.78	-0.037
2470.00	108.80	108.78	-0.026
2480.00	108.79	108.78	-0.007
2490.00	108.75	108.78	-0.033
2500.00	108.68	108.78	+0.101
2510.00	108.62	108.78	+0.164
2516.46	108.60	108.78	-0.179
2520.00	108.58	108.78	+0.201
2530.00	108.44	108.78	+0.341
2540.00	108.41	108.79	+0.376

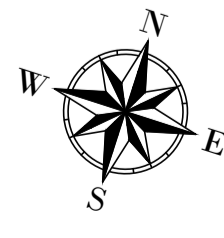
LONGITUDINAL SECTION



REV	REF	DESCRIPTION	DATE	APVD
I	-	ISSUED FOR TENDER	05/04/2024	S.G.
H	-	DETAILED DESIGN	21/12/2023	S.G.
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F	-	ISSUED FOR DISCUSSION	06/07/2021	K.T.
E	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
D	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
C	-	ISSUED FOR DESIGN APPROVAL	06/09/2019	K.T.
B	-	ISSUED FOR INFORMATION	24/06/2019	K.T.
A	-	ISSUED FOR INFORMATION	16/05/2019	K.T.



abr: 37 160 560 556
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f: 03 5831 3343
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w: cafconsulting.com.au



SCALE: 1:500 @ A1

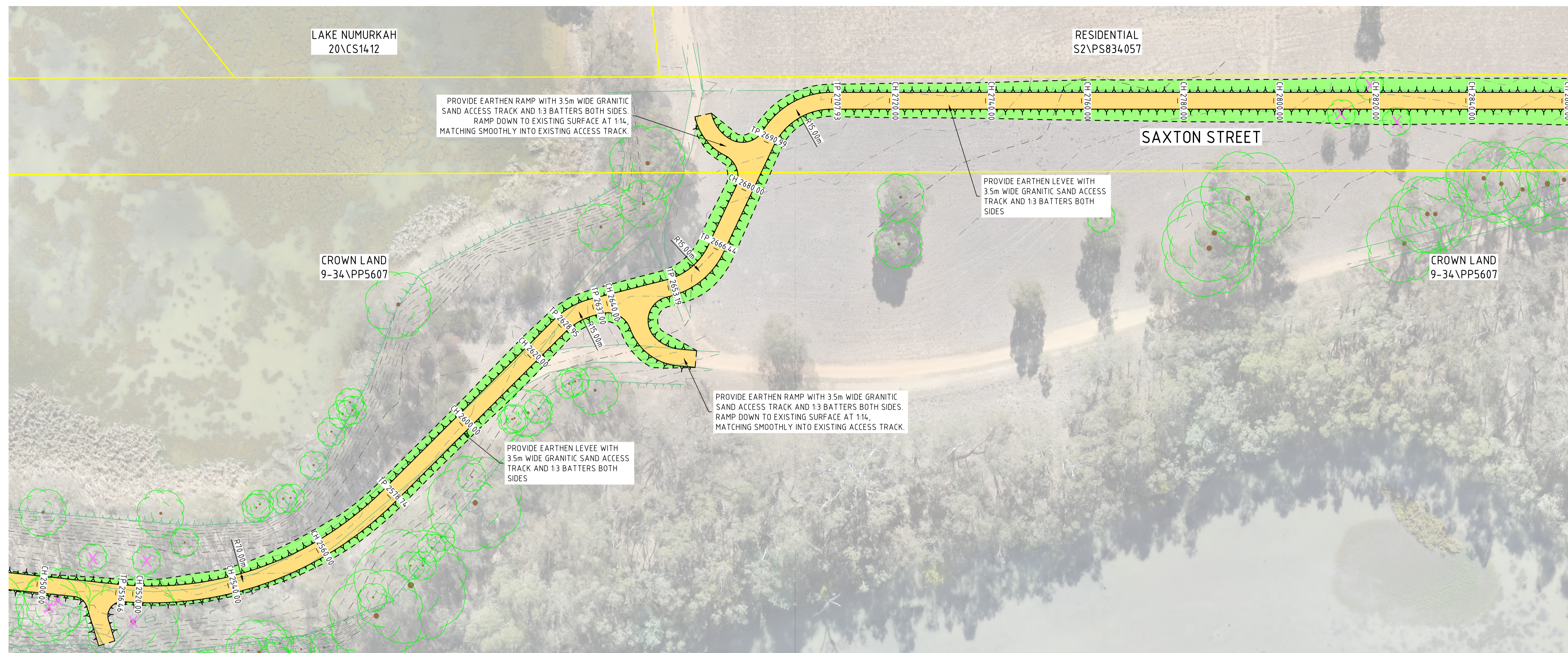
DESIGNED:	N.Y.	08/04/2019	APPROVED:	S.G.
DRAWN:	N.Y.	08/04/2019		22/12/2023
CHECKED:	S.G.	16/05/2019		

