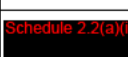
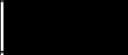
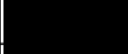
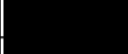



ISABELLA PONDS WETLAND

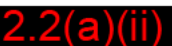


 LIMIT OF WORKS

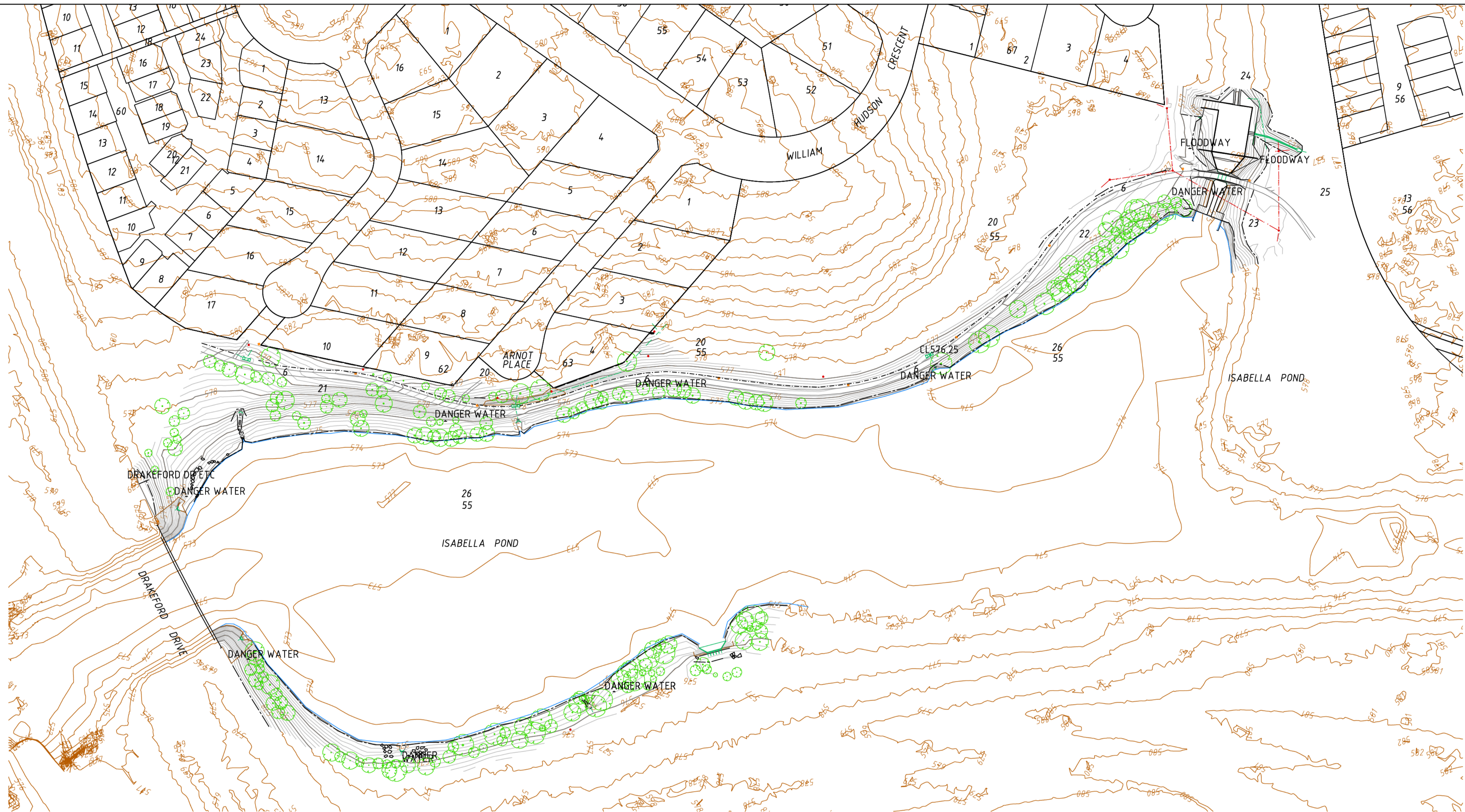
REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16



Alluvium Consulting Australia
 Pty. Ltd.
 ABN 76 151 119 792
 21-23 Stewart St
 Richmond Vic 3121
 T 61 3 9421 2532
 www.alluvium.com.au

DESIGNED:	DRAWN:	CHECKED:	APPROVED:	PROJECT No:
Schedule 2.2(a)(ii)				P315012

ACT GOVERNMENT ISABELLA PONDS WETLAND			
LOCALITY PLAN			
REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE:
E	IWS-01	A1	
		DATUM: m AHD (AGC Zone)	



SURVEY COMPLETED BY:

Title: DETAIL SURVEY ISABELLA POND UPGRADE	
Division: MONASH District: TUGGERANONG	
Horizontal Datum: <input type="checkbox"/> A: <input type="checkbox"/> C.S.F. <input type="checkbox"/> N/A <input type="checkbox"/> S: <input type="checkbox"/> TEM <input type="checkbox"/> SGC/AGC	Vertical Datum: <input type="checkbox"/> MARK: <input type="checkbox"/> SR784 <input type="checkbox"/> LEVEL: <input type="checkbox"/> RL594.858 <input type="checkbox"/> SYSTEM: <input type="checkbox"/> AHD



ABN 74 131 478 914
Unit 2 | 20-24 Trenerr Street
We: ton ACT 2811
P (02) 6287 3300
E info@kerrysurveys.com.au
W www.kerrysurveys.com.au

NOTES:

- ISABELLA POND BATHYMETRY INTERPRETED FROM SEDIMENT SURVEY (ALLUVIUM 2014) AND MAY VARY TO ACTUAL CONDITIONS FOUND ON SITE
- FEATURE LEVELS OUTSIDE OF SURVEY EXTENT DERIVED FROM ALS PROVIDED BY ACT GOVERNMENT

LEGEND

- EXISTING CONDITIONS**
- SURVEYED TREE
 - CONTOUR INTERVAL 0.2 m
 - STREET LIGHT
 - ELECTRICITY POLE
 - EDGE OF BITUMEN
 - TOE OF BANK
 - TOP OF BANK
 - FENCE
 - WATERLINE
 - CONCRETE PATH
- SERVICES**
- STORM WATER PIPE
 - SEWER PIPE



REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16



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ABN 76 151 119 792
21-23 Stewart St
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T 61 3 9421 2532
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DESIGNED: DRAWN: CHECKED: APPROVED: PROJECT No: P315012

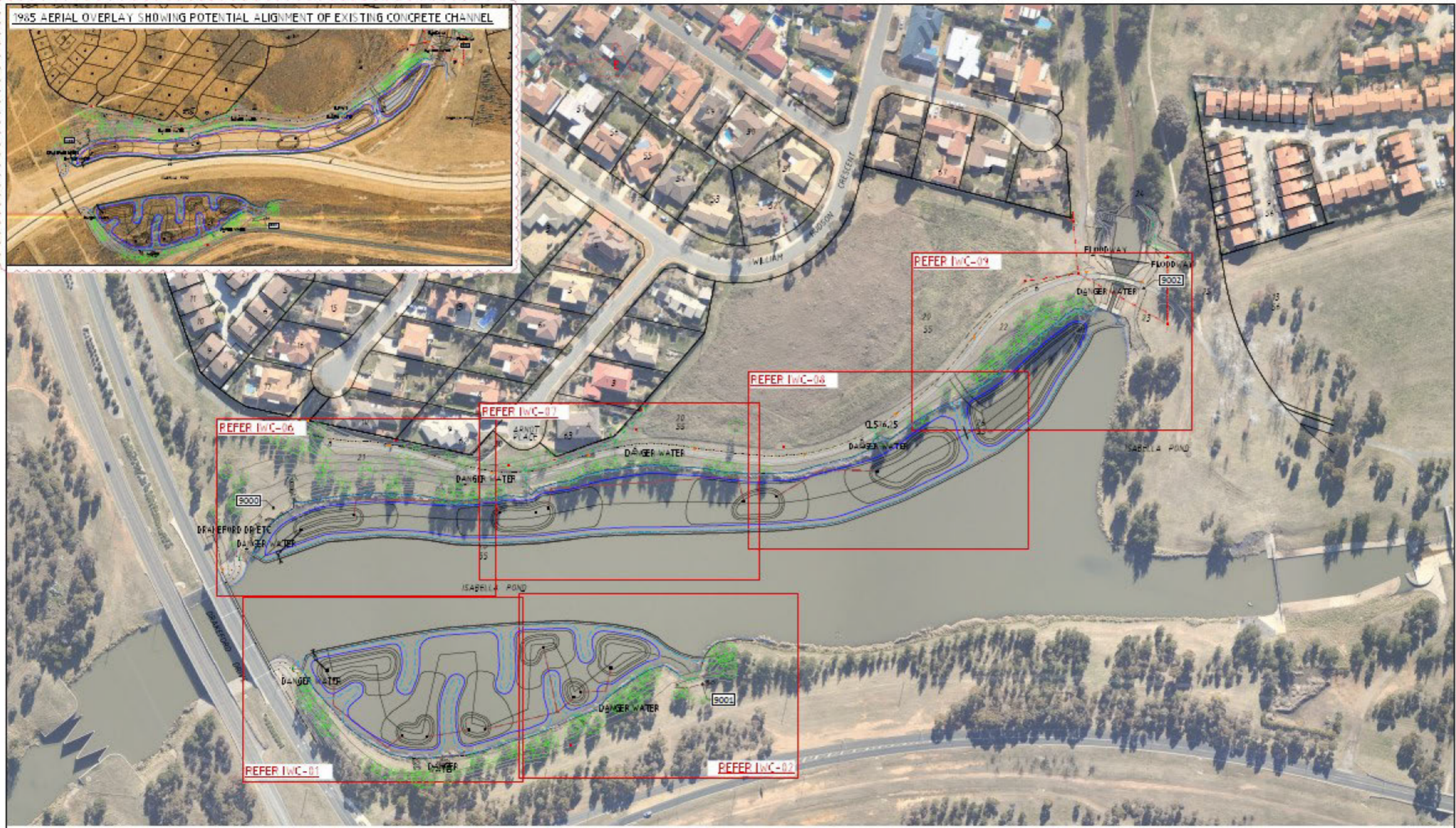
REVISION: E	SHEET No.: IWS-03	ORIGINAL SIZE: A1	SCALE: 1:1000 @A1
		DATUM: m AHD (AGC Zone)	

ACT GOVERNMENT
ISABELLA PONDS WETLAND

EXISTING CONDITIONS PLAN

Schedule 2.2(a)(ii)

1985 AERIAL OVERLAY SHOWING POTENTIAL ALIGNMENT OF EXISTING CONCRETE CHANNEL



SURVEY CONTROL

REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16

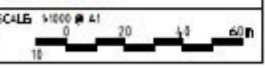


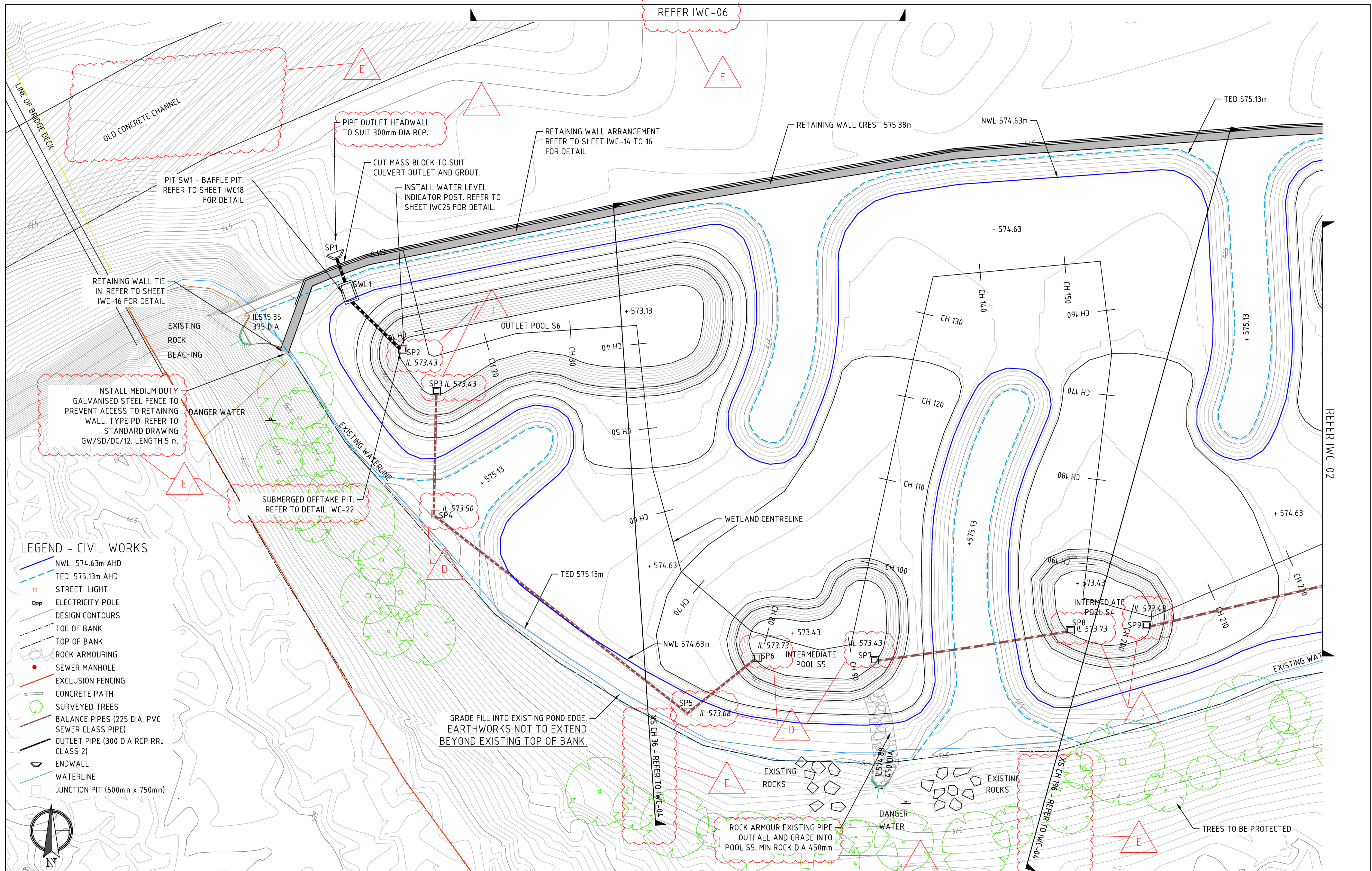
alluvium
 Alluvium Consulting Australia
 Pty. Ltd.
 ABN 76 155 159 792
 23-25 Stewart St
 Richmond Vic 3121
 T: 61 3 9421 2552
 www.alluvium.com.au

ACT GOVERNMENT
 ISABELLA PONDS WETLAND
 GENERAL ARRANGEMENT PLAN

Schedule 2.2 (a)(ii)

REVISION	SHEET No.	ORIGINAL SIZE	SCALE
E	IWS-14	A1	1:1000 @ A1





REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16

NO GO ZONE
for Power Poles

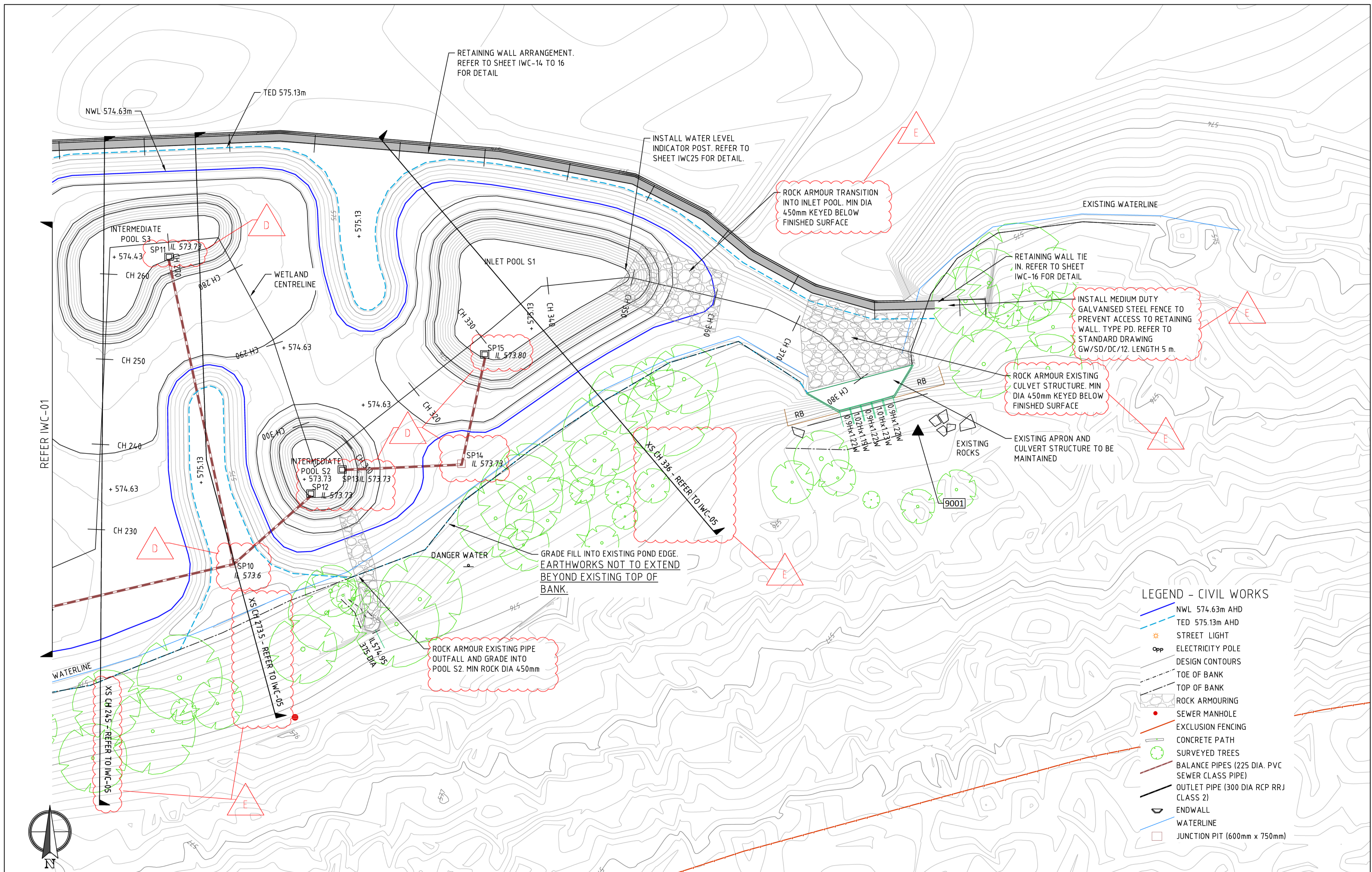
NO GO ZONE
for Towers



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 ABN 76 151 119 792
 21-23 Stewart St
 Richmond Vic 3121
 T 61 3 9421 2532
 www.alluvium.com.au

ACT GOVERNMENT
ISABELLA PONDS WETLAND
SOUTH WETLAND
CHO - CH220

DESIGNED:	DRAWN:	CHECKED:	APPROVED:	PROJECT No:
Schedule 2.2(a)(ii)				
REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE: 1:200 @ A1	
E	IWC-01	A1		
		DATUM: m AHD (AGD66)		



REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16

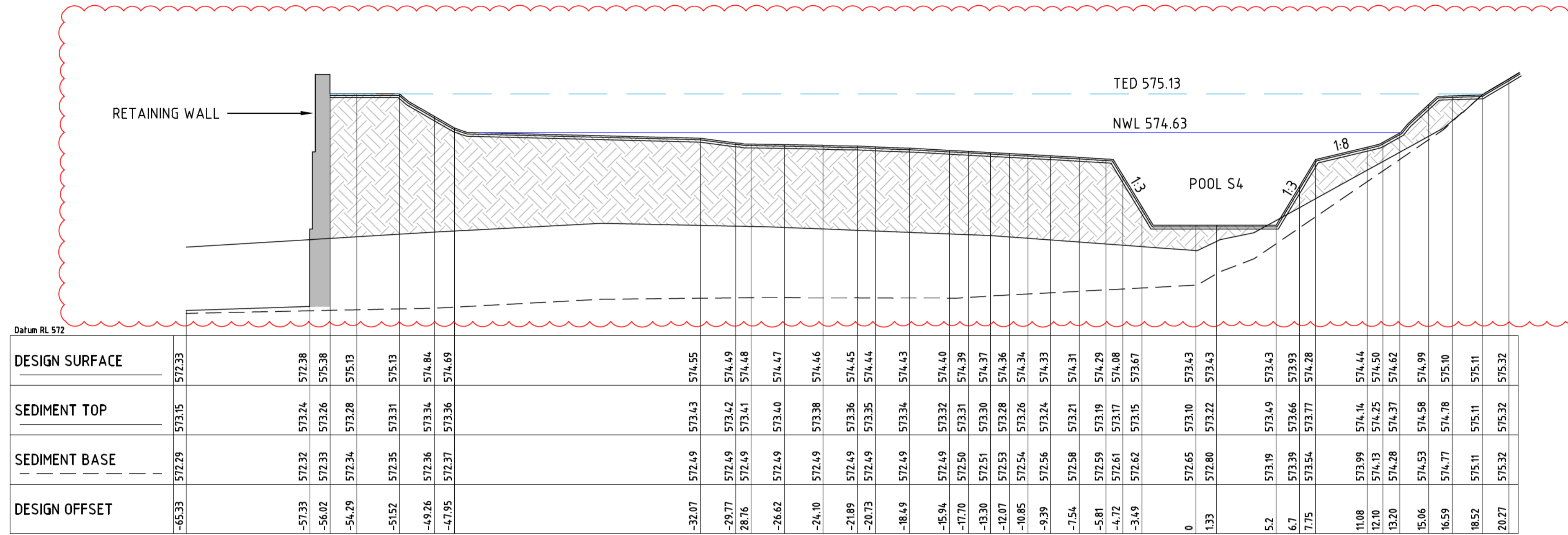
www.worksafe.vic.gov.au

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 21-23 Stewart St
 Richmond Vic 3121
 T 61 3 9421 2532
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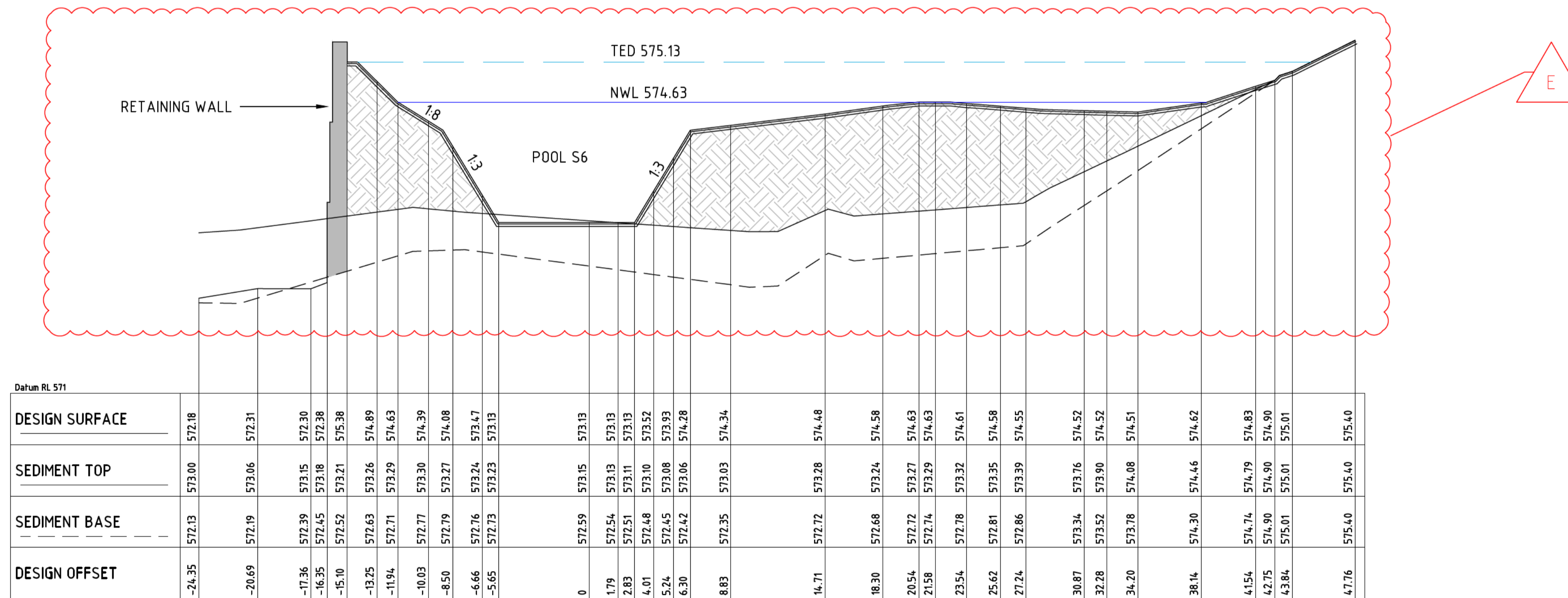
DESIGNED:	DRAWN:	CHECKED:	APPROVED:	PROJECT No:
Schedule 2.2(a)(ii)				P315012

ACT GOVERNMENT
ISABELLA PONDS WETLAND
SOUTH WETLAND
CH220 - CH384

REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE:
E	IWC-02	A1	1:200 @ A1
		DATUM:	m AHD (AGD66)



CROSS SECTION 196.00



CROSS SECTION 36.00

NOTE:
DESIGN SURFACES SHOWN HERE ARE FINISHED SURFACES. ALLOWANCE FOR TOPSOIL AND CAPPING LAYER ARE TO BE MADE IN ADDITIONAL TO THESE LEVELS.

FILL REQUIRED TO FORM WETLAND SURFACE TO COMPRISE OF GENERAL FILL (ZONE 1 TO 4 EXCAVATED MATERIAL FROM WEIR UPGRADE AND SEDIMENT EXCAVATED WITHIN THE POND). THE CONTRACTOR IS RESPONSIBLE FOR UNDERTAKING A GEOTECHNICAL ASSESSMENT OF THE EXISTING SEDIMENT AND PROPOSED FILL MATERIALS AND DEVELOPING A PLACEMENT AND COMPACTION APPROACH THAT WILL LIMIT LONG TERM SETTLEMENT TO 5%.