TENDER

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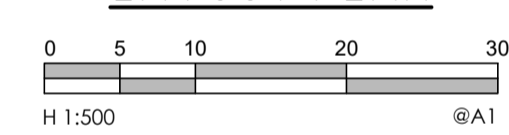


MOIRA SHIRE COUNCIL
NUMURKAH FLOOD PLAN
LEVEE BANK SURVEY & DESIGN
3112-R08-09 - NORTHERN LEVEE STAGE 1
DRAWING NO.: CAD19/8
PROJECT NO.: F13/1427/001
REVISION: I
SHEET NO.: 9



SEE CONTINUATION
DWG No. 3112-R02-9

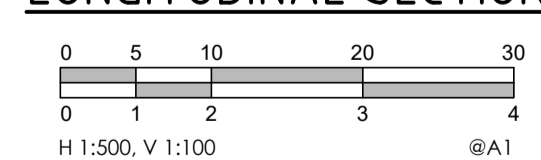
LAYOUT PLAN



EARTHEN LEVEE 3.5m WIDE CREST
WITH GRANITIC SAND ACCESS TRACK AND 1:6 BATTERS BOTH SIDES

CHAINAGE	EXISTING SURFACE	DESIGN CENTERLINE	CUT / FILL CL
2540.00	108.41	108.33	+0.376
2550.00	108.39	108.33	+0.403
2560.00	108.32	108.34	+0.475
2570.00	108.31	108.34	+0.482
2578.74	108.31	108.34	+0.484
2580.00	108.31	108.34	+0.482
2590.00	108.32	108.34	+0.481
2600.00	108.30	108.35	+0.492
2610.00	108.24	108.35	+0.562
2620.00	108.21	108.35	+0.568
2628.95	108.21	108.35	+0.566
2630.00	108.22	108.35	+0.590
2637.00	108.18	108.35	+0.624
2640.00	108.14	108.35	+0.659
2650.00	108.11	108.35	+0.688
2653.19	108.13	108.35	+0.670
2660.00	107.98	108.35	+0.815
2666.44	108.00	108.35	+0.796
2670.00	108.03	108.35	+0.772
2680.00	108.12	108.35	+0.676
2690.00	108.23	108.35	+0.576
2690.99	108.24	108.35	+0.566
2700.00	108.28	108.35	+0.518
2707.93	108.29	108.35	+0.514
2710.00	108.27	108.35	+0.579
2720.00	108.19	108.35	+0.615
2730.00	108.19	108.35	+0.619
2740.00	108.15	108.35	+0.655
2750.00	108.07	108.35	+0.737
2760.00	107.99	108.35	+0.816
2770.00	107.98	108.35	+0.828
2780.00	107.97	108.35	+0.834
2790.00	107.94	108.35	+0.864
2800.00	107.95	108.35	+0.858
2810.00	107.87	108.35	+0.940
2820.00	107.80	108.35	+1.009
2830.00	107.79	108.36	+1.019
2840.00	107.82	108.36	+0.990

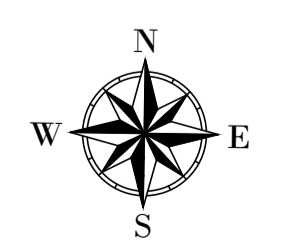
LONGITUDINAL SECTION



REV	REF	DESCRIPTION	DATE	APVD
I	-	ISSUED FOR TENDER	05/04/2024	S.G.
H	-	DETAILED DESIGN	21/12/2023	S.G.
G	-	DETAILED DESIGN	03/09/2021	S.G.
F	-	ISSUED FOR DISCUSSION	06/07/2021	K.T.
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SCALE: 1:500 @ A1

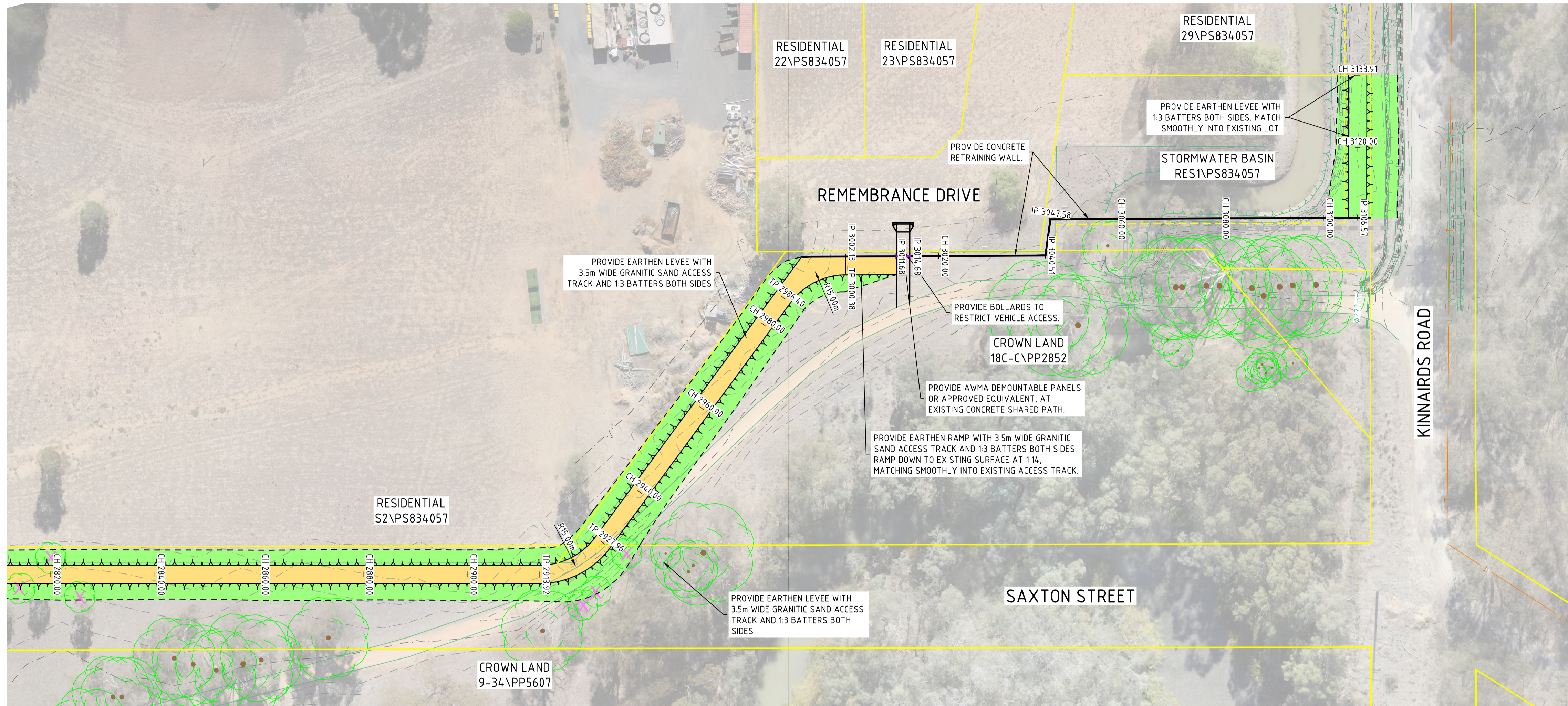
DESIGNED: N.Y. 08/04/2019 APPROVED: S.G. 22/12/2023
DRAWN: N.Y. 08/04/2019
CHECKED: S.G. 16/05/2019