CAPPING LAYER COMPRISED OF ZONE 1 AND 2 EXCAVATED CLAY MATERIAL FROM WEIR UPGRADE (REFER TO SHEET IWC-23). REFER TO SPECIFICATION FOR COMPACTION REQUIREMENTS.

REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16

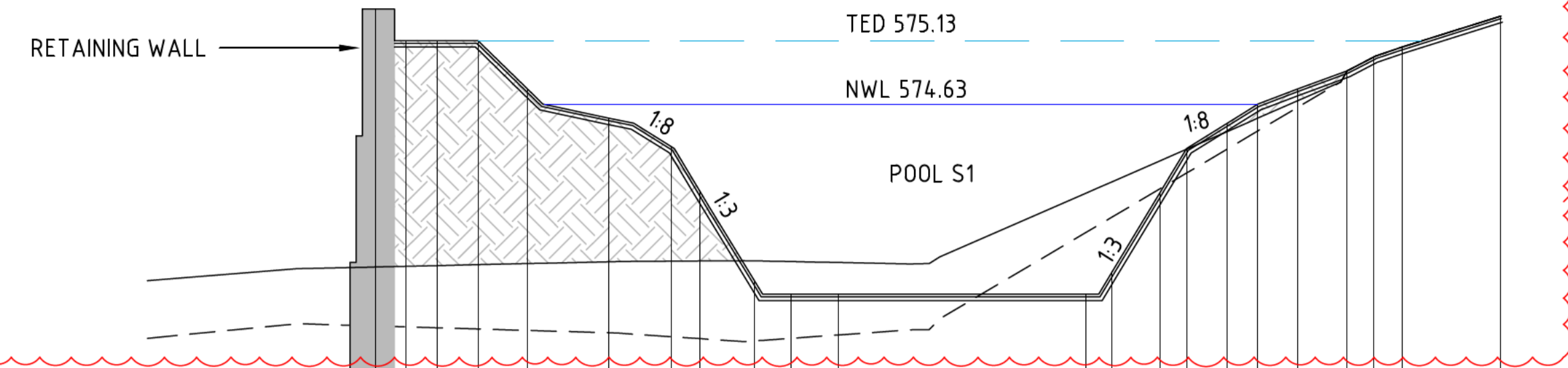


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ABN 76 151 119 792
21-23 Stewart St
Richmond Vic 3121
T 61 3 9421 2532
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DESIGNED: Schedule 2.2(a)(ii) DRAWN: CHECKED: APPROVED: PROJECT No: P315012

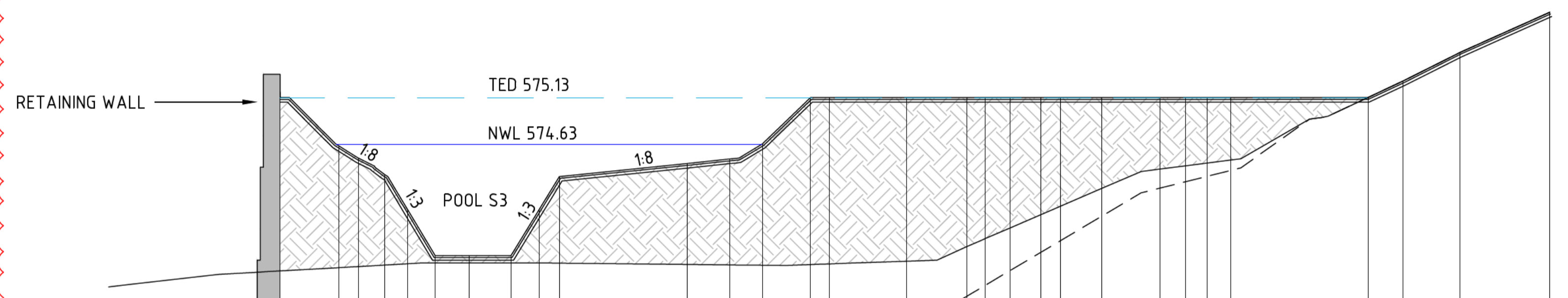
ACT GOVERNMENT ISABELLA PONDS WETLAND SOUTH WETLAND CROSS SECTIONS

REVISION: E SHEET No.: IWC-04 ORIGINAL SIZE: A1 SCALE: 1:200 DATUM: m AHD (AGD66)



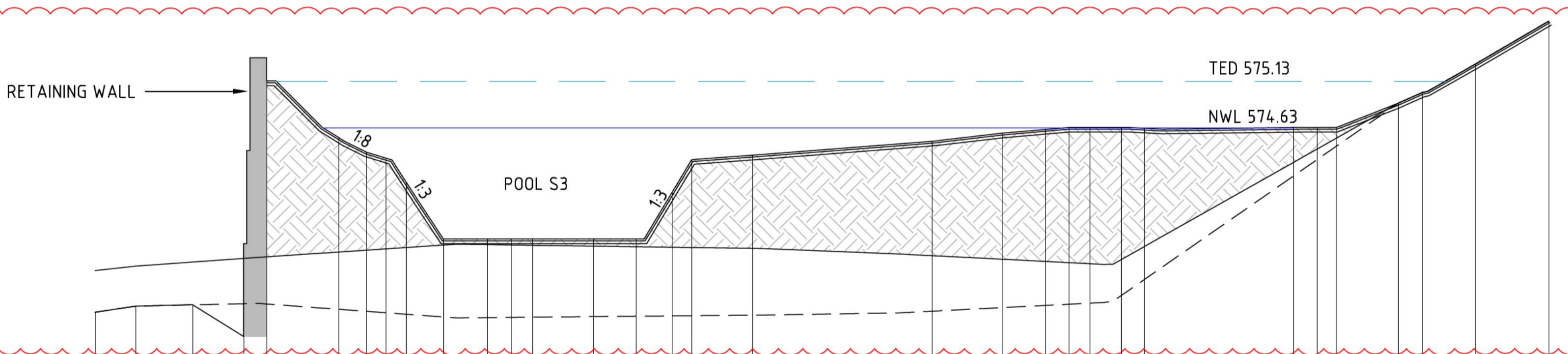
	Datum RL 572																			
DESIGN SURFACE	572.41	572.38	572.38	572.38	572.38	572.38	572.38	572.38	572.38	572.38	572.38	572.38	572.38	572.38	572.38	572.38	572.38	572.38	572.38	572.38
SEDIMENT TOP	573.24	573.34	573.34	573.35	573.35	573.36	573.36	573.37	573.37	573.39	573.39	573.39	573.39	573.39	573.39	573.39	573.39	573.39	573.39	573.39
SEDIMENT BASE	572.78	572.89	572.88	572.87	572.87	572.86	572.84	572.84	572.83	572.83	572.80	572.78	572.76	572.78	572.78	572.81	572.81	572.81	572.81	572.81
DESIGN OFFSET	-25.42	-17.42	-16.40	-15.21	-13.98	-12.37	-10.42	-7.19	-4.75	-3.60	-1.47	0.00	1.87	11.62	12.66	14.54	15.60	17.21	18.41	19.87

CROSS SECTION 336.00



	Datum RL 572																			
DESIGN SURFACE	572.70	573.09	573.12	573.22	573.25	573.26	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33
SEDIMENT TOP	572.70	573.09	573.12	573.22	573.25	573.26	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33
SEDIMENT BASE	572.70	573.09	573.12	573.22	573.25	573.26	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33
DESIGN OFFSET	-12.41	-11.19	-6.61	-4.41	-3.17	0.00	1.03	2.47	3.68	5.18	7.00	9.26	10.80	11.87	18.75	21.05	22.80	25.40	26.42	30.56

CROSS SECTION 273.50



	Datum RL 572																			
DESIGN SURFACE	572.64	573.09	573.14	573.22	573.25	573.26	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33
SEDIMENT TOP	572.64	573.09	573.14	573.22	573.25	573.26	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33
SEDIMENT BASE	572.64	573.09	573.14	573.22	573.25	573.26	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33	573.33
DESIGN OFFSET	-13.14	-10.93	-7.89	-5.14	-3.90	0.00	1.48	2.53	3.62	5.63	8.00	9.32	10.44	13.72	16.00	17.94	18.99	22.27	31.95	35.73

CROSS SECTION 245.00

NOTE: DESIGN SURFACES SHOWN HERE ARE FINISHED SURFACES. ALLOWANCE FOR TOPSOIL AND CAPPING LAYER ARE TO BE MADE IN ADDITIONAL TO THESE LEVELS.



FILL REQUIRED TO FORM WETLAND SURFACE TO COMPRISE OF GENERAL FILL (ZONE 1 TO 4 EXCAVATED MATERIAL FROM WEIR UPGRADE AND SEDIMENT EXCAVATED WITHIN THE POND). THE CONTRACTOR IS RESPONSIBLE FOR UNDERTAKING A GEOTECHNICAL ASSESSMENT OF THE EXISTING SEDIMENT AND PROPOSED FILL MATERIALS AND DEVELOPING A PLACEMENT AND COMPACTION APPROACH THAT WILL LIMIT LONG TERM SETTLEMENT TO 5%.

CAPPING LAYER COMPRISED OF ZONE 1 AND 2 EXCAVATED CLAY MATERIAL FROM WEIR UPGRADE (REFER TO SHEET IWC-23). REFER TO SPECIFICATION FOR COMPACTION REQUIREMENTS.

REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES	<i>(Signature)</i>	26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16

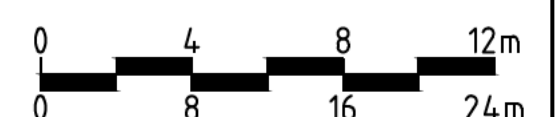


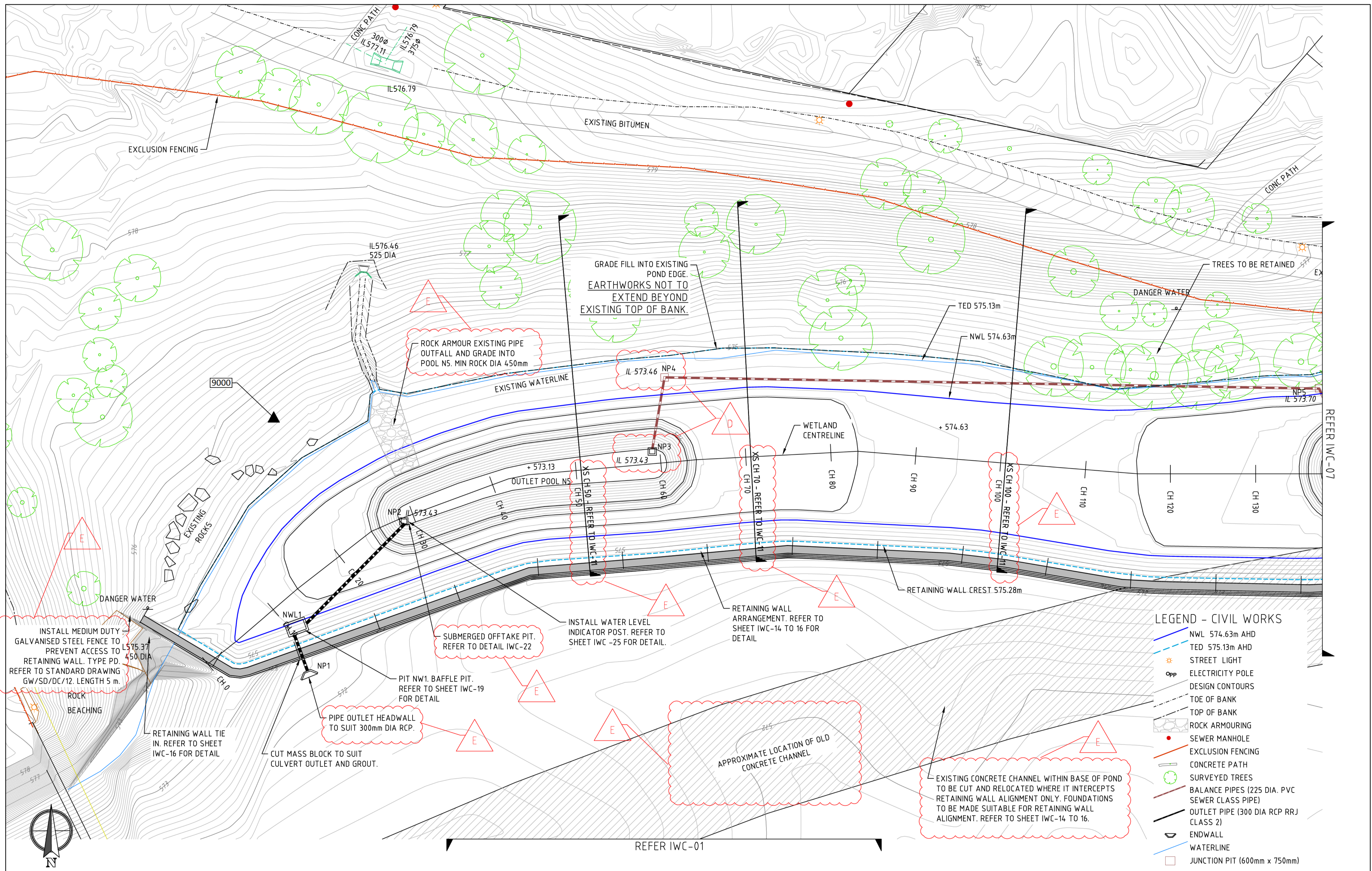
Alluvium Consulting Australia Pty. Ltd.
 ABN 76 151 119 792
 21-23 Stewart St
 Richmond Vic 3121
 T 61 3 9421 2532
 www.alluvium.com.au

DESIGNED: Schedule 2.2(a)(ii) DRAWN: CHECKED: APPROVED: PROJECT No: P315012

ACT GOVERNMENT
 ISABELLA PONDS WETLAND
 SOUTH WETLAND
 CROSS SECTIONS

REVISION: E	SHEET No.: IWC-05	ORIGINAL SIZE: A1	SCALE: 1:200
DATUM: m AHD (AGD66)		1:40	





REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16

NO GO ZONE
for Power Poles

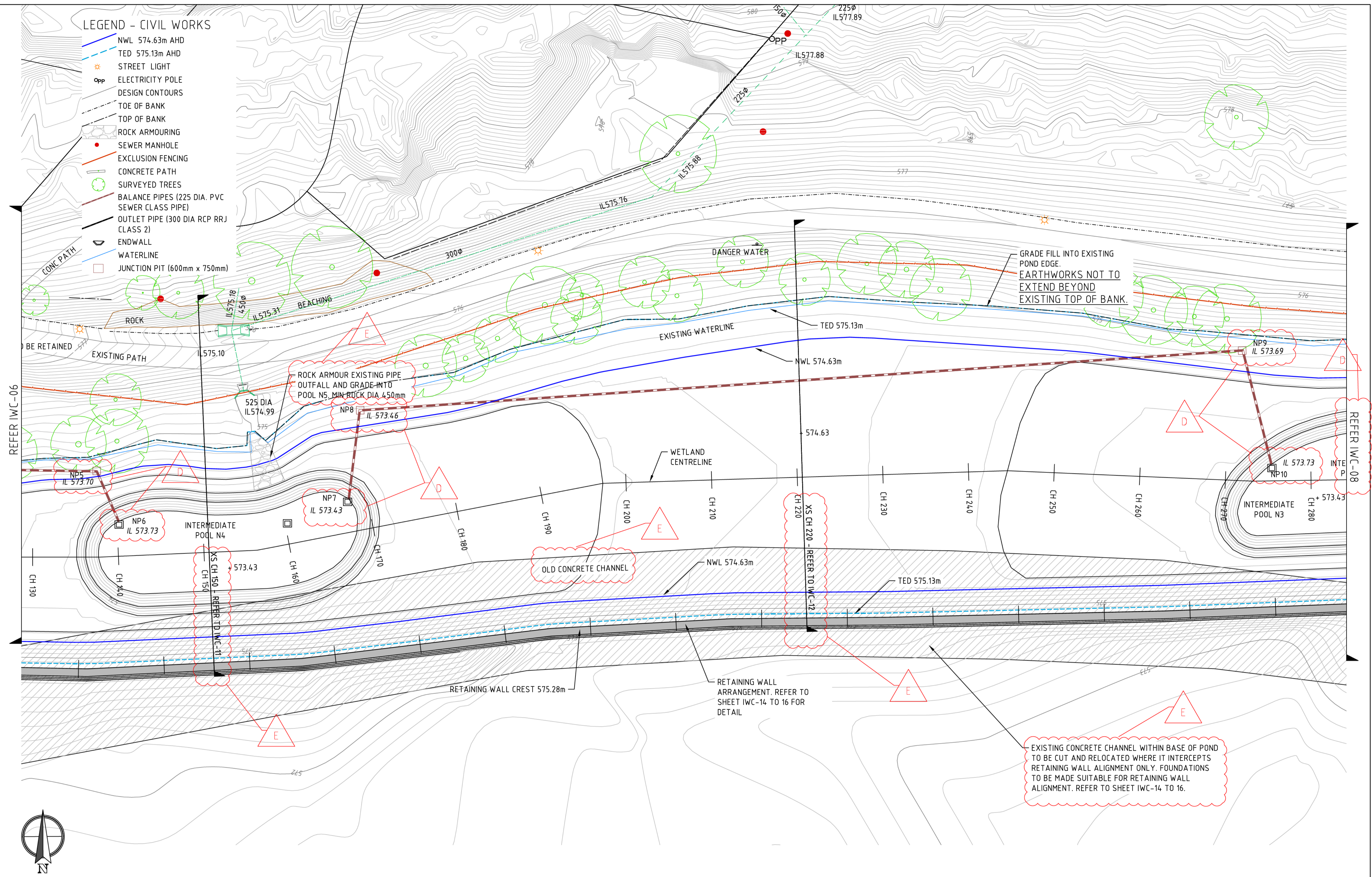
NO GO ZONE
for Towers

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 ABN 76 151 119 792
 21-23 Stewart St
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 T 61 3 9421 2532
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ACT GOVERNMENT
ISABELLA PONDS WETLAND
NORTH WETLAND
CHO - CH130

DESIGNED:	DRAWN:	CHECKED:	APPROVED:	PROJECT No:
Schedule 2.2(a)(ii)				
REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE: 1:200 @ A1	
E	IWC-06	A1		
DATUM: m AHD (AGD66)				



REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16

NO GO ZONE
for Power Poles

NO GO ZONE
for Towers

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 21-23 Stewart St
 Richmond Vic 3121
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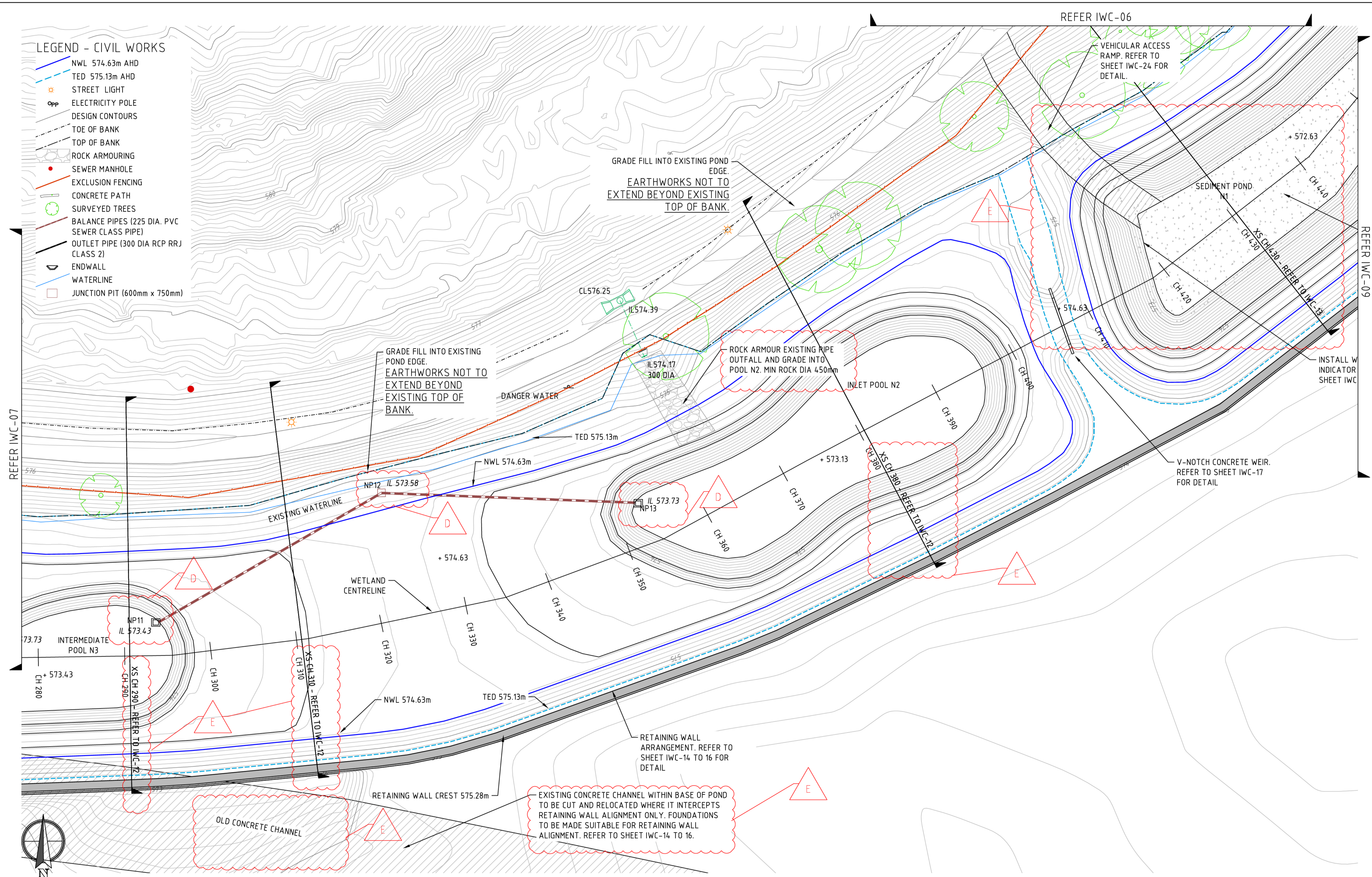
DESIGNED:	DRAWN:	CHECKED:	APPROVED:	PROJECT No:
Schedule 2.2(a)(ii)				P315012

ACT GOVERNMENT
ISABELLA PONDS WETLAND
NORTH WETLAND
CH130 - CH280

REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE:
E	IWC-07	A1	1:200 @ A1
DATUM: m AHD (AGD66)			

LEGEND - CIVIL WORKS

-  NWL 574.63m AHD
-  TED 575.13m AHD
-  STREET LIGHT
-  ELECTRICITY POLE
-  DESIGN CONTOURS
-  TOE OF BANK
-  TOP OF BANK
-  ROCK ARMOURING
-  SEWER MANHOLE
-  EXCLUSION FENCING
-  CONCRETE PATH
-  SURVEYED TREES
-  BALANCE PIPES (225 DIA. PVC SEWER CLASS PIPE)
-  OUTLET PIPE (300 DIA RCP R/R CLASS 2)
-  ENDWALL
-  WATERLINE
-  JUNCTION PIT (600mm x 750mm)



REFER IWC-07

REFER IWC-06

REFER IWC-09



REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16



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DESIGNED: **Schedule 2.2(a)(ii)** | DRAWN: | CHECKED: | APPROVED: | PROJECT No: P315012

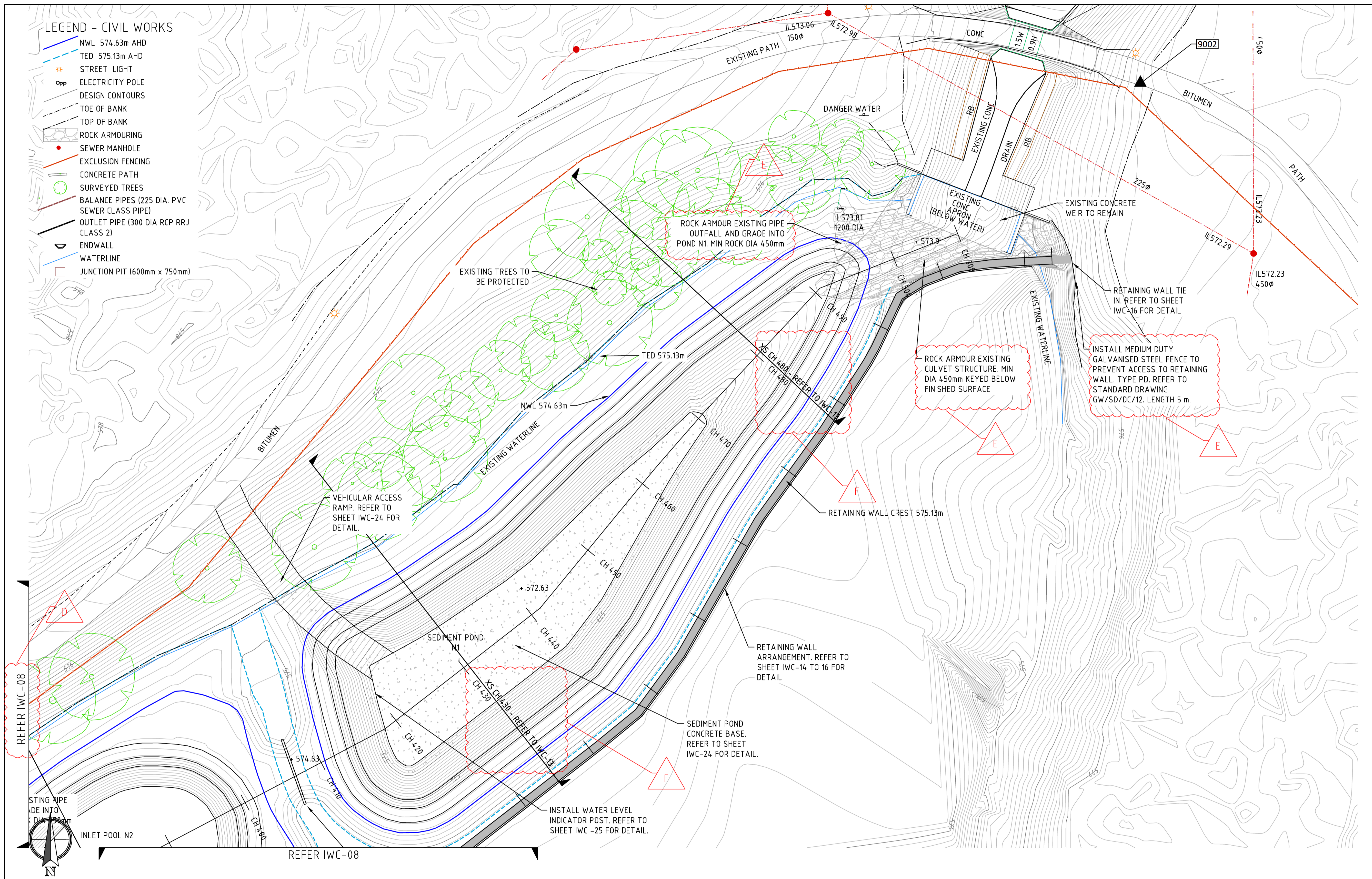
ACT GOVERNMENT
 ISABELLA PONDS WETLAND
 NORTH WETLAND
 CH280 - CH440

REVISION: E | SHEET No.: IWC-08 | ORIGINAL SIZE: A1 | SCALE: 1:200 @ A1


DATUM: m AHD (AGD66) | 0 4 8 12m

LEGEND - CIVIL WORKS


-  NWL 574.63m AHD
-  TED 575.13m AHD
-  STREET LIGHT
-  ELECTRICITY POLE
-  DESIGN CONTOURS
-  TOE OF BANK
-  TOP OF BANK
-  ROCK ARMOURING
-  SEWER MANHOLE
-  EXCLUSION FENCING
-  CONCRETE PATH
-  SURVEYED TREES
-  BALANCE PIPES (225 DIA. PVC SEWER CLASS PIPE)
-  OUTLET PIPE (300 DIA RCP RRJ CLASS 2)
-  ENDWALL
-  WATERLINE
-  JUNCTION PIT (600mm x 750mm)



REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16








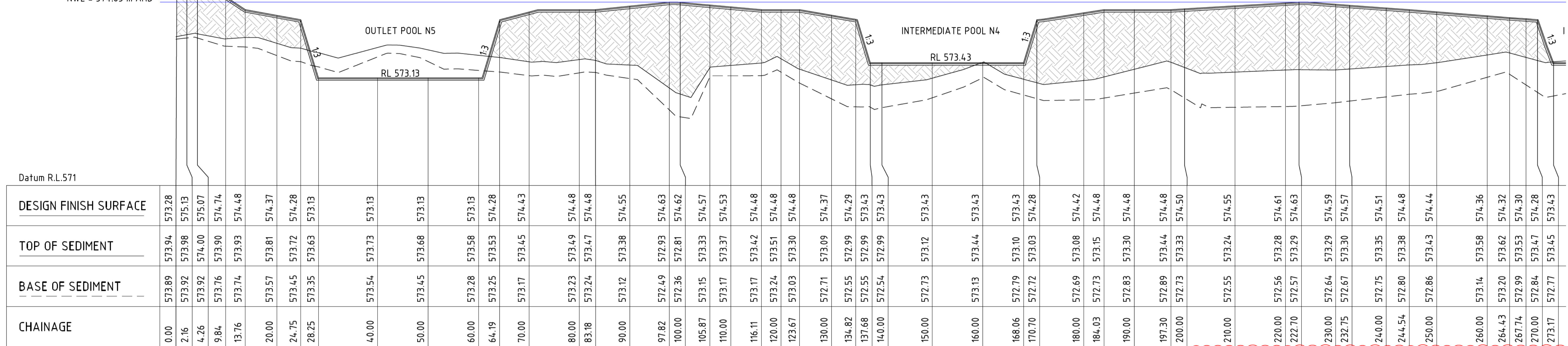




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 ABN 76 151 119 792
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 Richmond Vic 3121
 T 61 3 9421 2532
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ACT GOVERNMENT ISABELLA PONDS WETLAND NORTH WETLAND CH420 - CH506								
DESIGNED:	DRAWN:	CHECKED:	APPROVED:	PROJECT No:	REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE:
Schedule 2.2(a)(ii)				P315012	E	IWC-09	A1	1:200 @ A1
						DATUM: m AHD (AGD66)		

TDD = 575.13 m AHD
 NWL = 574.63 m AHD



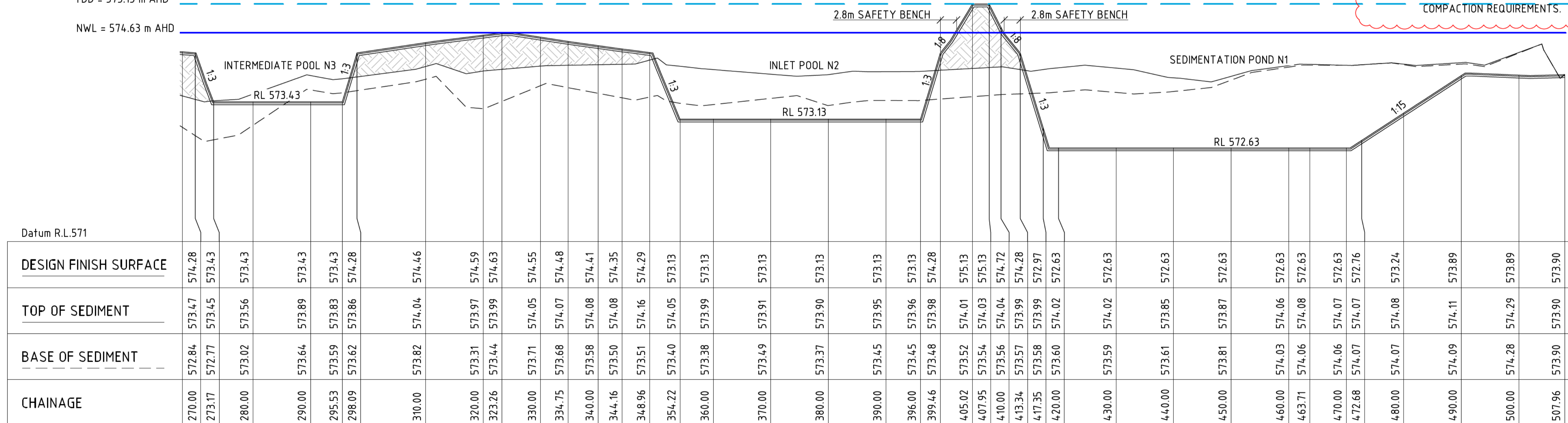
NORTH WETLAND - LONGITUDINAL SECTION

NOTE:
 DESIGN SURFACES SHOWN HERE ARE FINISHED SURFACES. ALLOWANCE FOR TOPSOIL AND CAPPING LAYER ARE TO BE MADE IN ADDITIONAL TO THESE LEVELS.

FILL REQUIRED TO FORM WETLAND SURFACE TO COMPRISE OF GENERAL FILL (ZONE 1 TO 4 EXCAVATED MATERIAL FROM WEIR UPGRADE AND SEDIMENT EXCAVATED WITHIN THE POND). THE CONTRACTOR IS RESPONSIBLE FOR UNDERTAKING A GEOTECHNICAL ASSESSMENT OF THE EXISTING SEDIMENT AND PROPOSED FILL MATERIALS AND DEVELOPING A PLACEMENT AND COMPACTION APPROACH THAT WILL LIMIT LONG TERM SETTLEMENT TO 5%.

CAPPING LAYER COMPRISED OF ZONE 1 AND 2 EXCAVATED CLAY MATERIAL FROM WEIR UPGRADE (REFER TO SHEET IWC-23). REFER TO SPECIFICATION FOR COMPACTION REQUIREMENTS.

TDD = 575.13 m AHD
 NWL = 574.63 m AHD



REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16

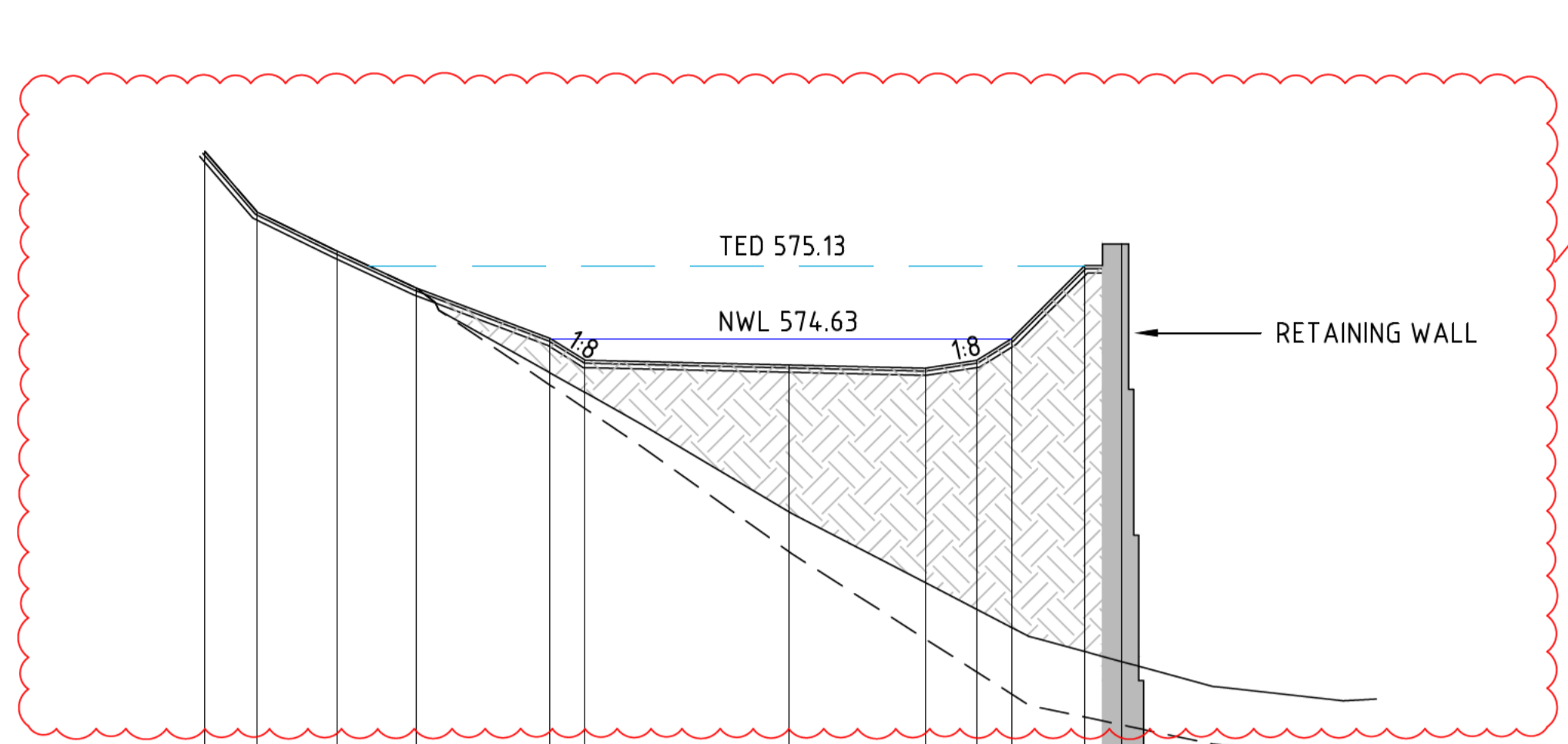


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 Richmond Vic 3121
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ACT GOVERNMENT
 ISABELLA PONDS WETLAND
 NORTH WETLAND
 LONGITUDINAL SECTION

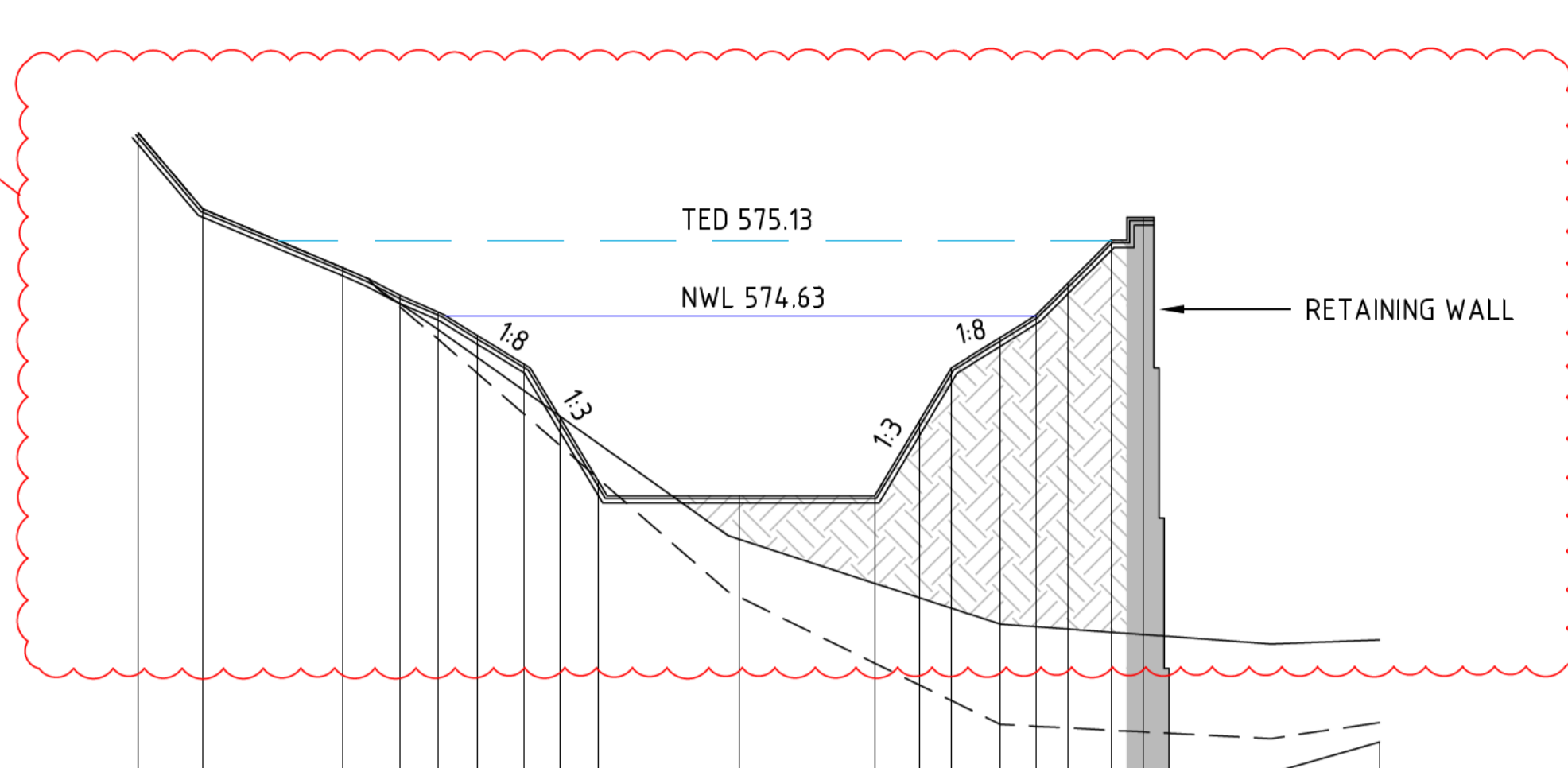
DESIGNED: DRAWN: CHECKED: APPROVED: PROJECT No:
 Schedule 2.2(a)(ii) P315012

REVISION: SHEET No.: ORIGINAL SIZE: A1 SCALE: HORZ: 0 10 20 25m VERT: 0 1 2 2.5m
 E IWC-10 DATUM: m AHD (AGD66)



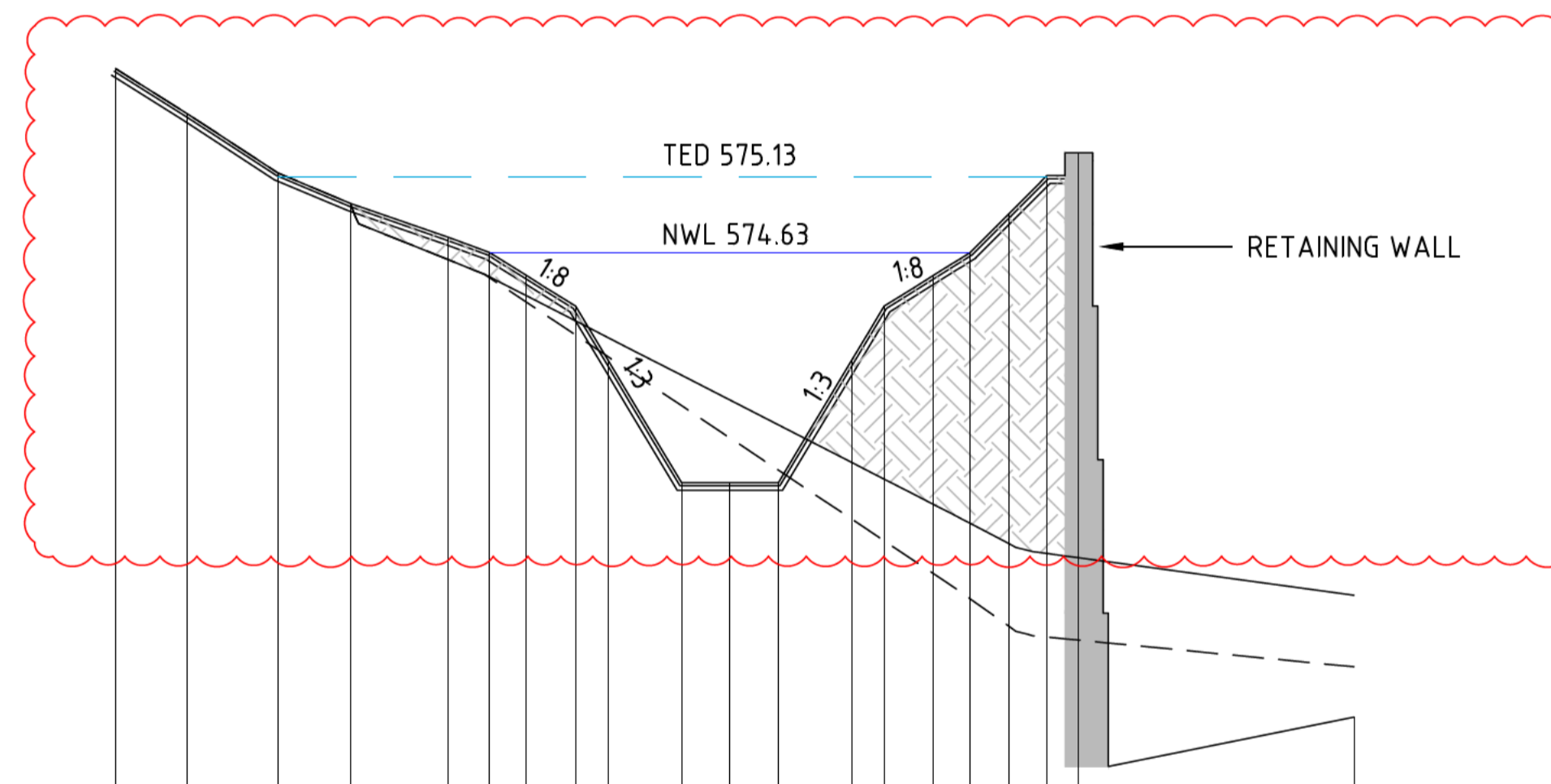
Datum RL 571											
DESIGN SURFACE	575.91	575.91	575.50	575.23	574.98	574.63	574.48	574.45	574.43	574.48	574.63
SEDIMENT TOP	575.91	575.50	575.23	574.98	574.63	574.48	574.45	574.43	574.48	574.63	574.63
SEDIMENT BASE	575.91	575.50	575.23	574.98	574.63	574.48	574.45	574.43	574.48	574.63	574.63
DESIGN OFFSET	-20.06	-18.26	-15.54	-12.80	-10.06	-7.32	-4.58	-1.84	0.90	3.64	6.38

CROSS SECTION 70.00



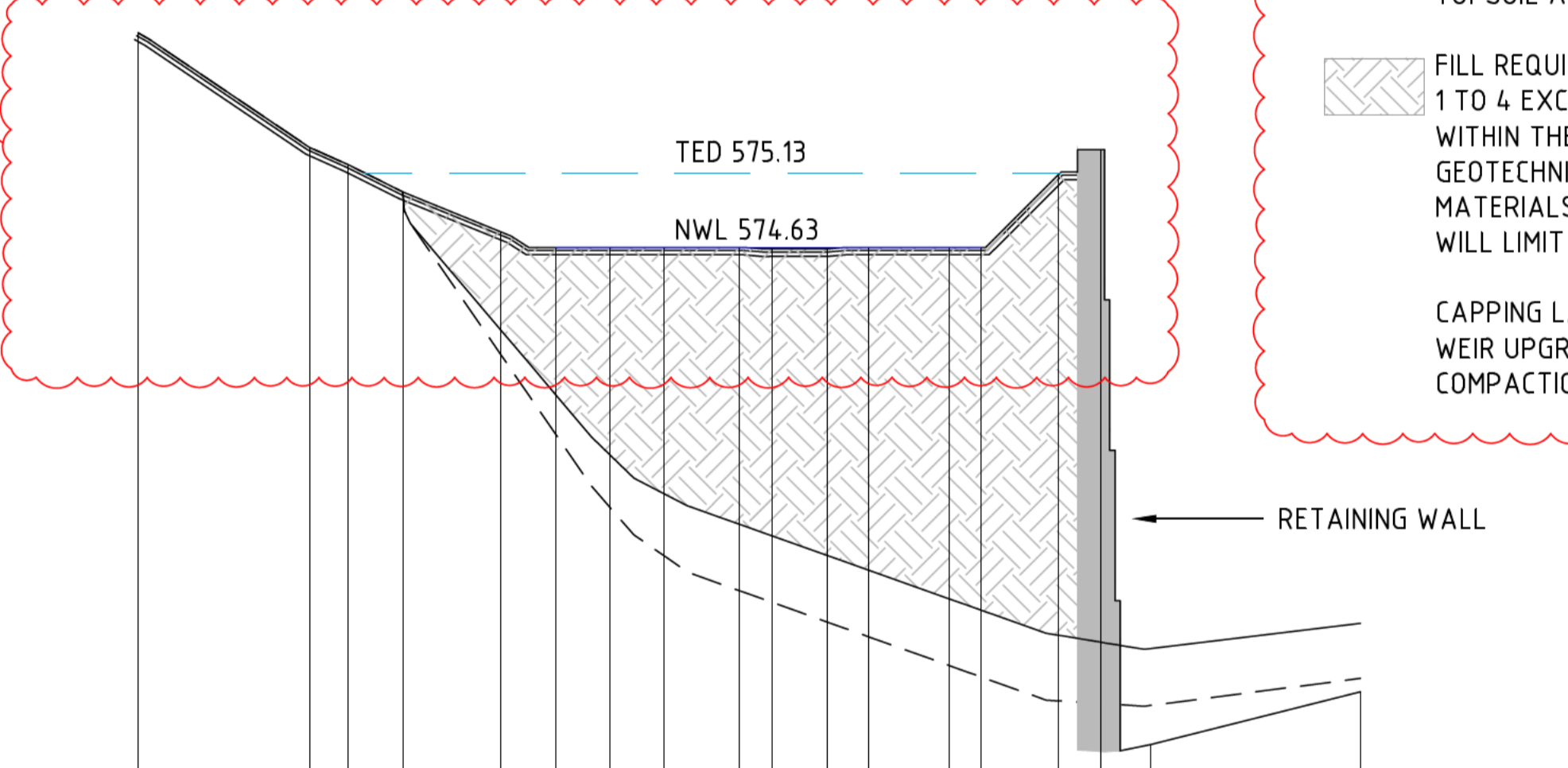
Datum RL 571											
DESIGN SURFACE	575.84	575.34	574.95	574.76	574.65	574.50	574.31	573.95	573.53	573.43	573.43
SEDIMENT TOP	575.84	575.34	574.95	574.76	574.65	574.50	574.31	573.95	573.53	573.43	573.43
SEDIMENT BASE	575.84	575.34	574.95	574.76	574.65	574.50	574.31	573.95	573.53	573.43	573.43
DESIGN OFFSET	-20.00	-17.84	-13.20	-11.28	-10.00	-8.72	-7.16	-5.97	-4.69	0.00	4.51

CROSS SECTION 150.00



Datum RL 571											
DESIGN SURFACE	575.83	575.53	575.15	574.95	574.73	574.63	574.48	574.33	574.19	574.03	574.60
SEDIMENT TOP	575.83	575.53	575.15	574.95	574.73	574.63	574.48	574.33	574.19	574.03	574.60
SEDIMENT BASE	575.83	575.53	575.15	574.95	574.73	574.63	574.48	574.33	574.19	574.03	574.60
DESIGN OFFSET	-20.00	-17.66	-14.71	-12.35	-9.19	-7.82	-6.62	-5.02	-3.76	-1.56	0.00

CROSS SECTION 50.00



Datum RL 571											
DESIGN SURFACE	576.06	575.30	575.18	575.00	574.73	574.63	574.63	574.63	574.63	574.63	574.67
SEDIMENT TOP	576.06	575.30	575.18	575.00	574.73	574.63	574.63	574.63	574.63	574.63	574.67
SEDIMENT BASE	576.06	575.30	575.18	575.00	574.73	574.63	574.63	574.63	574.63	574.63	574.67
DESIGN OFFSET	-20.00	-14.30	-13.02	-11.19	-7.95	-6.11	-4.31	-2.52	0.00	1.08	2.95

CROSS SECTION 100.00

NOTE:
DESIGN SURFACES SHOWN HERE ARE FINISHED SURFACES. ALLOWANCE FOR TOPSOIL AND CAPPING LAYER ARE TO BE MADE IN ADDITIONAL TO THESE LEVELS.

FILL REQUIRED TO FORM WETLAND SURFACE TO COMPRISE OF GENERAL FILL (ZONE 1 TO 4 EXCAVATED MATERIAL FROM WEIR UPGRADE AND SEDIMENT EXCAVATED WITHIN THE POND). THE CONTRACTOR IS RESPONSIBLE FOR UNDERTAKING A GEOTECHNICAL ASSESSMENT OF THE EXISTING SEDIMENT AND PROPOSED FILL MATERIALS AND DEVELOPING A PLACEMENT AND COMPACTION APPROACH THAT WILL LIMIT LONG TERM SETTLEMENT TO 5%.