TENDER

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MOIRA SHIRE COUNCIL
NUMURKAH FLOOD PLAN
LEVEE BANK SURVEY & DESIGN
3112-R02-10 - NORTHERN LEVEE STAGE 1
DRAWING NO.: CAD19/8 REVISION: I
PROJECT NO.: F13/1427/001 SHEET NO.: 10

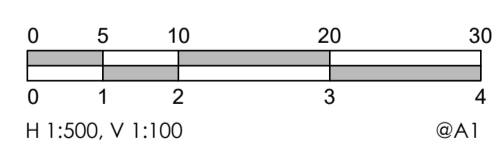


LAYOUT PLAN



CHAINAGE	EXISTING SURFACE	DESIGN CENTERLINE	CUT / FILL CL
2840.00	107.82	108.81	+0.990
2850.00	107.84	108.81	+0.973
2860.00	107.80	108.81	+1.014
2870.00	107.76	108.81	+1.049
2880.00	107.80	108.81	+1.014
2890.00	107.81	108.81	+1.003
2900.00	107.86	108.81	+0.952
2910.00	107.67	108.81	+1.143
2913.92	107.62	108.81	+1.197
2920.00	107.69	108.81	+1.129
2927.96	107.60	108.82	+1.213
2930.00	107.62	108.82	+1.201
2940.00	107.73	108.82	+1.090
2950.00	107.74	108.82	+1.080
2960.00	107.74	108.83	+1.090
2970.00	107.82	108.83	+1.012
2980.00	107.86	108.83	+0.968
2986.40	107.83	108.83	+1.009
2990.00	107.86	108.84	+0.977
3000.00	107.72	108.84	+1.116
3003.38	107.71	108.84	+1.127
3007.13	107.72	108.68	+0.960
3010.00	107.68	108.68	+0.996
3011.68	107.68	108.68	+0.996
3014.68	107.68	108.68	+0.996
3020.00	107.68	108.68	+0.996
3030.00	107.61	108.68	+1.075
3040.00	107.55	108.68	+1.134
3040.51	107.54	108.68	+1.136
3047.58	107.65	108.68	+1.030
3050.00	107.62	108.68	+1.056
3060.00	107.68	108.68	+0.830
3070.00	107.85	108.68	+0.860
3080.00	107.82	108.68	+0.860
3090.00	107.75	108.68	+0.932
3100.00	107.27	108.68	+1.411
3106.51	107.19	108.68	+1.490
3110.00	107.20	108.68	+1.478
3120.00	107.30	108.68	+1.379
3130.00	107.34	108.68	+1.344
3133.91	107.35	108.68	+1.332

LONGITUDINAL SECTION

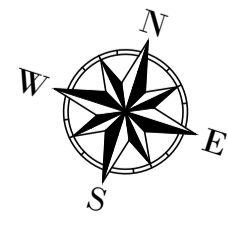


SEE CONTINUATION
J/J DWG No. 3112-R02-10

REV	REF	DESCRIPTION	DATE	APVD
I	-	ISSUED FOR TENDER	05/04/2024	S.G.
H	-	DETAILED DESIGN	21/12/2023	S.G.
G	-	DETAILED DESIGN	03/09/2021	S.G.
F	-	ISSUED FOR DISCUSSION	06/07/2021	K.T.
E	-	ISSUED FOR DISCUSSION	03/04/2020	K.T.
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SCALE: 1:500 @ A1

DESIGNED: N.Y. 08/04/2019 APPROVED: S.G.
DRAWN: N.Y. 08/04/2019 22/12/2023
CHECKED: S.G. 16/05/2019

TENDER

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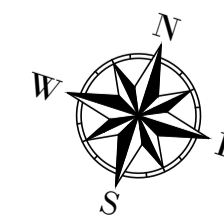
MOIRA SHIRE COUNCIL
NUMURKAH FLOOD PLAN
LEVEE BANK SURVEY & DESIGN
3112-R02-11 - NORTHERN LEVEE STAGE 1
DRAWING NO.: CAD19/8 REVISION: I
PROJECT NO.: F13/1427/001 SHEET NO.: 11