CAPPING LAYER COMPRISED OF ZONE 1 AND 2 EXCAVATED CLAY MATERIAL FROM WEIR UPGRADE (REFER TO SHEET IWC-23). REFER TO SPECIFICATION FOR COMPACTION REQUIREMENTS.

REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES	[Signature]	26.09.16
D	TENDER ISSUE - REVISION	[Signature]	08.09.16
C	TENDER ISSUE - REVISION	[Signature]	29.08.16
B	TENDER ISSUE	[Signature]	05.07.16
A	FOR DOCUMENTATION READINESS	[Signature]	06.05.16



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ABN 76 151 119 792
21-23 Stewart St
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DESIGNED: [Signature] DRAWN: [Signature] CHECKED: [Signature] APPROVED: [Signature] PROJECT No: P315012

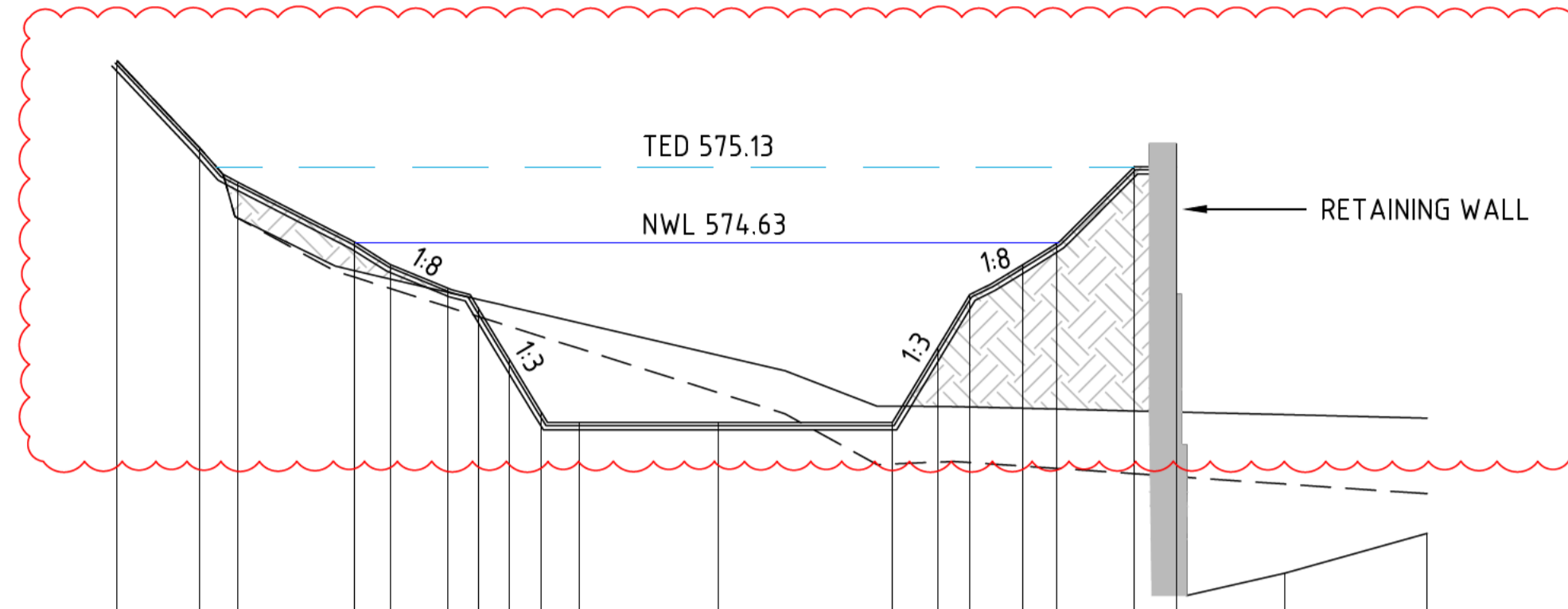
ACT GOVERNMENT
ISABELLA PONDS WETLAND
NORTH WETLAND
CROSS SECTIONS

REVISION: E SHEET No.: IWC-11 ORIGINAL SIZE: A1 SCALE: HORZ 0 4 8 12m VERT 0 1 2 3 DATUM: m AHD (AGD66)

NOTE:
DESIGN SURFACES SHOWN HERE ARE FINISHED SURFACES. ALLOWANCE FOR TOPSOIL AND CAPPING LAYER ARE TO BE MADE IN ADDITIONAL TO THESE LEVELS.

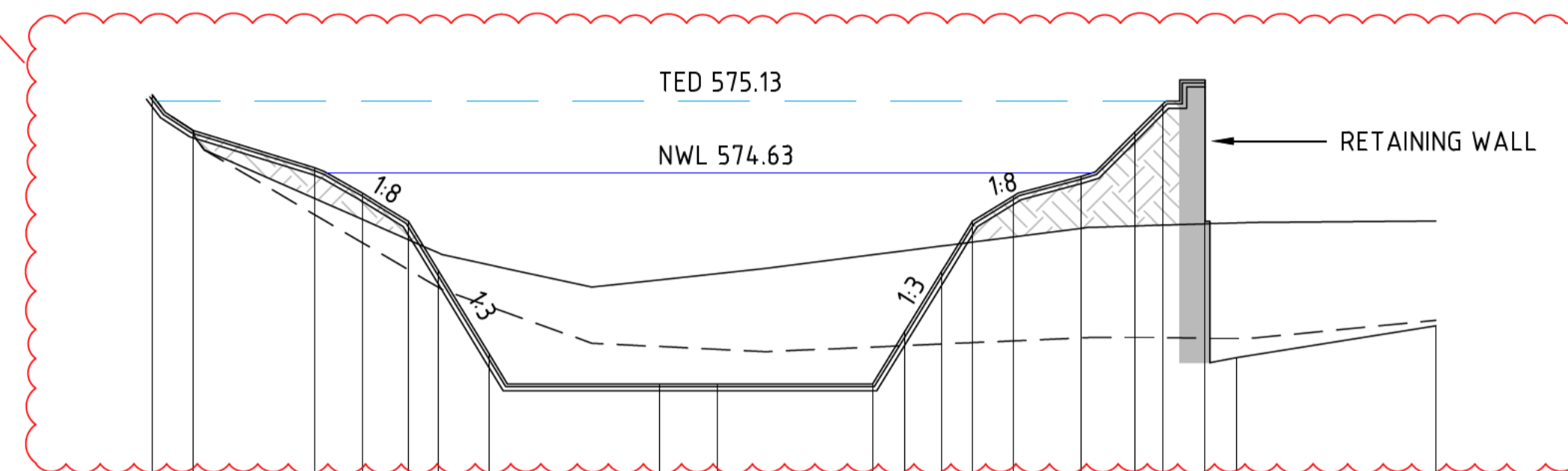
FILL REQUIRED TO FORM WETLAND SURFACE TO COMPRISE OF GENERAL FILL (ZONE 1 TO 4 EXCAVATED MATERIAL FROM WEIR UPGRADE AND SEDIMENT EXCAVATED WITHIN THE POND). THE CONTRACTOR IS RESPONSIBLE FOR UNDERTAKING A GEOTECHNICAL ASSESSMENT OF THE EXISTING SEDIMENT AND PROPOSED FILL MATERIALS AND DEVELOPING A PLACEMENT AND COMPACTION APPROACH THAT WILL LIMIT LONG TERM SETTLEMENT TO 5%.

CAPPING LAYER COMPRISED OF ZONE 1 AND 2 EXCAVATED CLAY MATERIAL FROM WEIR UPGRADE (REFER TO SHEET IWC-23). REFER TO SPECIFICATION FOR COMPACTION REQUIREMENTS.



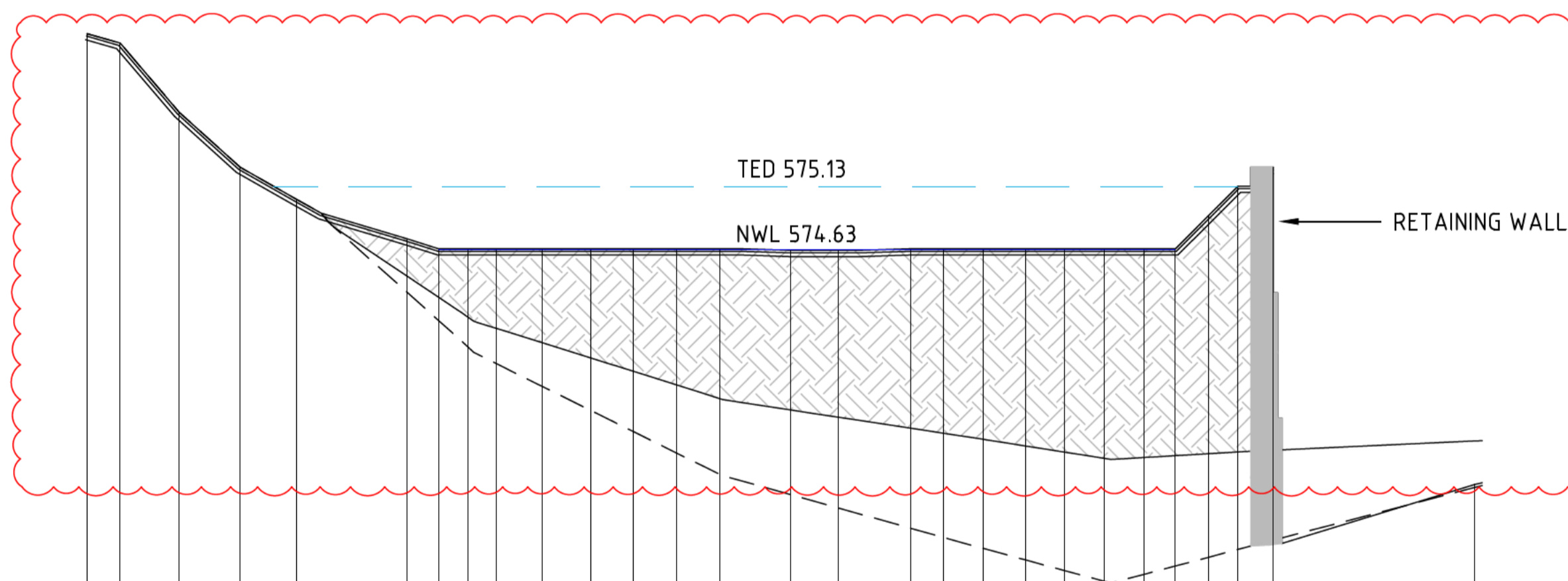
Datum RL 572	
DESIGN SURFACE	575.03
SEDIMENT TOP	575.83
SEDIMENT BASE	575.83
DESIGN OFFSET	-20.00

CROSS SECTION 290.00



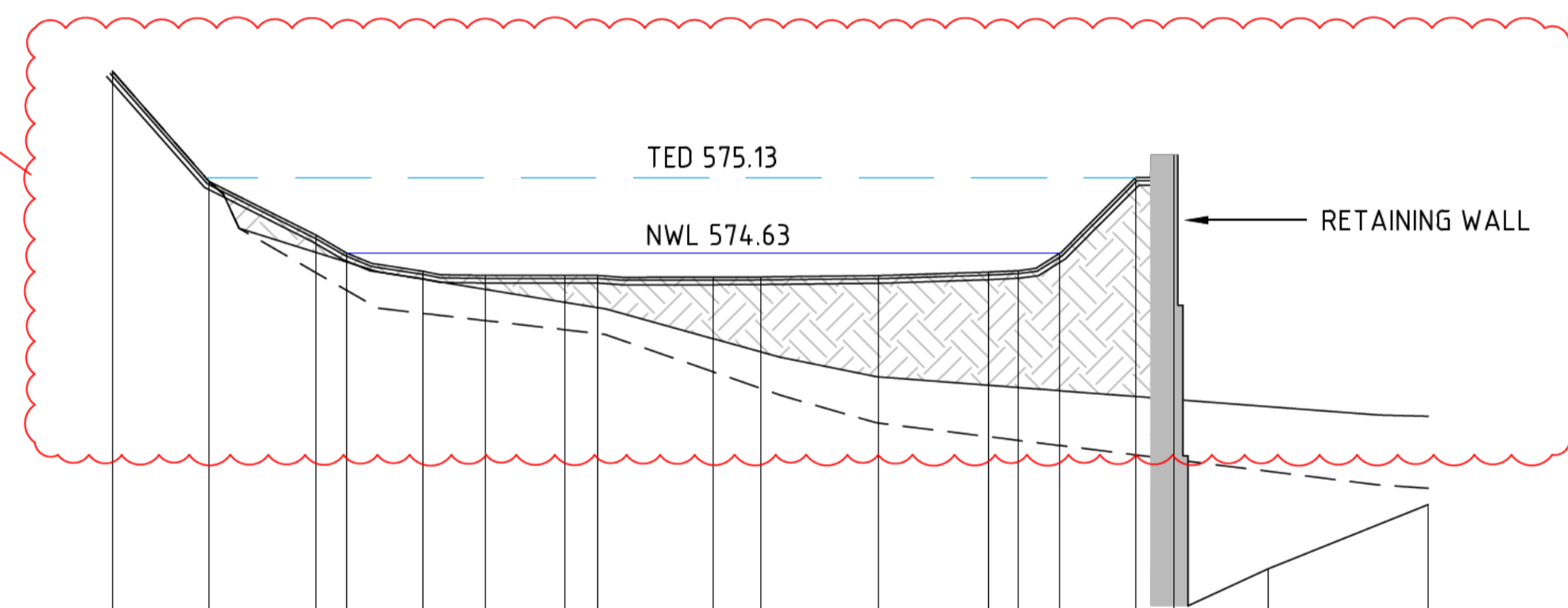
Datum RL 572	
DESIGN SURFACE	575.17
SEDIMENT TOP	575.17
SEDIMENT BASE	575.17
DESIGN OFFSET	-20.00

CROSS SECTION 380.00



Datum RL 571	
DESIGN SURFACE	576.35
SEDIMENT TOP	576.35
SEDIMENT BASE	576.35
DESIGN OFFSET	-20.00

CROSS SECTION 220.00



Datum RL 572	
DESIGN SURFACE	575.84
SEDIMENT TOP	575.84
SEDIMENT BASE	575.84
DESIGN OFFSET	-20.00

CROSS SECTION 310.00

REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES	[Signature]	26.09.16
D	TENDER ISSUE - REVISION	[Signature]	08.09.16
C	TENDER ISSUE - REVISION	[Signature]	29.08.16
B	TENDER ISSUE	[Signature]	05.07.16
A	FOR DOCUMENTATION READINESS	[Signature]	06.05.16




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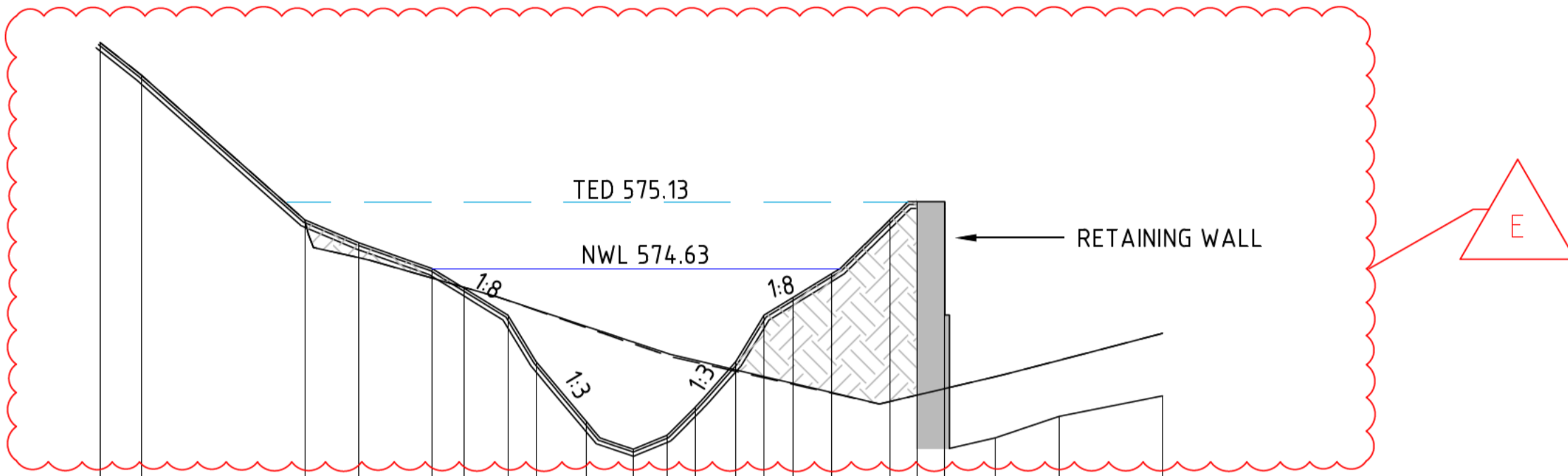
ACT GOVERNMENT
ISABELLA PONDS WETLAND
NORTH WETLAND
CROSS SECTIONS

DESIGNED: Schedule 2.2(a)(ii)	DRAWN:	CHECKED:	APPROVED:	PROJECT No: P315012
REVISION: E	SHEET No.: IWC-12	ORIGINAL SIZE: A1	SCALE: HORZ 0 4 8 12m	VERT 0 1 2 3
DATUM: m AHD (AGD66)				

NOTE:
DESIGN SURFACES SHOWN HERE ARE FINISHED SURFACES. ALLOWANCE FOR TOPSOIL AND CAPPING LAYER ARE TO BE MADE IN ADDITIONAL TO THESE LEVELS.

 FILL REQUIRED TO FORM WETLAND SURFACE TO COMPRISE OF GENERAL FILL (ZONE 1 TO 4 EXCAVATED MATERIAL FROM WEIR UPGRADE AND SEDIMENT EXCAVATED WITHIN THE POND). THE CONTRACTOR IS RESPONSIBLE FOR UNDERTAKING A GEOTECHNICAL ASSESSMENT OF THE EXISTING SEDIMENT AND PROPOSED FILL MATERIALS AND DEVELOPING A PLACEMENT AND COMPACTION APPROACH THAT WILL LIMIT LONG TERM SETTLEMENT TO 5%.

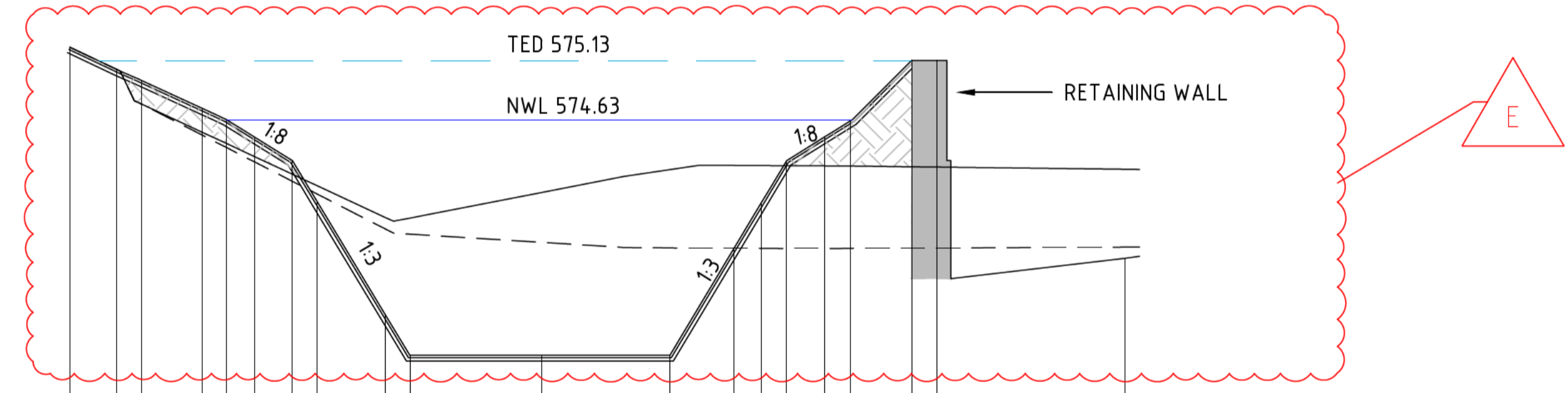
CAPPING LAYER COMPRISED OF ZONE 1 AND 2 EXCAVATED CLAY MATERIAL FROM WEIR UPGRADE (REFER TO SHEET IWC-23). REFER TO SPECIFICATION FOR COMPACTION REQUIREMENTS.



Datum RL 573

DESIGN SURFACE	576.33	576.33	574.99	574.82	574.63	574.48	574.28	573.93	573.48	573.27	573.38	573.59	573.93	574.28	574.41	574.59	575.00	575.19	575.19	573.96	573.52	573.67
SEDIMENT TOP	576.33	576.08	574.99	574.71	574.56	574.49	574.39	574.32	573.93	574.08	573.99	573.94	573.87	573.82	574.41	573.70	573.63	573.68	573.73	573.82	573.94	574.14
SEDIMENT BASE	576.33	576.08	574.99	574.71	574.56	574.49	574.39	574.32	573.93	574.07	573.98	573.94	573.87	573.82	574.41	573.70	573.63	573.68	573.73	573.82	573.94	574.14
DESIGN OFFSET	-20.00	-18.65	-12.32	-10.29	-7.55	-6.33	-4.70	-3.63	-1.75	0.00	1.26	2.33	3.85	4.92	6.02	7.44	8.64	10.65	11.69	15.60	15.98	19.87

CROSS SECTION 480.00



Datum RL 572

DESIGN SURFACE	575.24	575.24	574.52	574.63	574.48	574.28	573.93	573.48	572.97	572.63	572.63	573.54	573.54	574.28	574.48	574.62	575.13	575.13	574.23	573.55	573.45	
SEDIMENT TOP	575.24	575.05	574.52	574.43	574.31	574.28	574.07	573.93	573.80	573.79	572.63	574.01	573.54	574.24	574.24	574.28	574.23	574.23	574.23	573.55	573.55	574.21
SEDIMENT BASE	575.24	575.05	574.52	574.43	574.31	574.28	574.07	573.93	573.80	573.79	572.63	574.01	573.54	574.24	574.24	574.28	574.23	574.23	574.23	573.55	573.55	574.21
DESIGN OFFSET	-20.00	-18.01	-16.97	-14.39	-13.38	-12.17	-10.56	-9.51	-6.62	-5.59	0.00	5.44	6.16	9.34	10.39	11.99	13.08	15.69	16.76	17.35	24.75	

CROSS SECTION 430.00

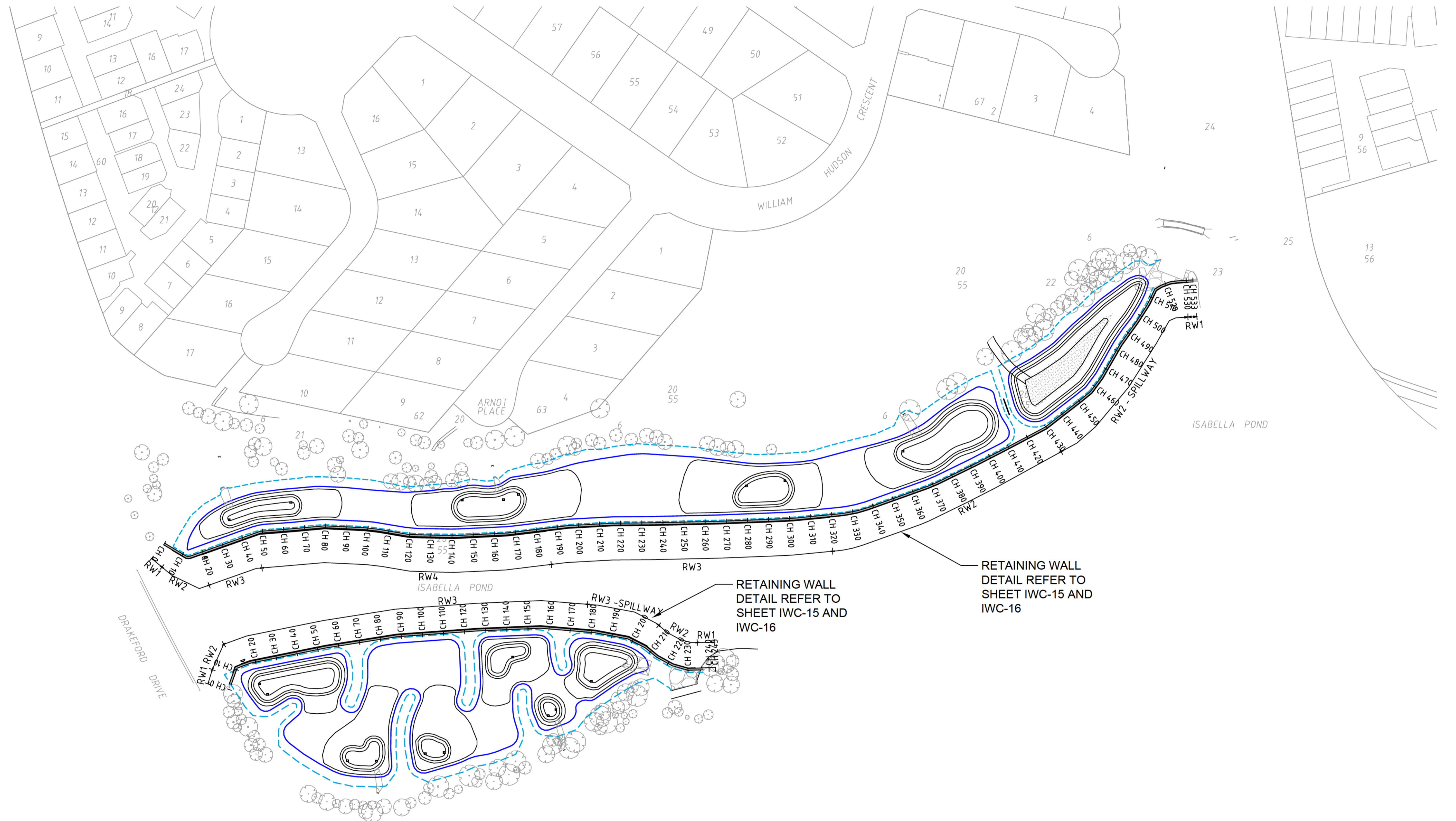
REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES	[Redacted]	26.09.16
D	TENDER ISSUE - REVISION	[Redacted]	08.09.16
C	TENDER ISSUE - REVISION	[Redacted]	29.08.16
B	TENDER ISSUE	[Redacted]	05.07.16
A	FOR DOCUMENTATION READINESS	[Redacted]	06.05.16