STORMWATER PIT SCHEDULE													
No.	PIT				OUTLET		INLET		DESIGN PIT DEPTH (m)	DESIGN LID LEVEL (mAHD)	EASTING (m)	NORTHING (m)	COMMENTS
	PIT TYPE	LID TYPE	WIDTH (mm)	LENGTH (mm)	DN (mm)	IL (mAHD)	DN (mm)	IL (mAHD)					
1	JP	CLASS D	900	900	300	105.080	300	105.350	1.300	106.050	358837.249	6004231.807	
							450	104.910					
							300	105.080					
2	JP	CLASS D	900	900	225	105.930	225	105.930	0.963	106.893	358922.183	6004224.572	
3	JP	CLASS D	1200	1200	750	103.820	750	103.820	3.054	106.874	359032.886	6004216.978	
							375	105.256					
4	GSEP	CLASS D	600	900	375	105.353	375	105.373	1.428	106.781	359016.043	6004226.723	
5	GSEP	CLASS D	600	900	375	105.621	-	-	1.006	106.627	358966.479	6004225.983	
6	DEW	N/A	N/A	N/A	-	-	375	105.712	0.831	106.543	359233.586	6004190.880	
7	JP	CLASS D	900	900	375	105.757	375	105.777	0.844	106.601	359238.177	6004198.523	
							375	105.777					
8	DEW	N/A	N/A	N/A	375	105.794	-	-	0.839	106.633	359239.896	6004201.376	
9	JP	CLASS D	900	900	375	105.859	375	105.879	1.012	106.871	359224.106	6004207.009	
							300	106.500					
10	SEP	CLASS D	600	900	375	105.889	-	-	0.949	106.838	359222.381	6004208.049	
11	JP	CLASS D	1200	1200	900	105.940	900	105.940	1.593	107.533	3594814.82	6004323.943	
12	JP	CLASS D	1200	1200	900	105.940	900	105.940	1.274	107.214	359620.133	6004522.508	
13	SEP	CLASS D	600	900	TBC	TBC	375	106.235	TBC	TBC	359794.593	6004537.008	BREAK INTO EXISTING PIT AND MAKE GOOD
14	GSEP	CLASS D	600	900	375	106.359	375	106.379	1.063	107.422	359775.758	6004520.888	
15	GSEP	CLASS D	600	900	375	106.444	-	-	0.962	107.406	359762.747	6004520.687	
16	JP	CLASS D	900	900	375	106.600	375	106.600	1.057	107.657	359937.760	6004557.705	
17	SEP	CLASS D	600	900	TBC	TBC	375	106.588	TBC	TBC	359987.582	6004752.697	BREAK INTO EXISTING PIT AND MAKE GOOD
18	SEP	CLASS D	600	900	375	106.638	-	-	1.132	107.770	359995.326	6004746.263	
19	SEP	CLASS D	600	900	TBC	TBC	375	106.522	TBC	TBC	360024.198	6004796.694	BREAK INTO EXISTING PIT AND MAKE GOOD
20	SEP	CLASS D	600	900	375	106.573	-	-	1.132	107.705	360031.961	6004790.234	

I	-	ISSUED FOR TENDER	05/04/2024	S.G.
H	-	DETAILED DESIGN	21/12/2023	S.G.
G	-	DETAILED DESIGN	03/09/2021	S.G.
F	-	ISSUED FOR DISCUSSION	06/07/2021	K.T.
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SCALE: 1:500 @ A1

DESIGNED: N.Y. 08/04/2019 APPROVED S.G. 22/12/2023
 DRAWN: N.Y. 08/04/2019
 CHECKED: S.G. 16/05/2019

TENDER

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MOIRA SHIRE COUNCIL
 NUMURKAH FLOOD PLAN
 LEVEE BANK SURVEY & DESIGN
 3112-R02-12 - NORTHERN LEVEE STAGE 1
 DRAWING NO.: CAD19/8 REVISION: I
 PROJECT NO.: F13/1427/001 SHEET NO.: 12