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**ACT GOVERNMENT
ISABELLA PONDS WETLAND
NORTH WETLAND
CROSS SECTIONS**

DESIGNED:	DRAWN:	CHECKED:	APPROVED:	PROJECT No:
Schedule 2.2(a)(ii)				
REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE:	
E	IWC-13	A1	HORZ	0 4 8 12m
		DATUM: m AHD (AGD66)	VERT	0 1 2 3



RETAINING WALL
DETAIL REFER TO
SHEET IWC-15 AND
IWC-16

RETAINING WALL
DETAIL REFER TO
SHEET IWC-15 AND
IWC-16

STRUCTURAL DESIGN
COMPLETED BY:



122/24 Londale St
Braddon ACT 2612
P (02) 6201 0200
E sellick@sellickconsultants.com.au
W www.sellickconsultants.com.au

REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16

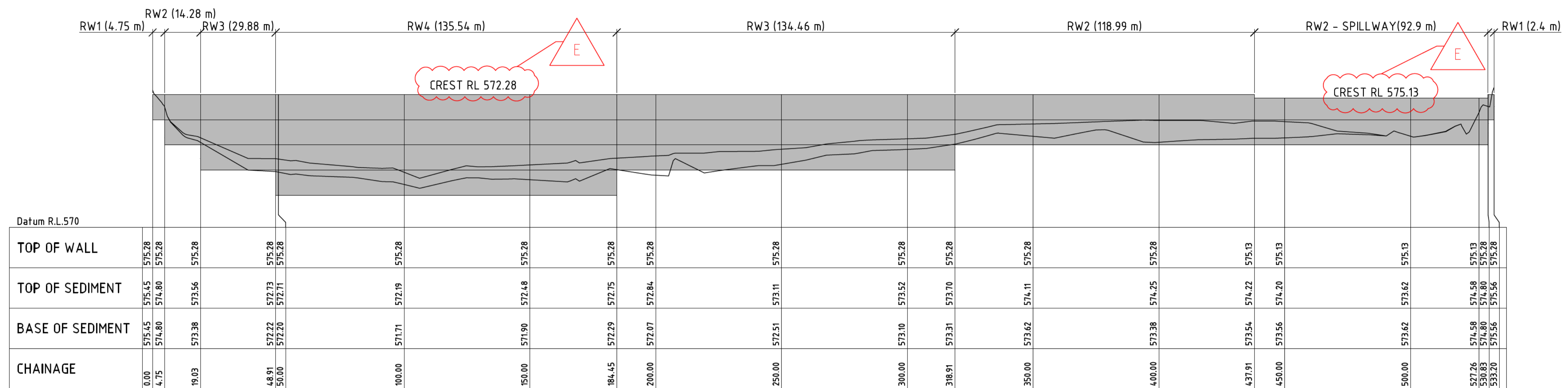


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21-23 Stewart St
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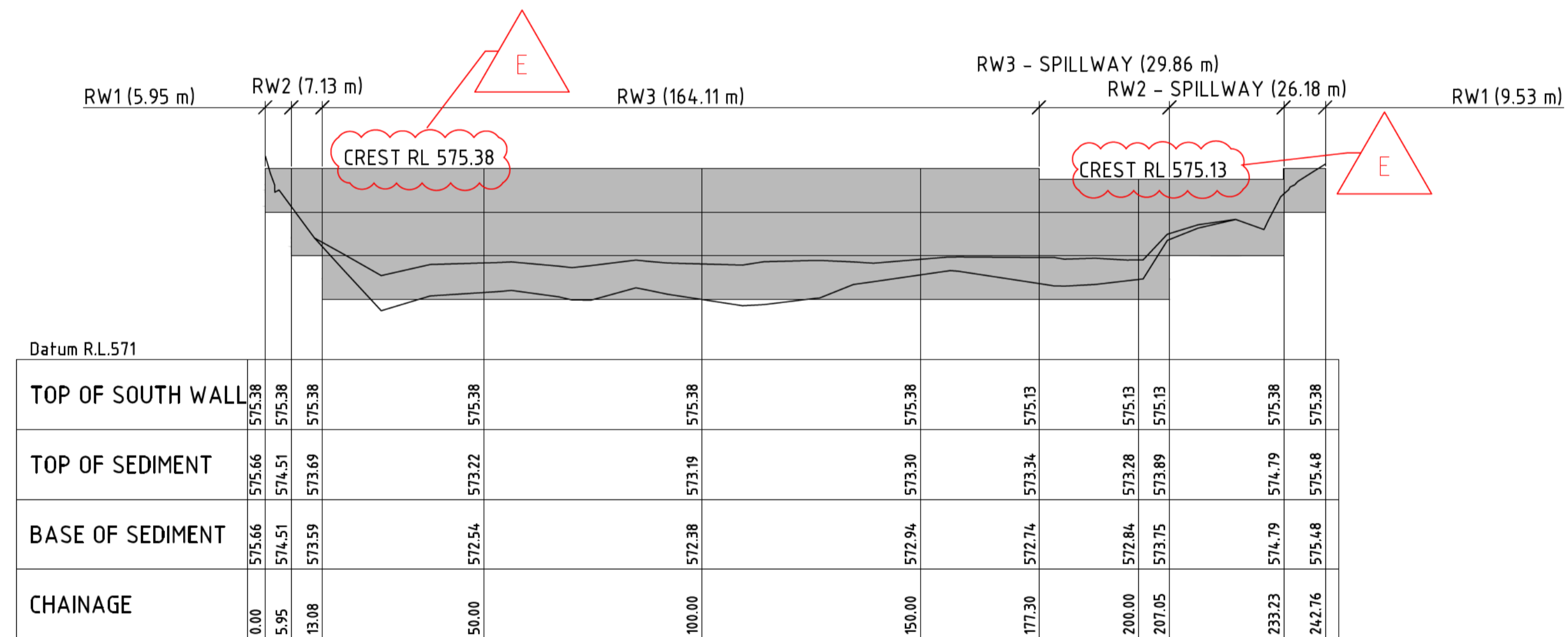
DESIGNED:	DRAWN:	CHECKED:	APPROVED:	PROJECT No:
Schedule 2.2(a)(ii)				P315012

ACT GOVERNMENT
ISABELLA PONDS WETLAND
RETAINING WALL PLAN

REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE:
E	IWC-14	A1	1:1000 @ A1
DATUM: m AHD (AGD66)			



LONGITUDINAL SECTION Top edge - WL side



LONGITUDINAL SECTION Top edge - WL side

STRUCTURAL DESIGN
COMPLETED BY:



122/24 Londale St
Braddon ACT 2612
P (02) 6201 0200
E sellick@sellickconsultants.com.au
W www.sellickconsultants.com.au

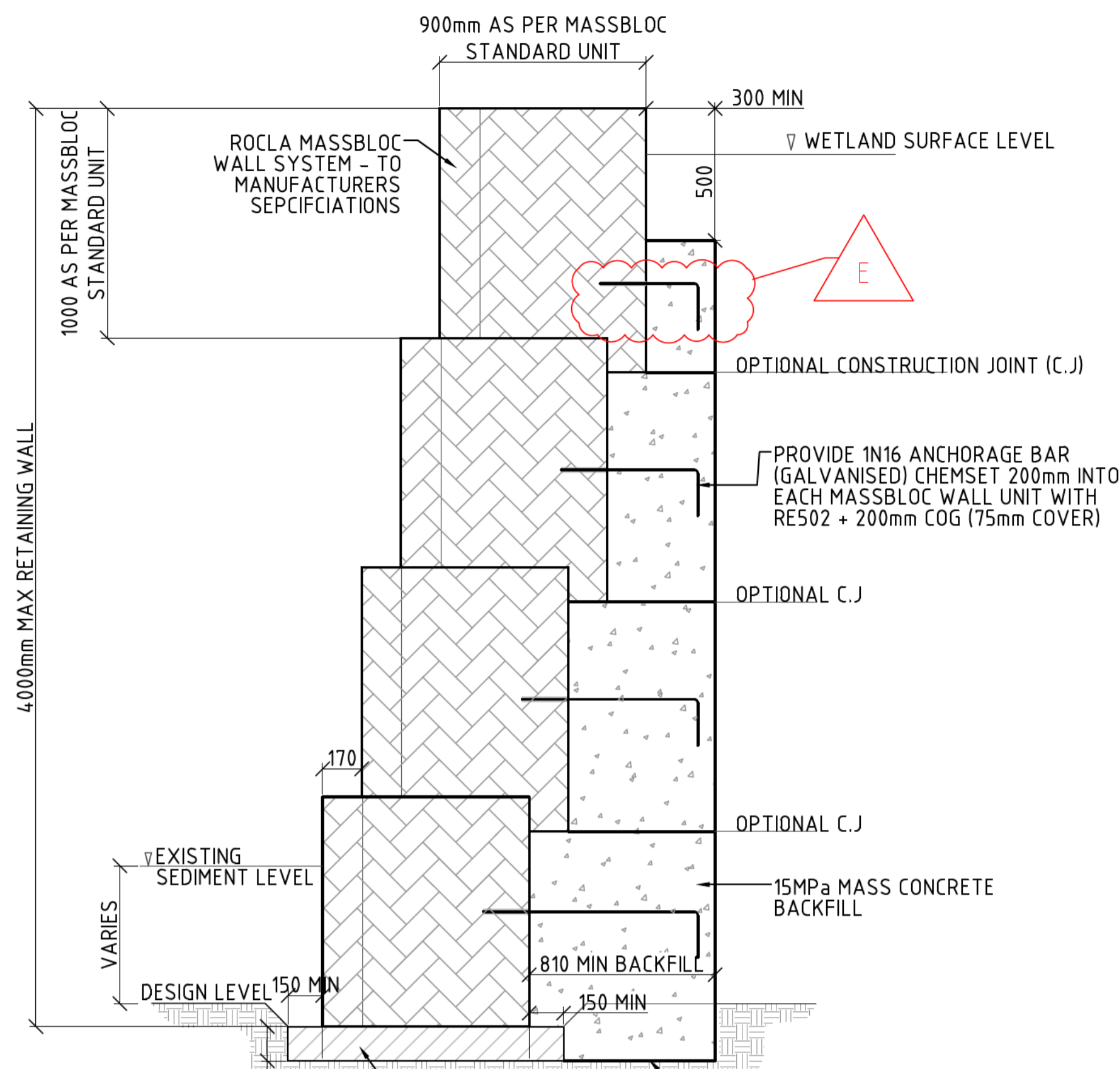
REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16



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DESIGNED:	DRAWN:	CHECKED:	APPROVED:	PROJECT No:
Schedule 2.2(a)(ii)				P315012

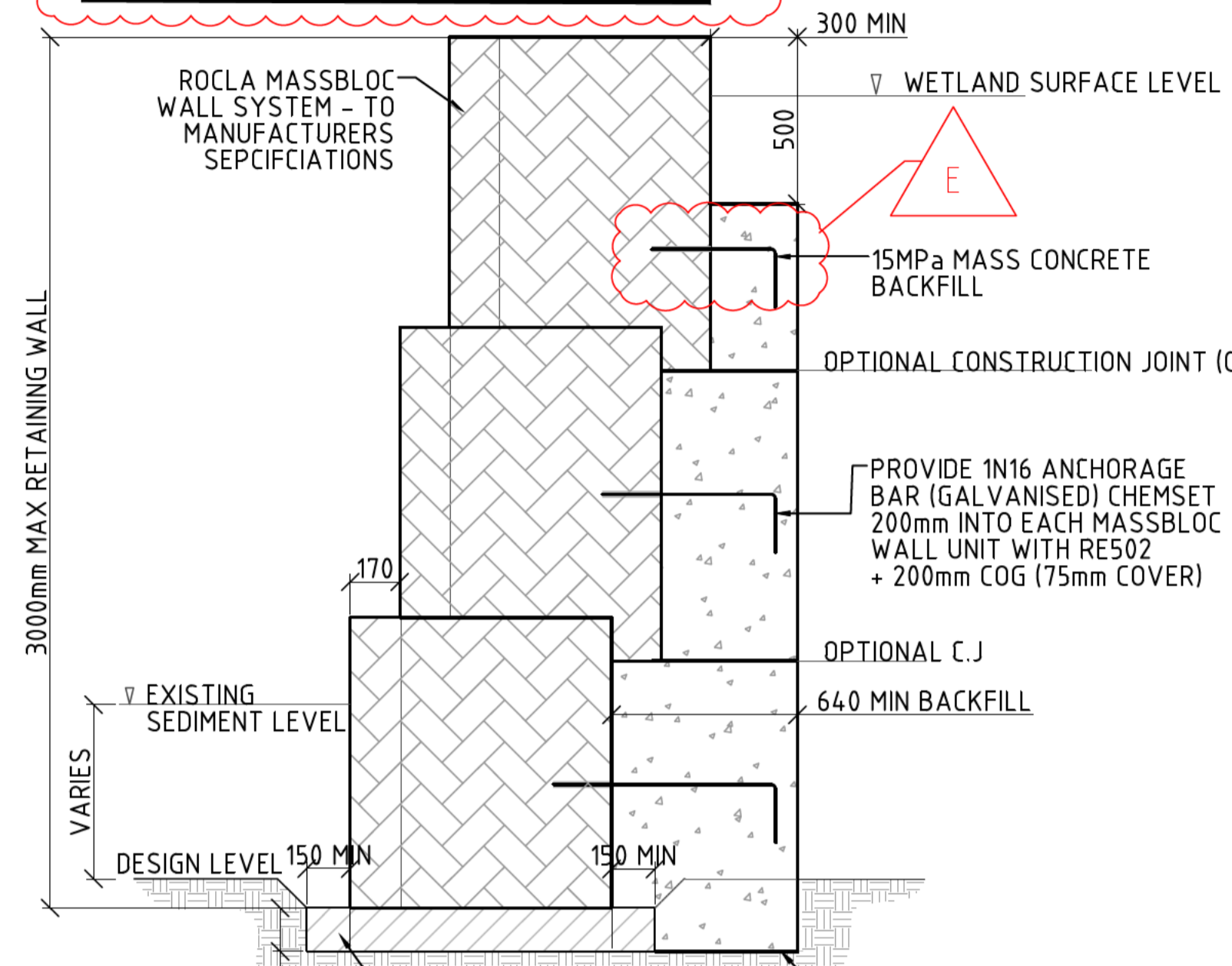
ACT GOVERNMENT ISABELLA PONDS WETLAND RETAINING WALL LONGITUDINAL SECTIONS		REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE:
		E	IWC-15	A1	
		DATUM: m AHD (AGD66)			



MASSBLOC RETAINING WALL (RW4)

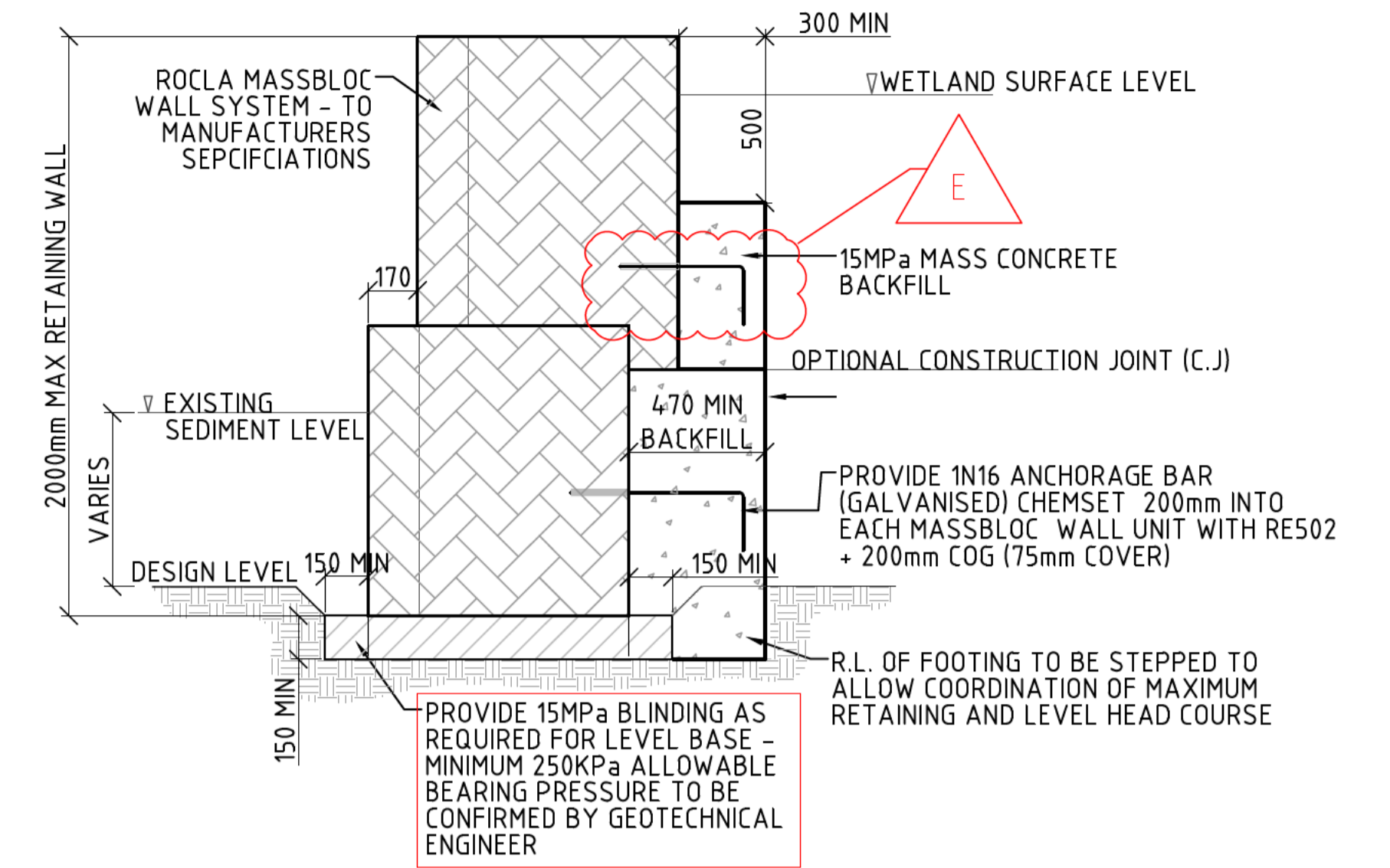
SCALE = 1:20
NOTE: EXTENTS OF WALL TO BE CONFIRMED ON SITE
FINAL DESIGN SUBJECT TO GEOTECHNICAL CONDITIONS

RETAINING WALL DESIGN PARAMETERS:
 $\gamma = 18kN/m^3$
 $k_a = 0.4$
 SURCHARGE LOAD $Q = 5.0kPa$
 NOTE: SATURATED UNIT WEIGHT OF BACKFILL TO BE CONFIRMED BY GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION. WHERE SATURATED UNIT WEIGHT OF $18kN/m^3$ EXCEEDED FOLLOWING TESTING DESIGN TO BE VERIFIED BY STRUCTURAL ENGINEER.



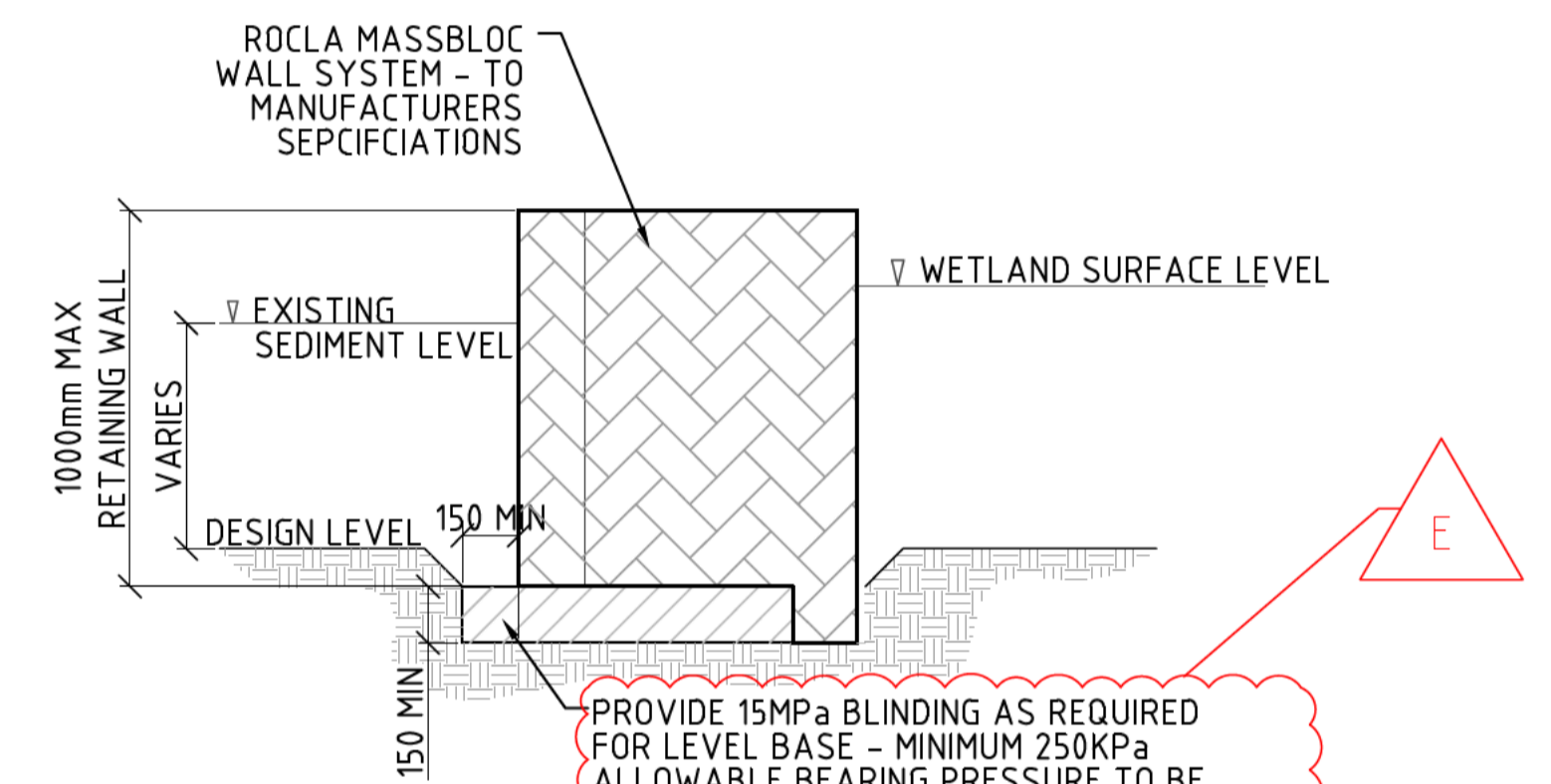
MASSBLOC RETAINING WALL (RW3)

SCALE = 1:20
NOTE: EXTENTS OF WALL TO BE CONFIRMED ON SITE
FINAL DESIGN SUBJECT TO GEOTECHNICAL CONDITIONS



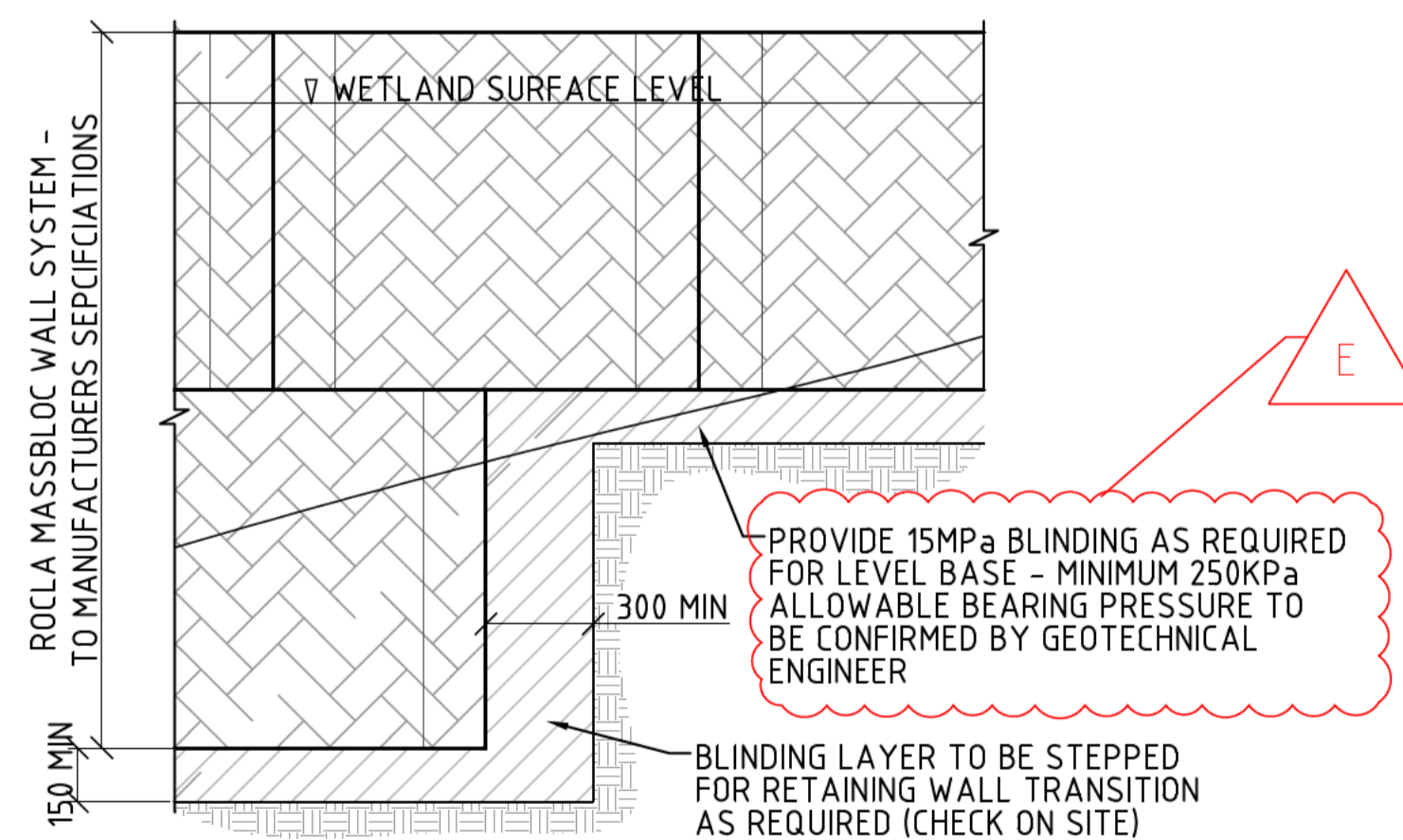
MASSBLOC RETAINING WALL (RW2)

SCALE = 1:20
NOTE: EXTENTS OF WALL TO BE CONFIRMED ON SITE



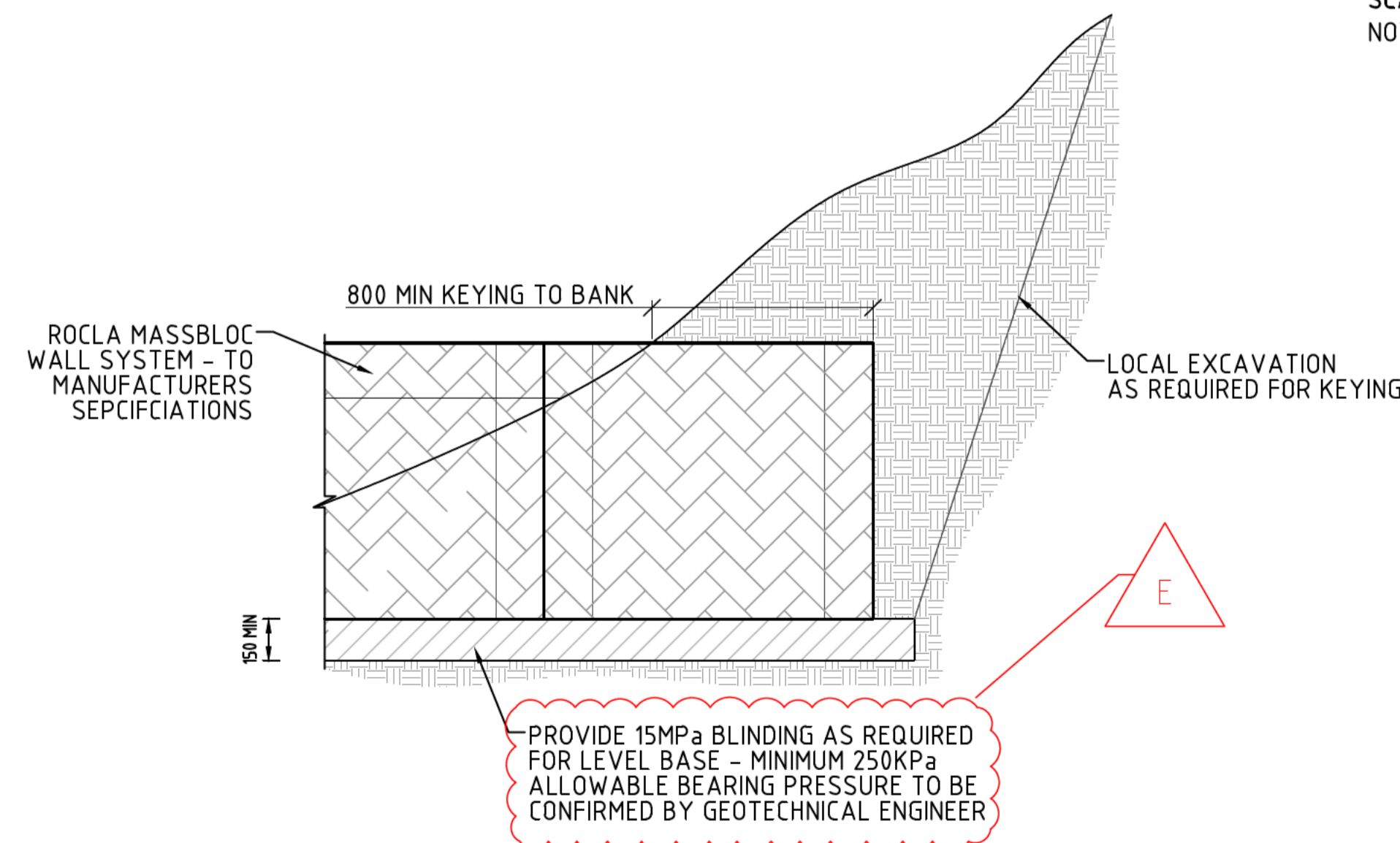
MASSBLOC RETAINING WALL (RW1)

SCALE = 1:20
NOTE: EXTENTS OF WALL TO BE CONFIRMED ON SITE
FINAL DESIGN SUBJECT TO GEOTECHNICAL CONDITIONS



TYPICAL MASSBLOC WALL TRANSITION

SCALE = 1:20



TYPICAL MASSBLOC WALL BANK TERMINATION

SCALE = 1:20

STRUCTURAL DESIGN
COMPLETED BY:



122/24 Londale St
Braddon ACT 2612
P (02) 6201 0200
E [email] [email] [email]
W [email] [email]

REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16



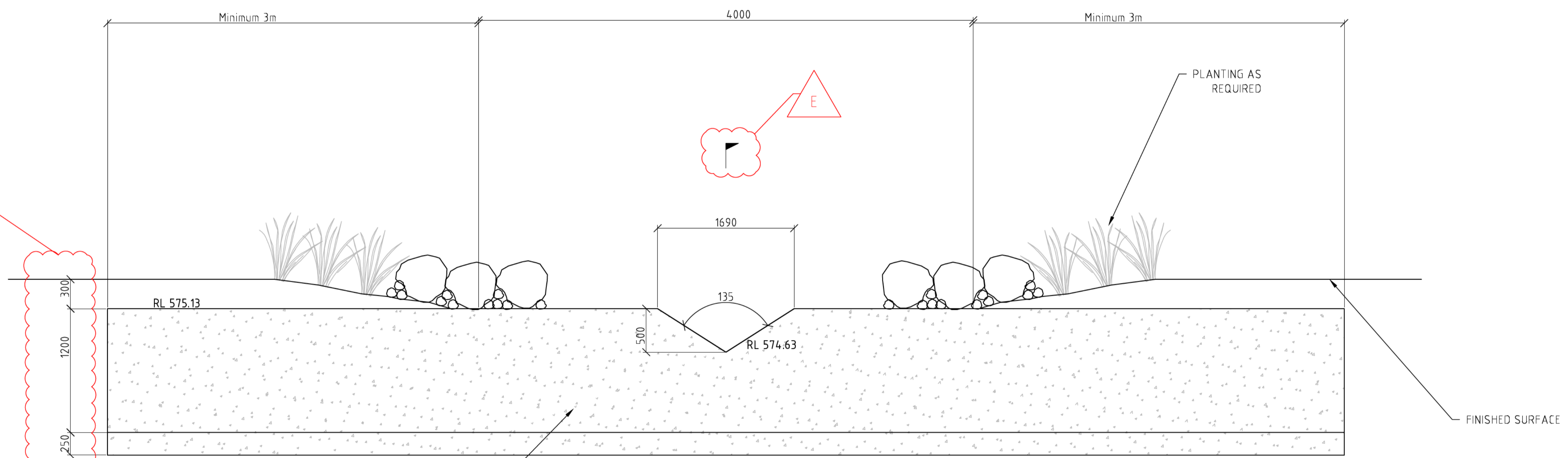
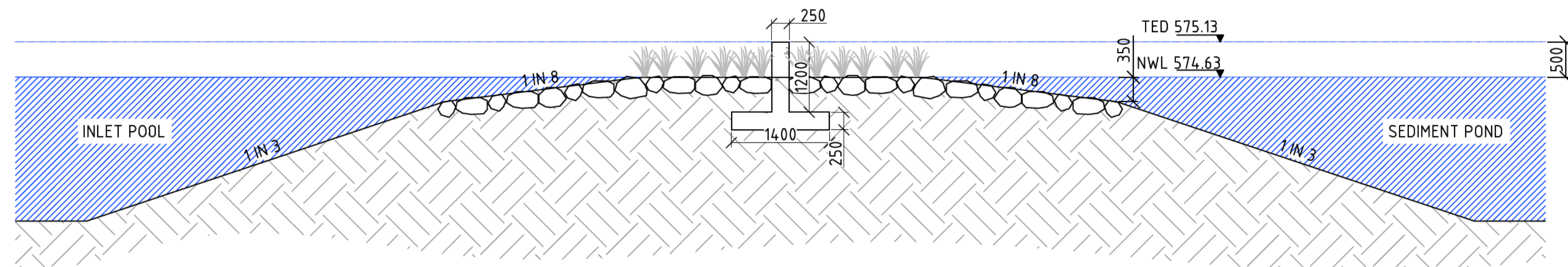
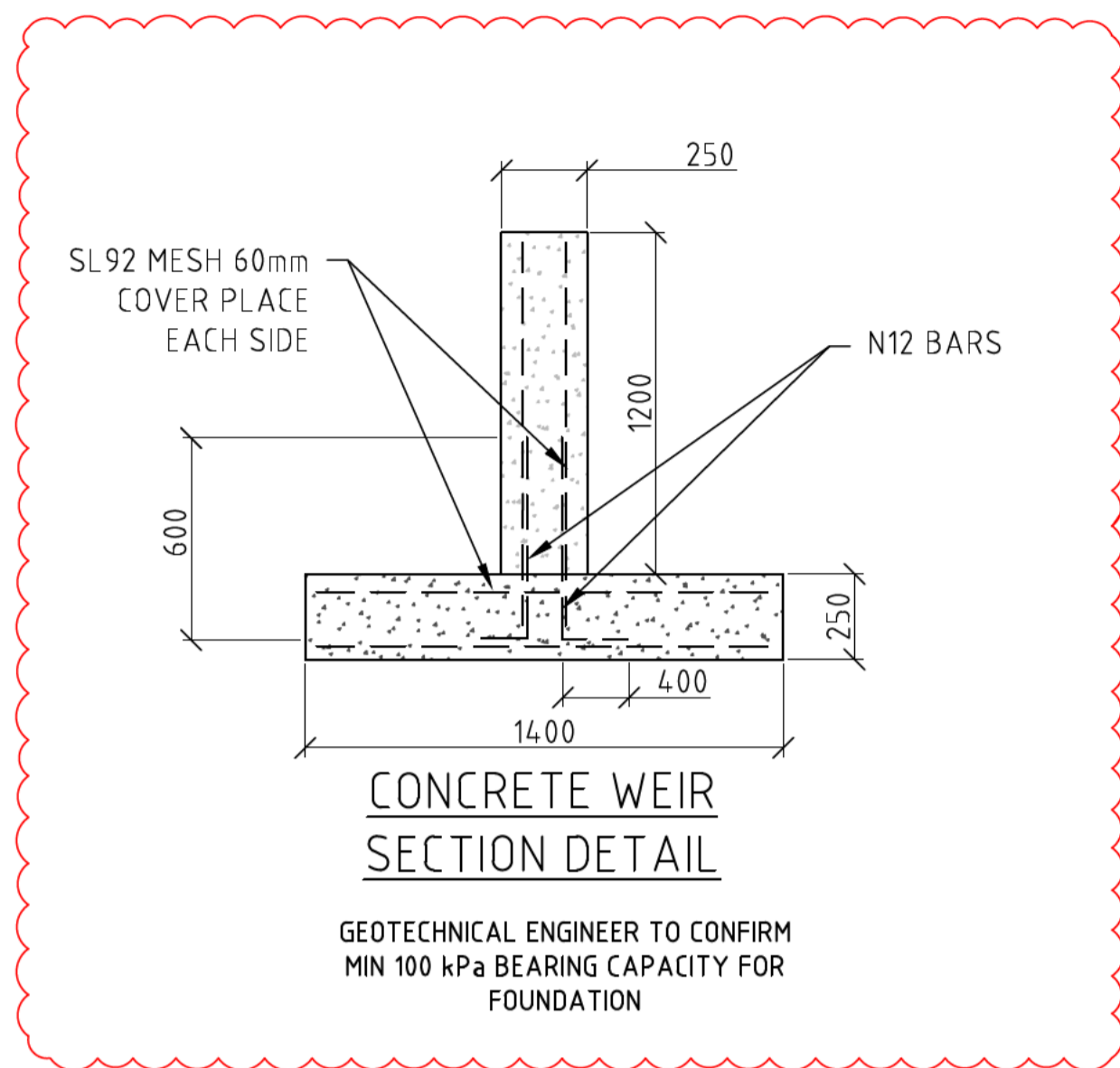
Alluvium Consulting Australia Pty. Ltd.
ABN 76 151 119 792
21-23 Stewart St
Richmond Vic 3121
T 61 3 9421 2532
www.alluvium.com.au

DESIGNED: DRAWN: CHECKED: APPROVED: PROJECT No: P315012

ACT GOVERNMENT
ISABELLA PONDS WETLAND

RETAINING WALL DETAIL

REVISION: E SHEET No.: IWC-16 ORIGINAL SIZE: A1 SCALE: 1:20 @ A1 DATUM: m AHD (AGD66)



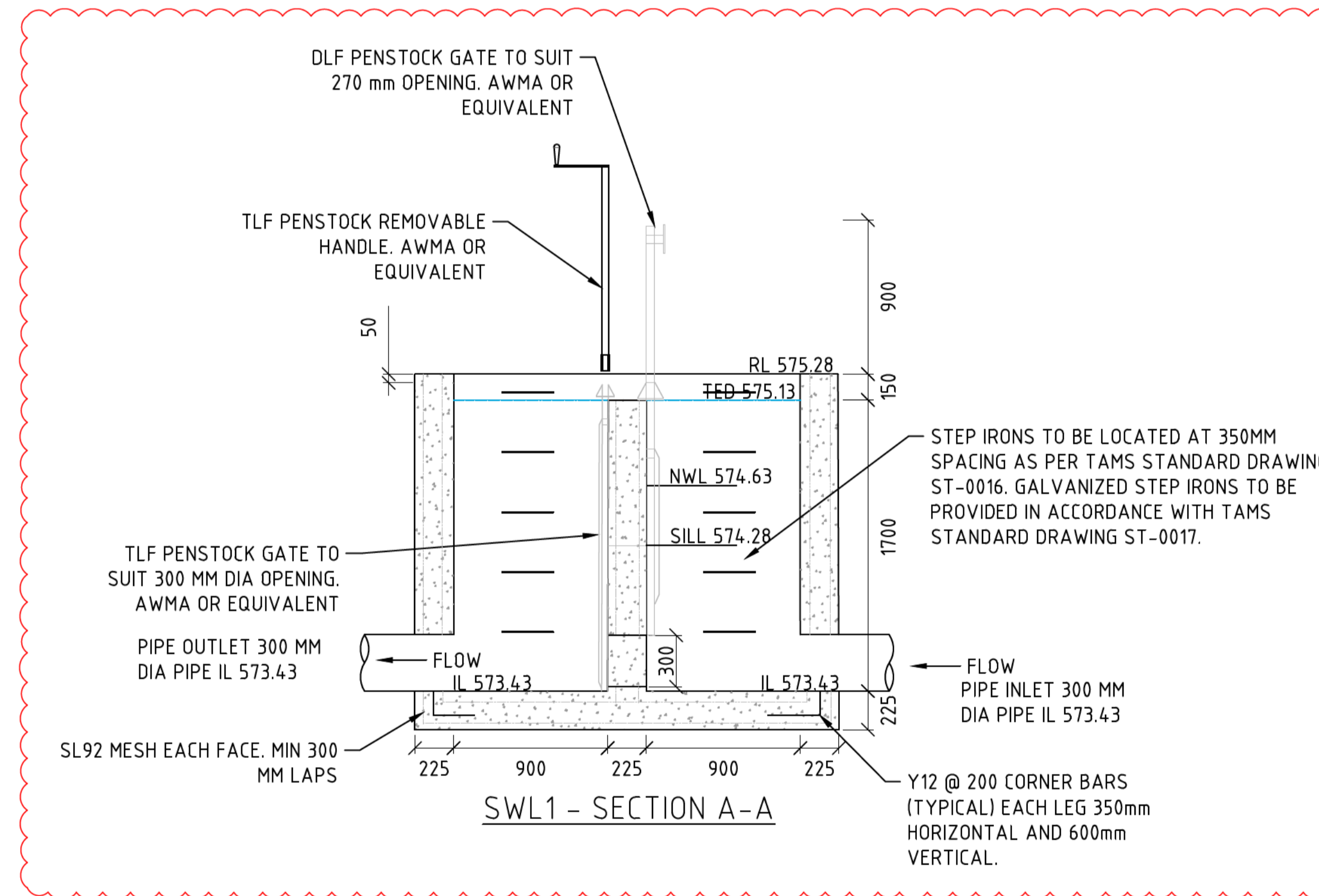
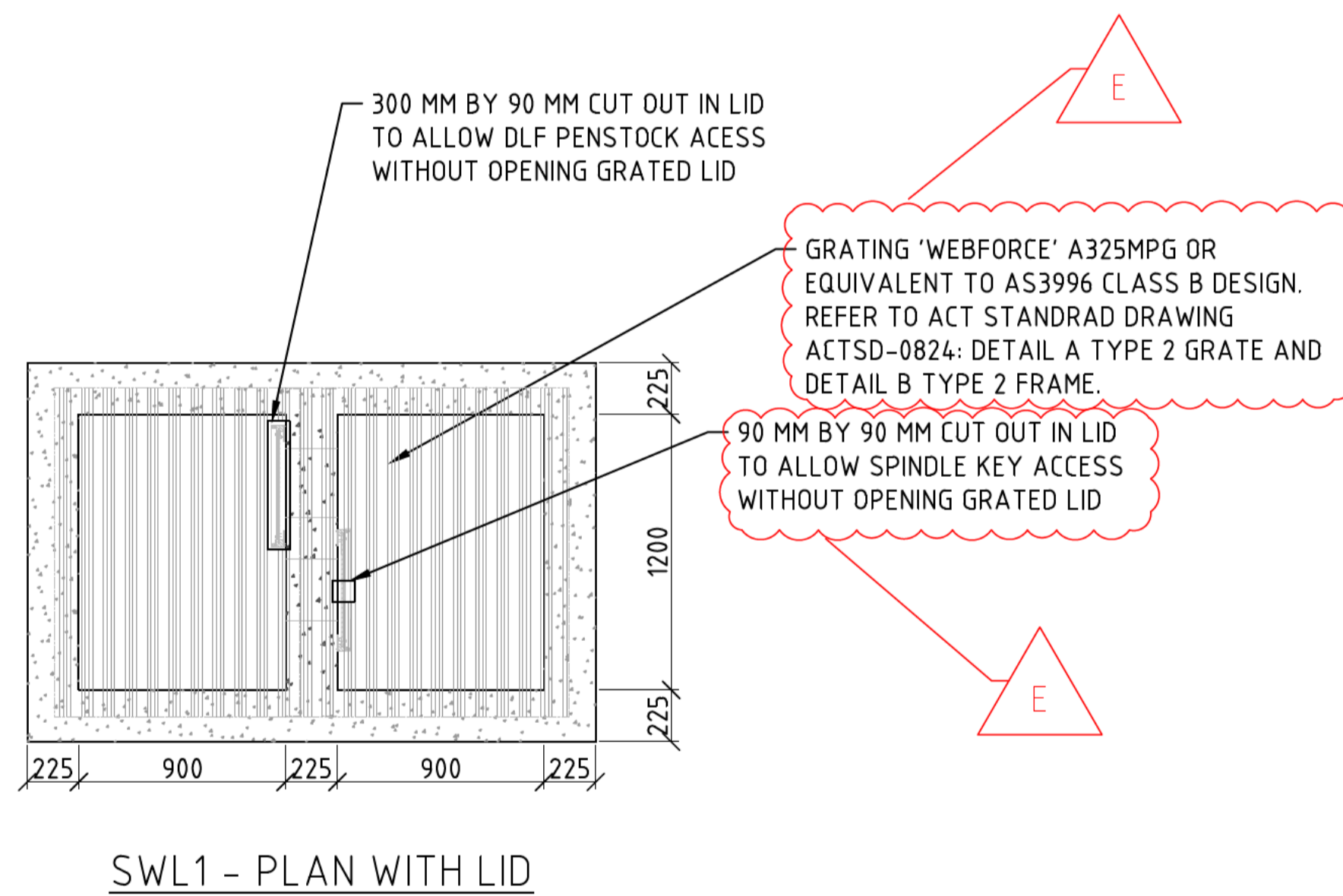
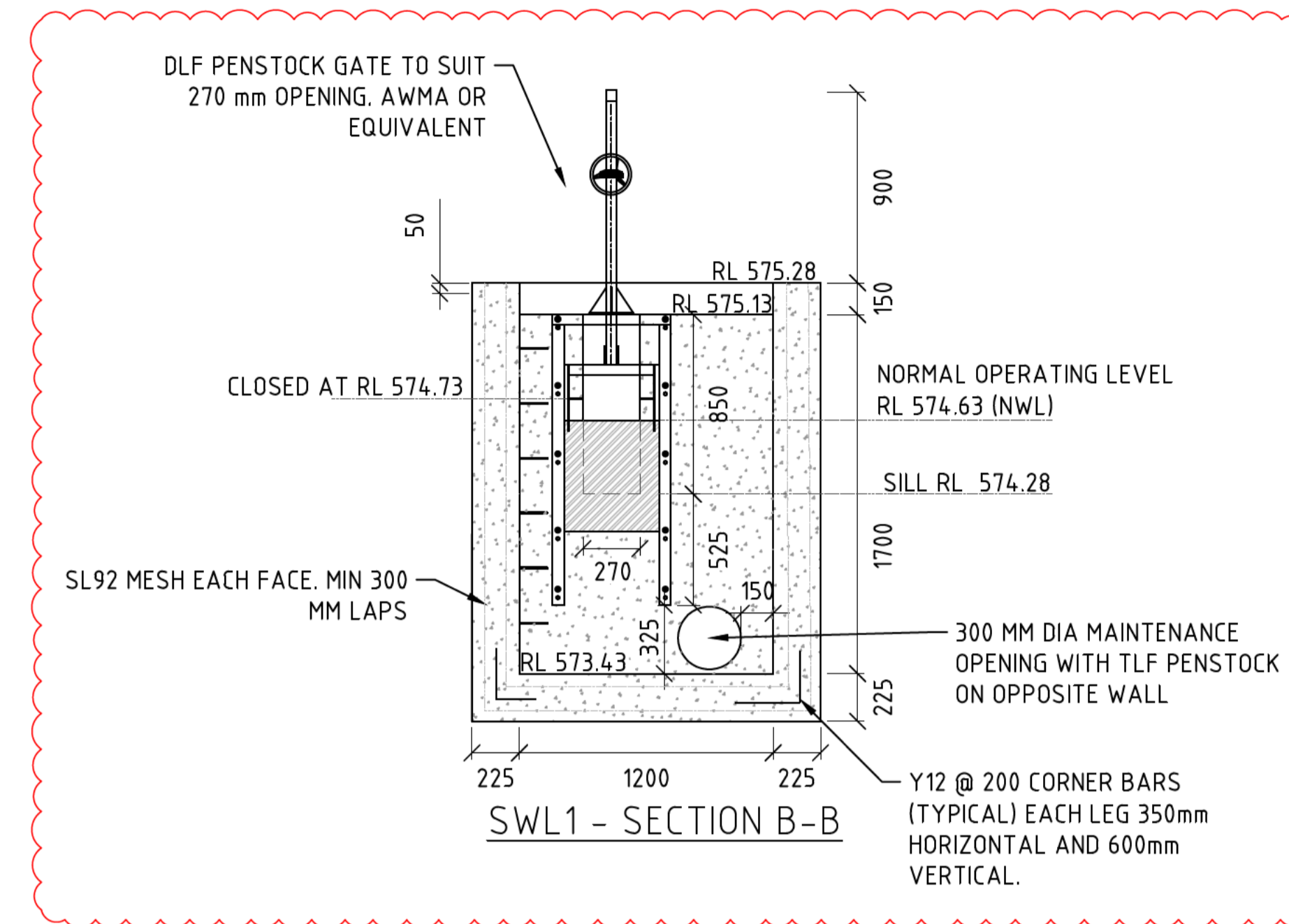
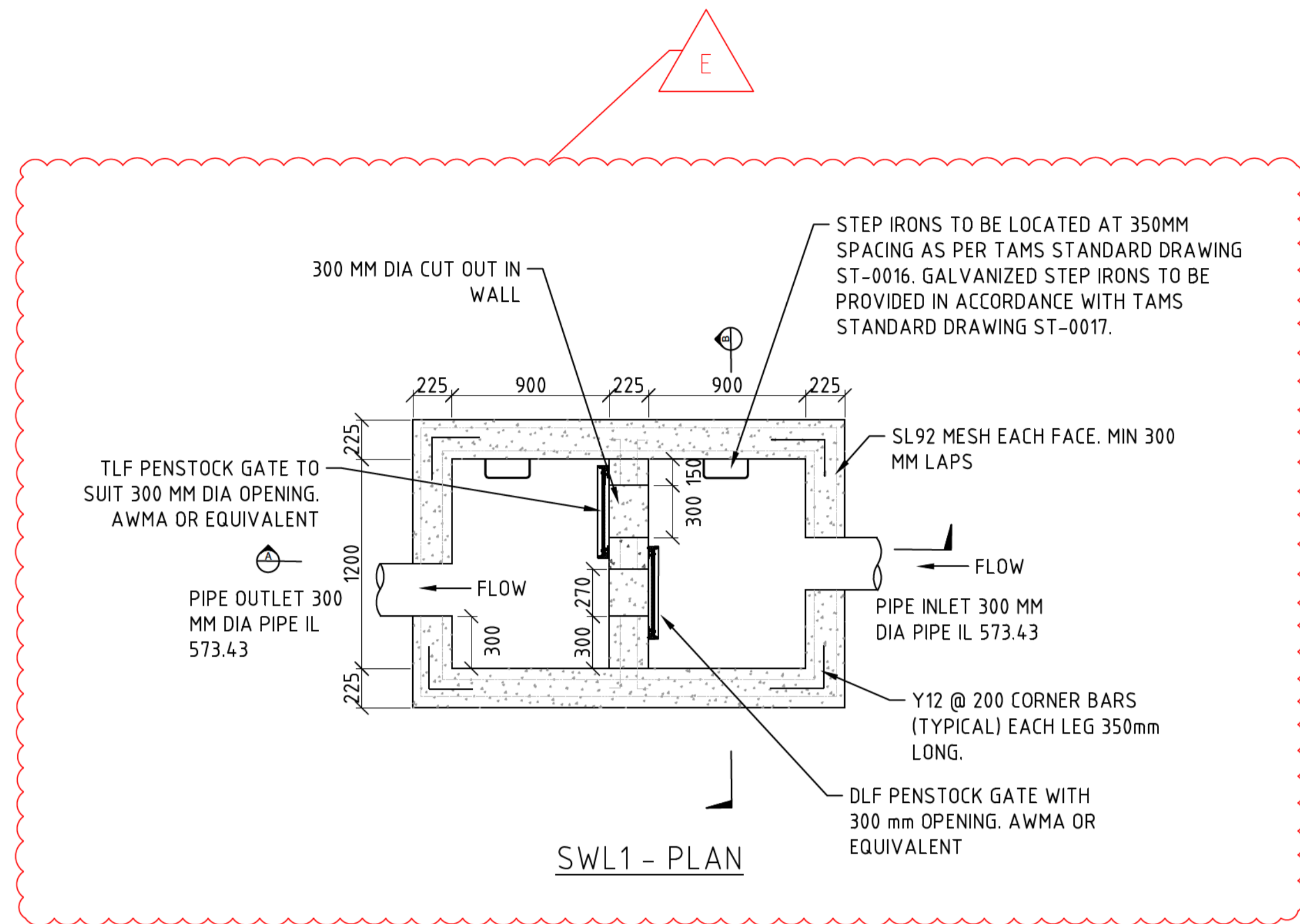
REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16



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 21-23 Stewart St
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ACT GOVERNMENT ISABELLA PONDS WETLAND			
CONCRETE WEIR DETAIL			
REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE:
E	IWC-17	A1	NOT TO SCALE
		DATUM: m AHD (AGD66)	

DESIGNED: DRAWN: CHECKED: APPROVED: PROJECT No: P315012
 Schedule 2.2(a)(ii)



N32 GRADE CONCRETE MUST BE USED IN ALL CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION SPECIFICATION

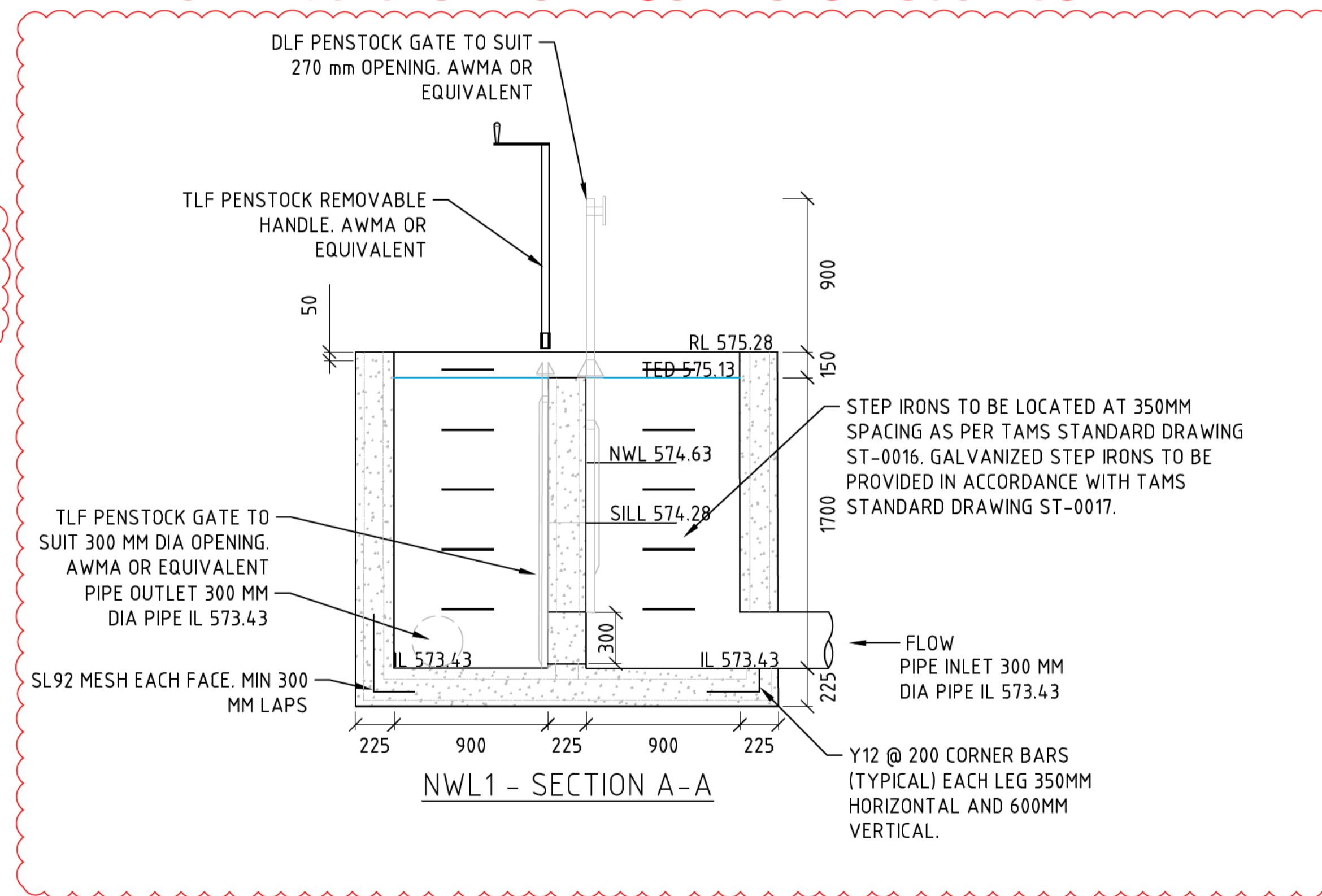
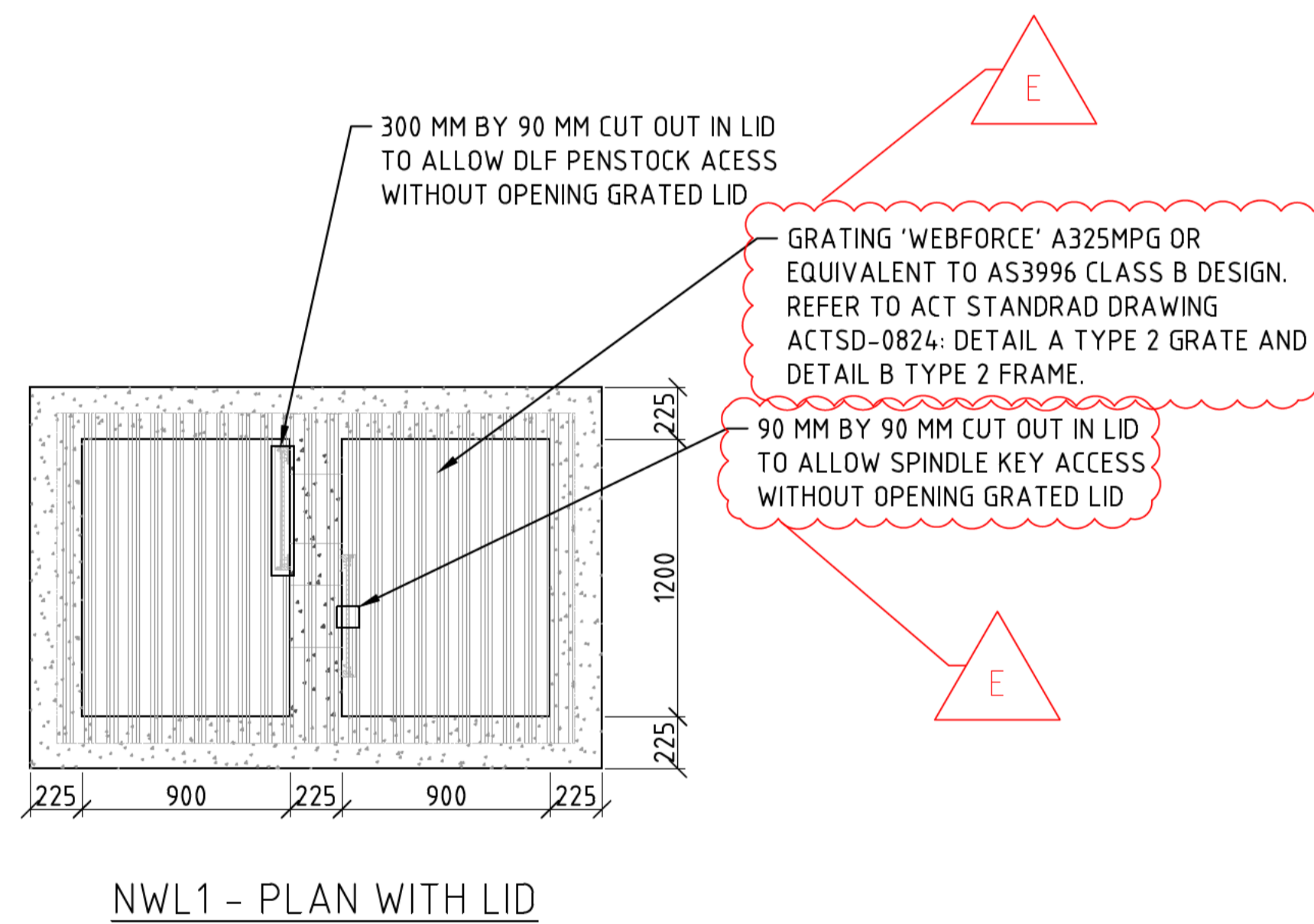
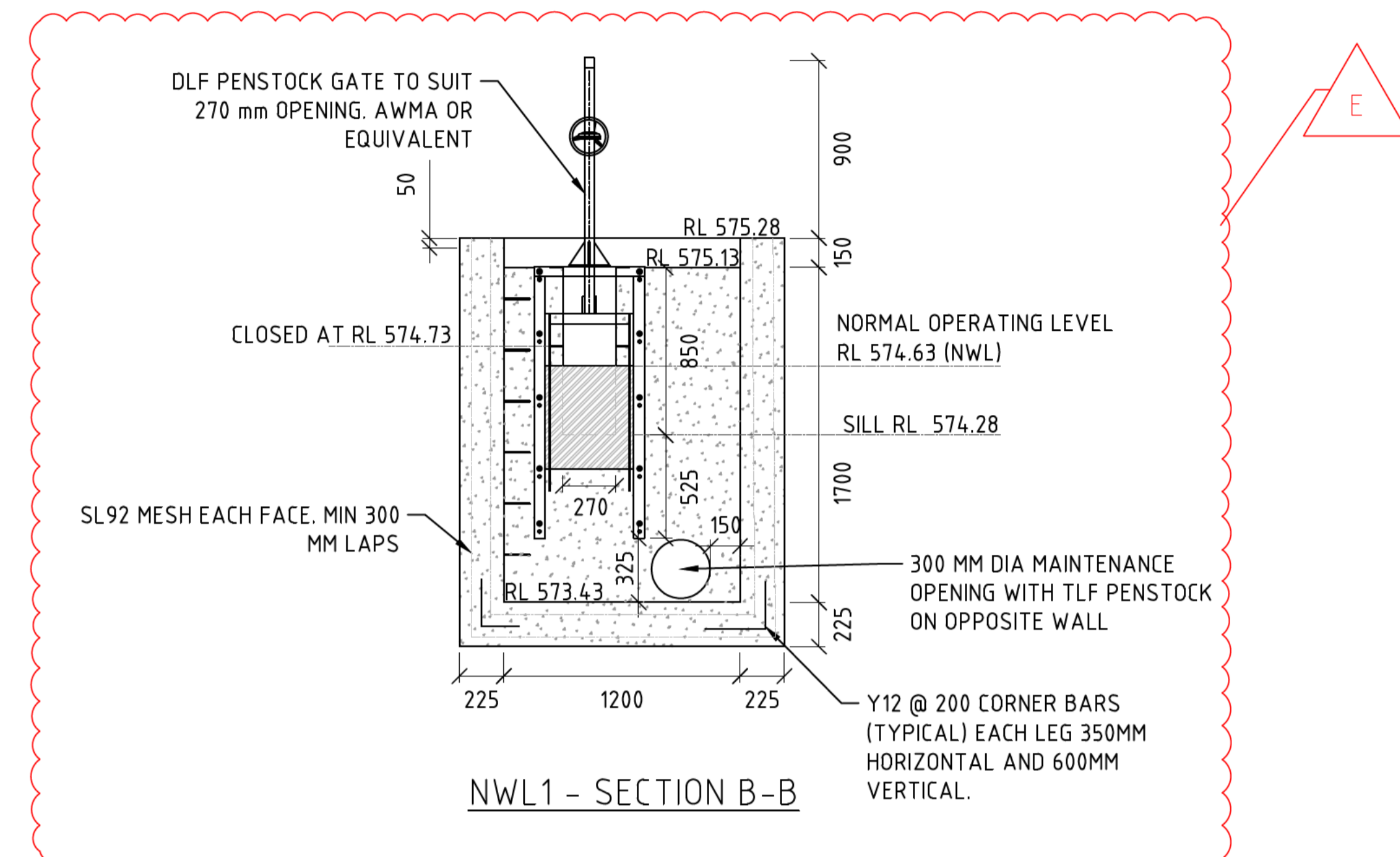
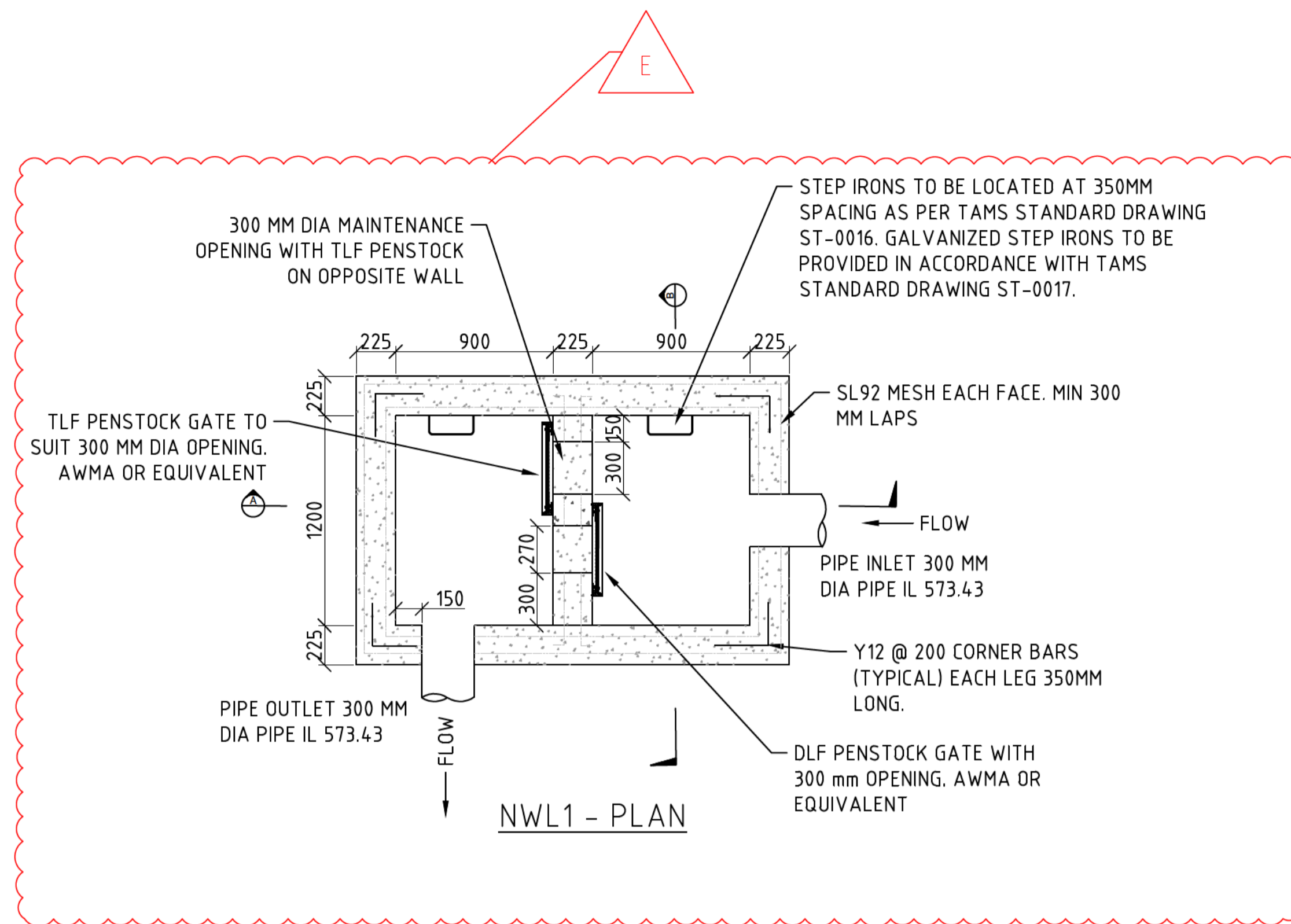
REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
D	TENDER ISSUE - REVISION		08.09.16
C	TENDER ISSUE - REVISION		29.08.16
B	TENDER ISSUE		05.07.16
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Schedule 2.2(a)(ii)				P315012

ACT GOVERNMENT ISABELLA PONDS WETLAND SOUTH WETLAND BAFFLE PIT DETAIL			
REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE:
E	IWC-18	A1	NOT TO SCALE
		DATUM: m AH (AGD66)	



N32 GRADE CONCRETE MUST BE USED IN ALL CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION SPECIFICATION

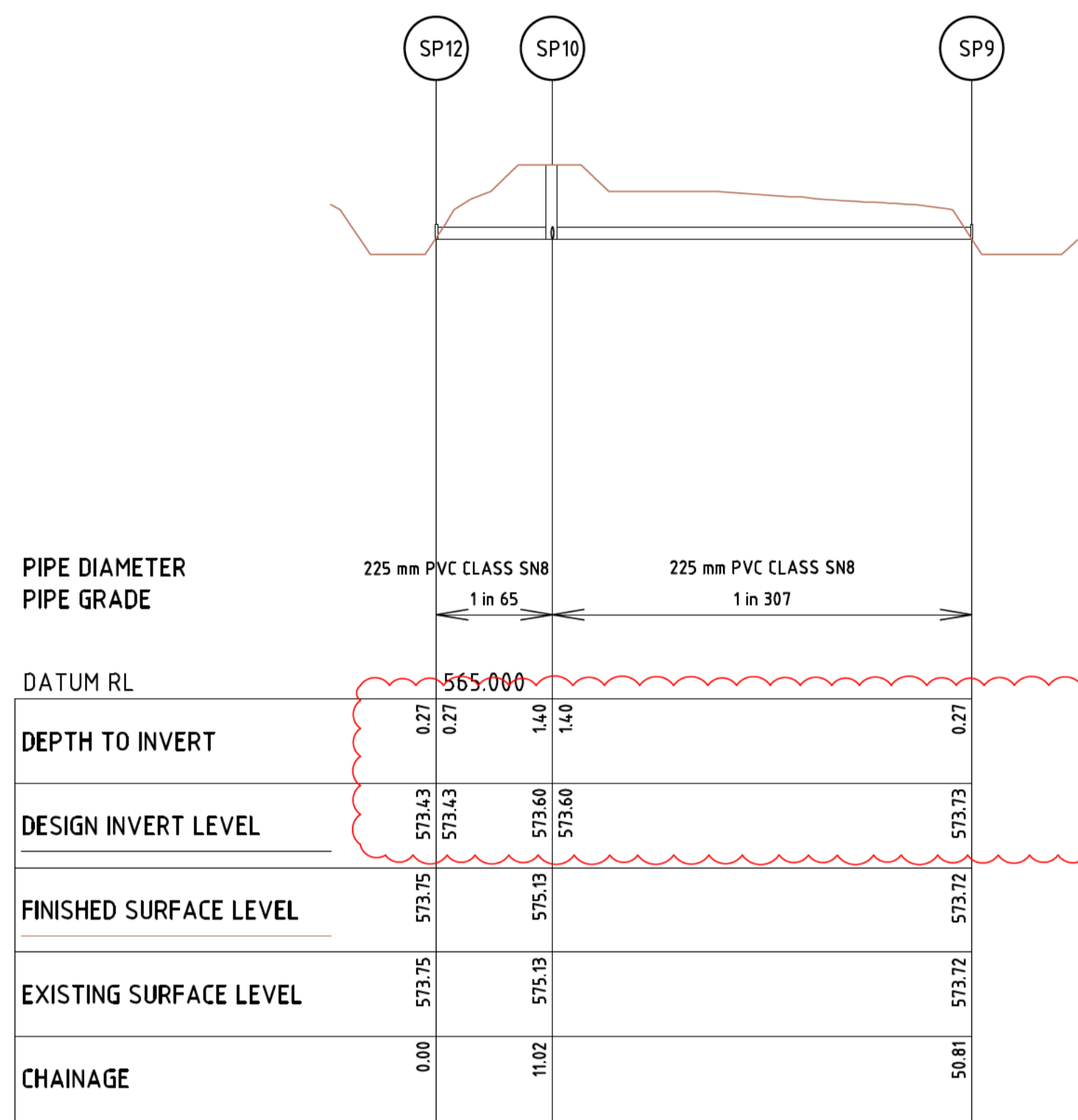
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E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
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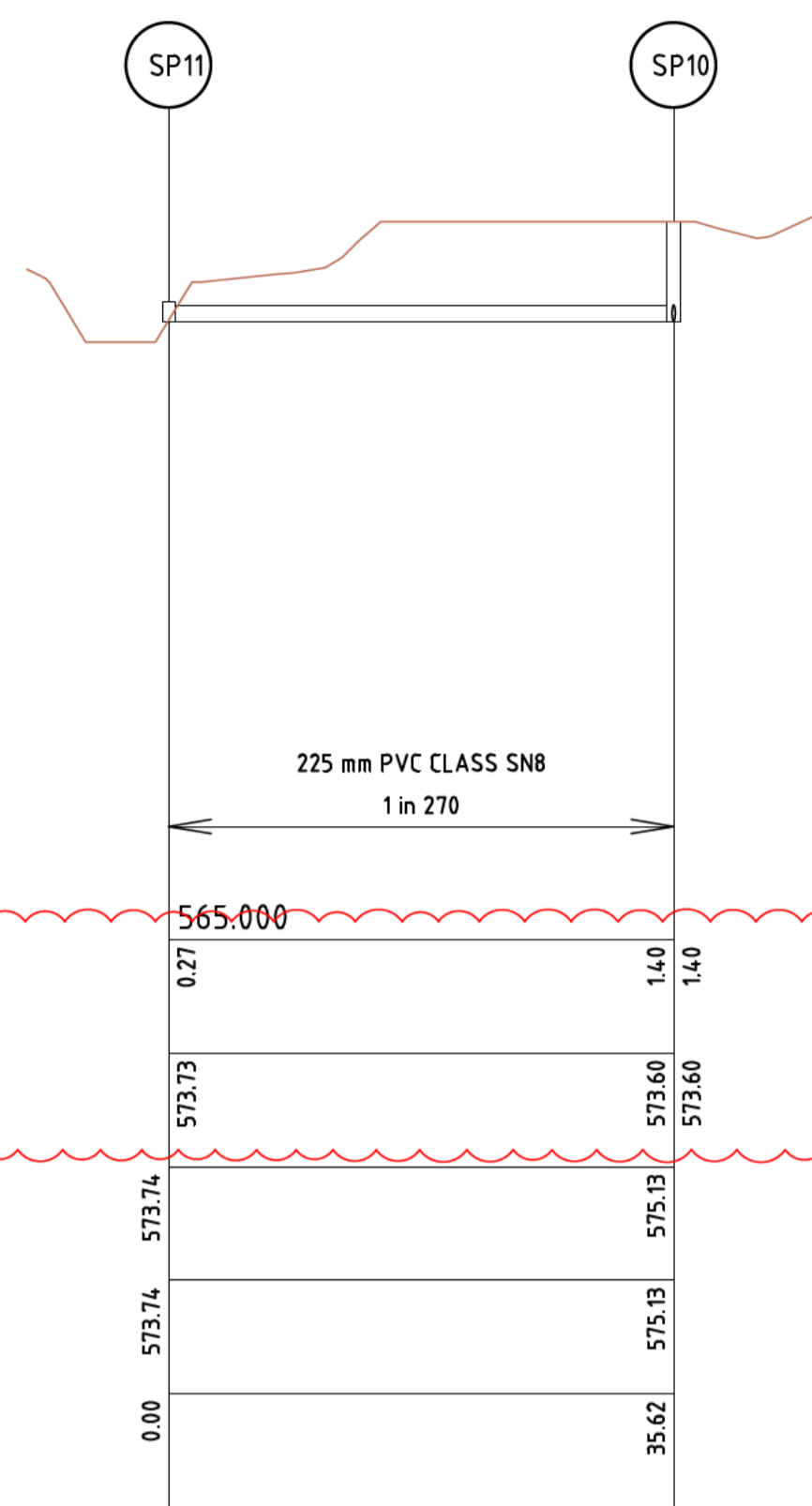
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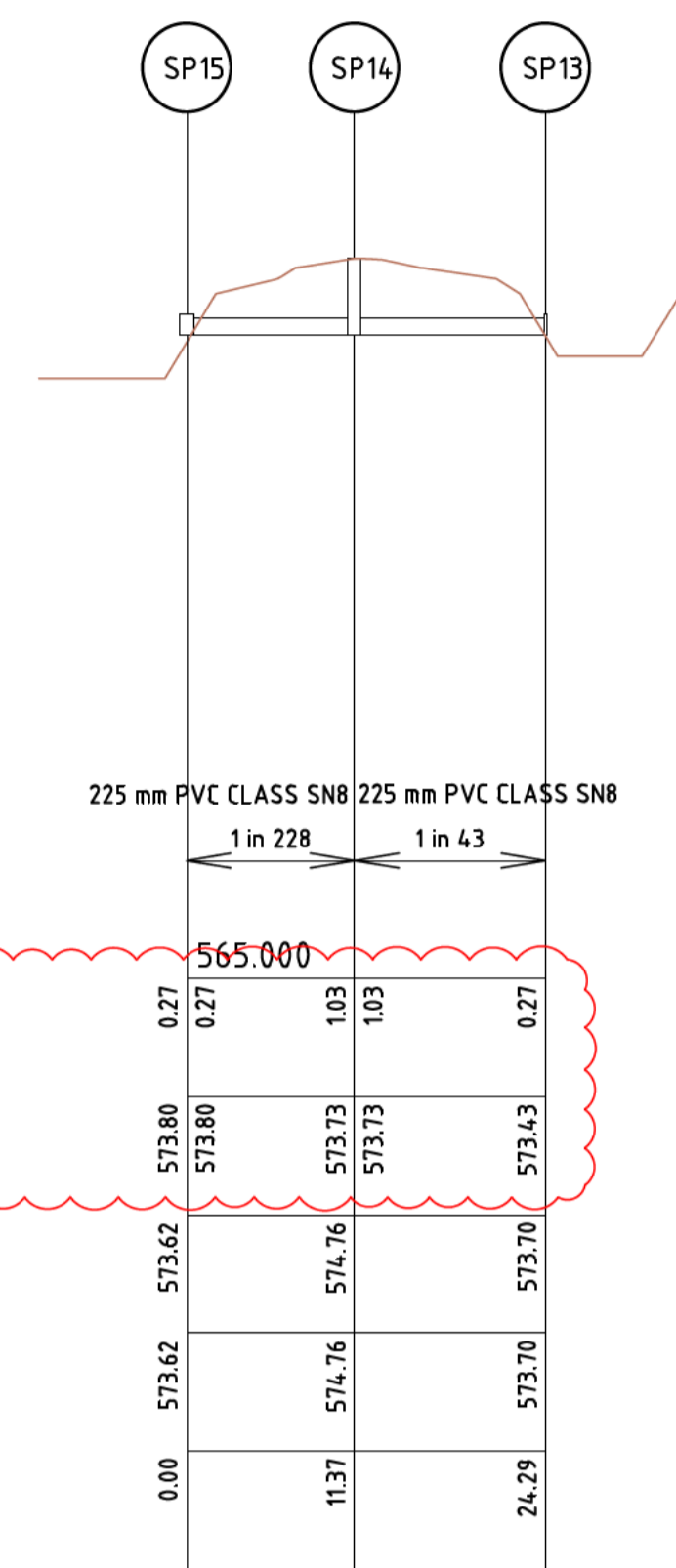
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		DATUM: m AH (AGD66)	



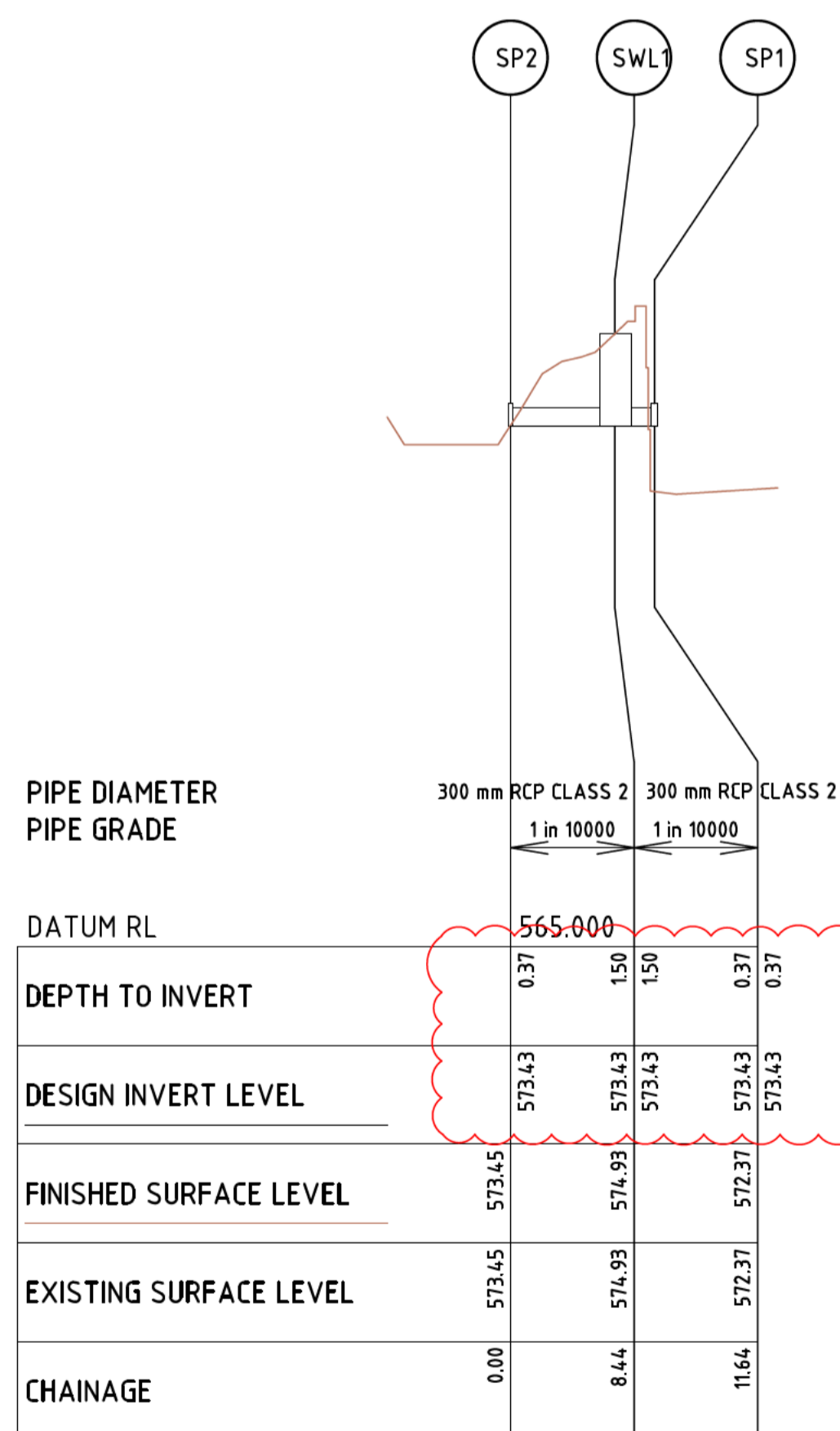
LONGITUDINAL SECTION



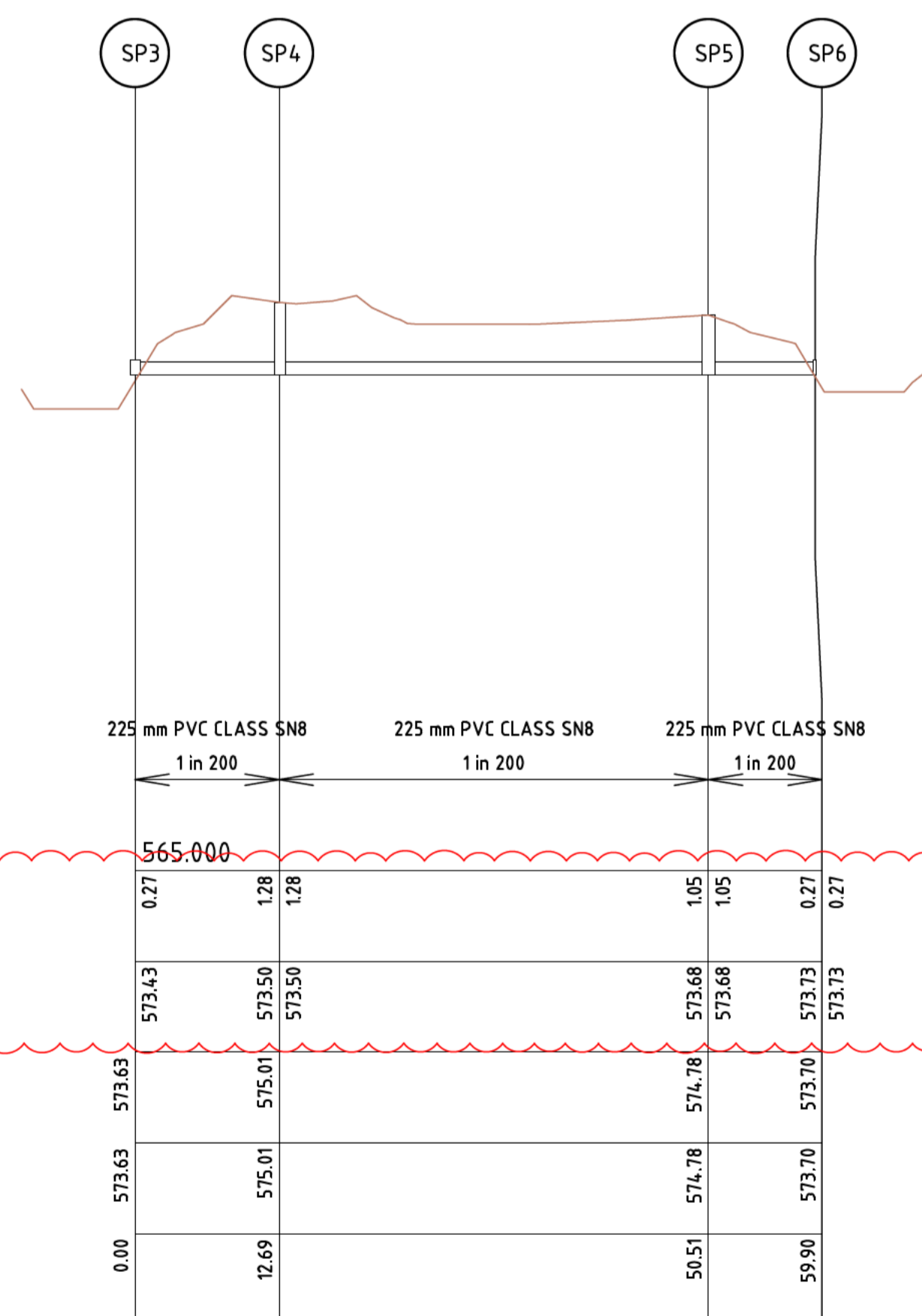
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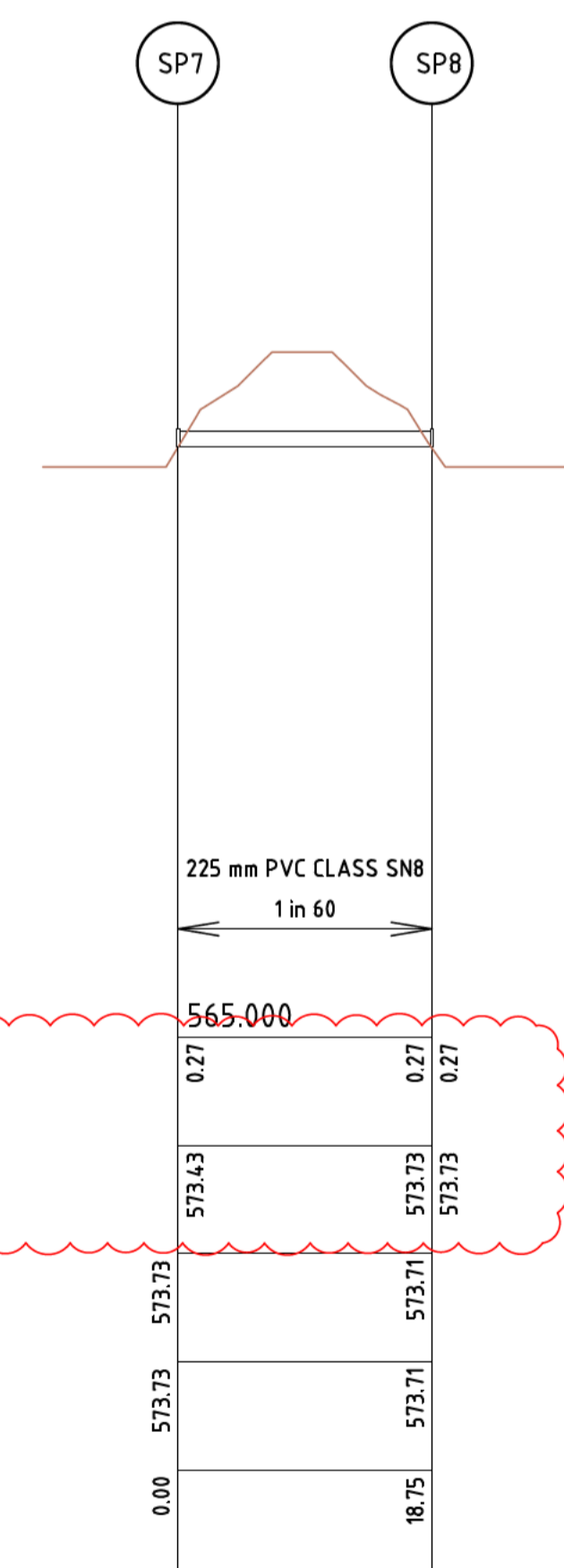
LONGITUDINAL SECTION



LONGITUDINAL SECTION



LONGITUDINAL SECTION



LONGITUDINAL SECTION

REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
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B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16

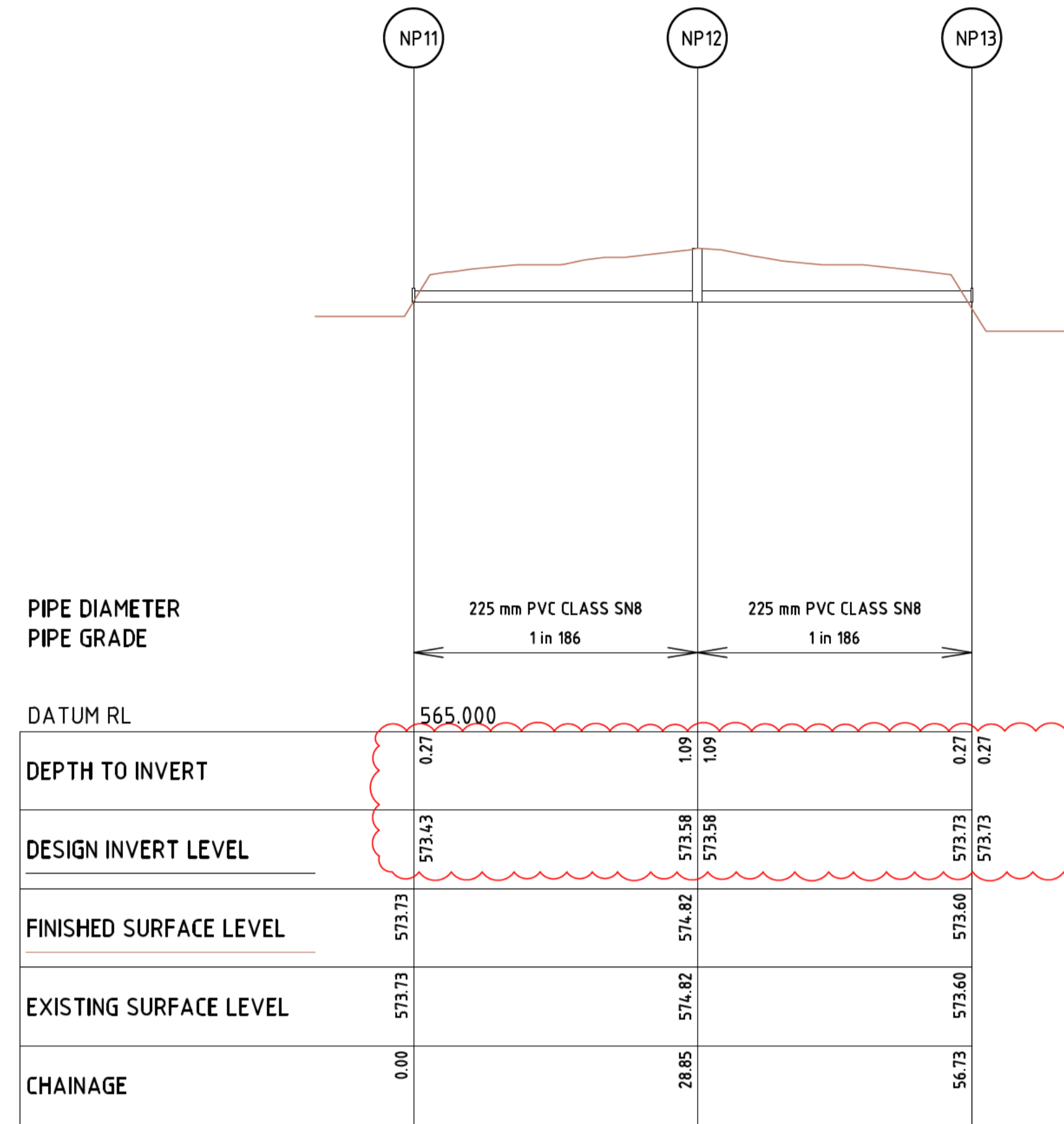


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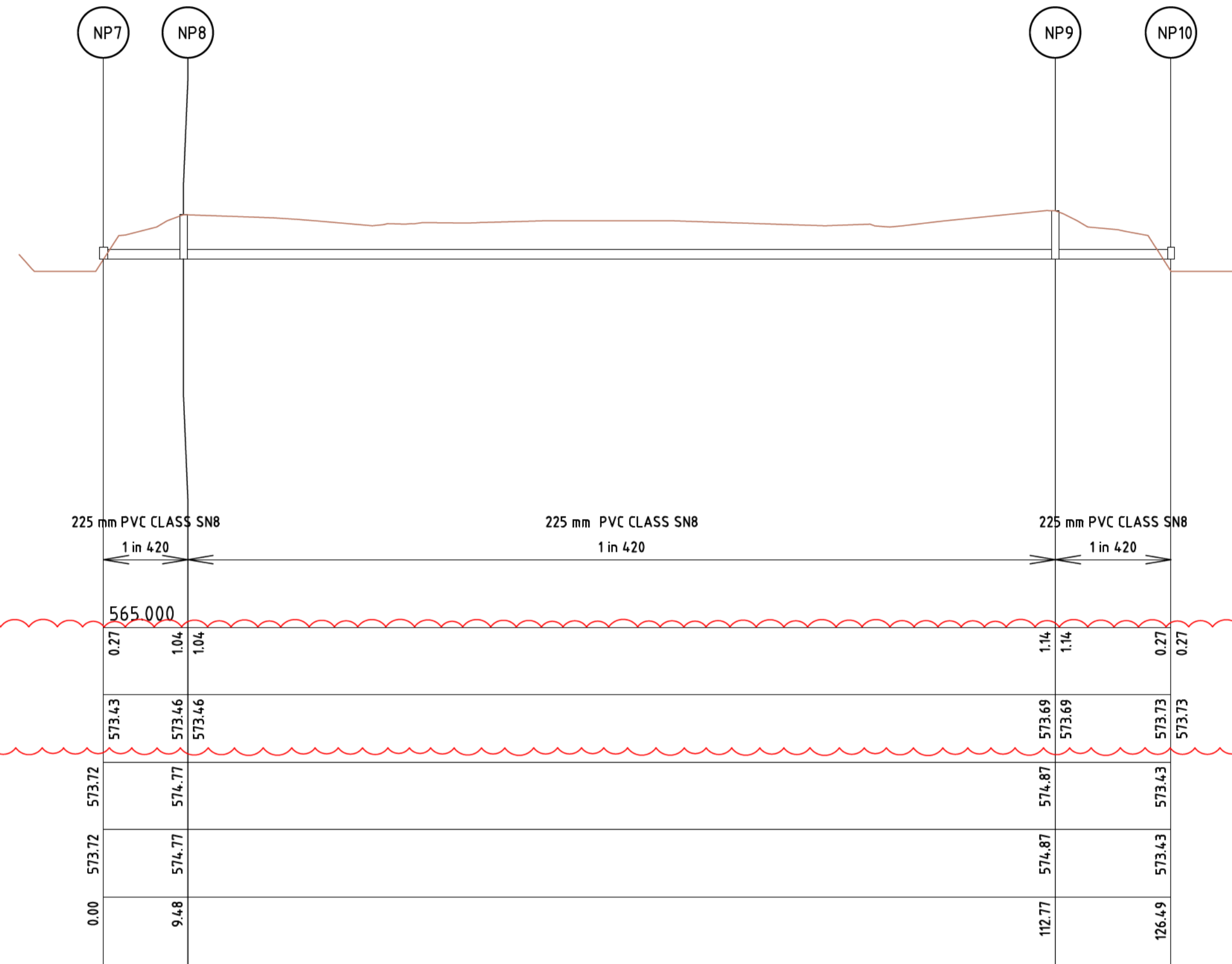
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ACT GOVERNMENT
ISABELLA PONDS WETLAND
SOUTH WETLAND
PIPE LONGITUDINAL SECTION

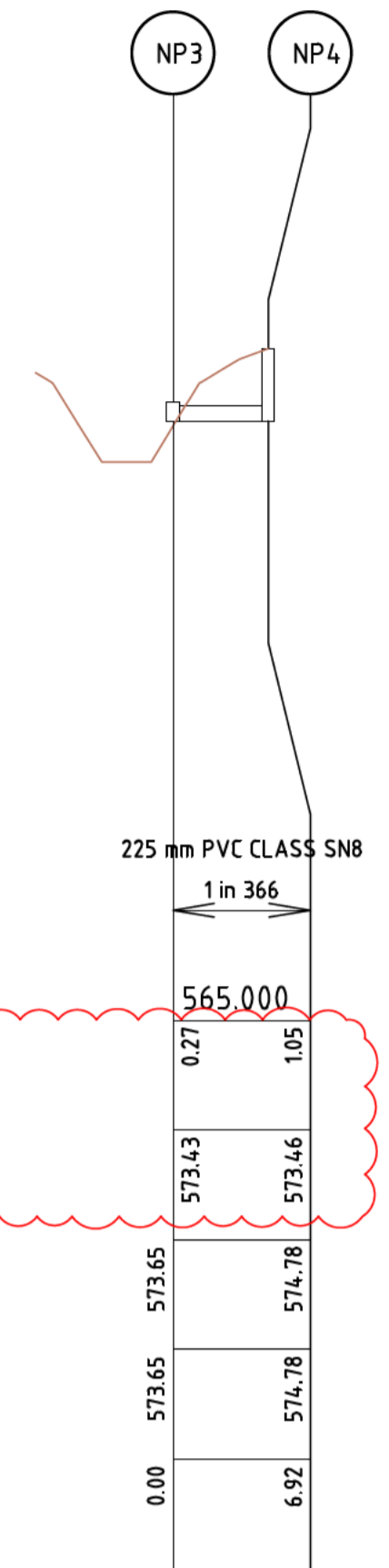
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DATUM: m AHD (AGD66)			



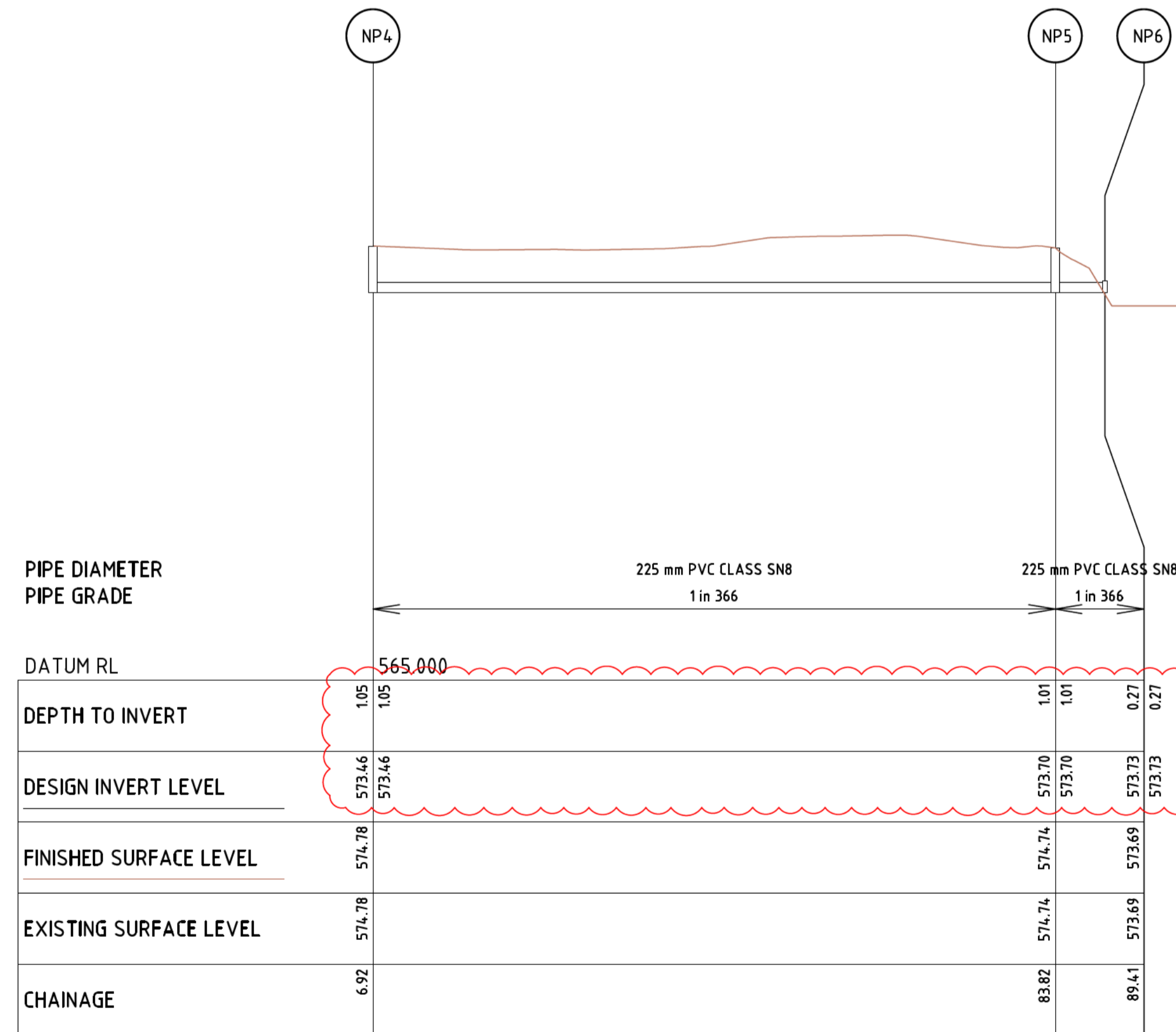
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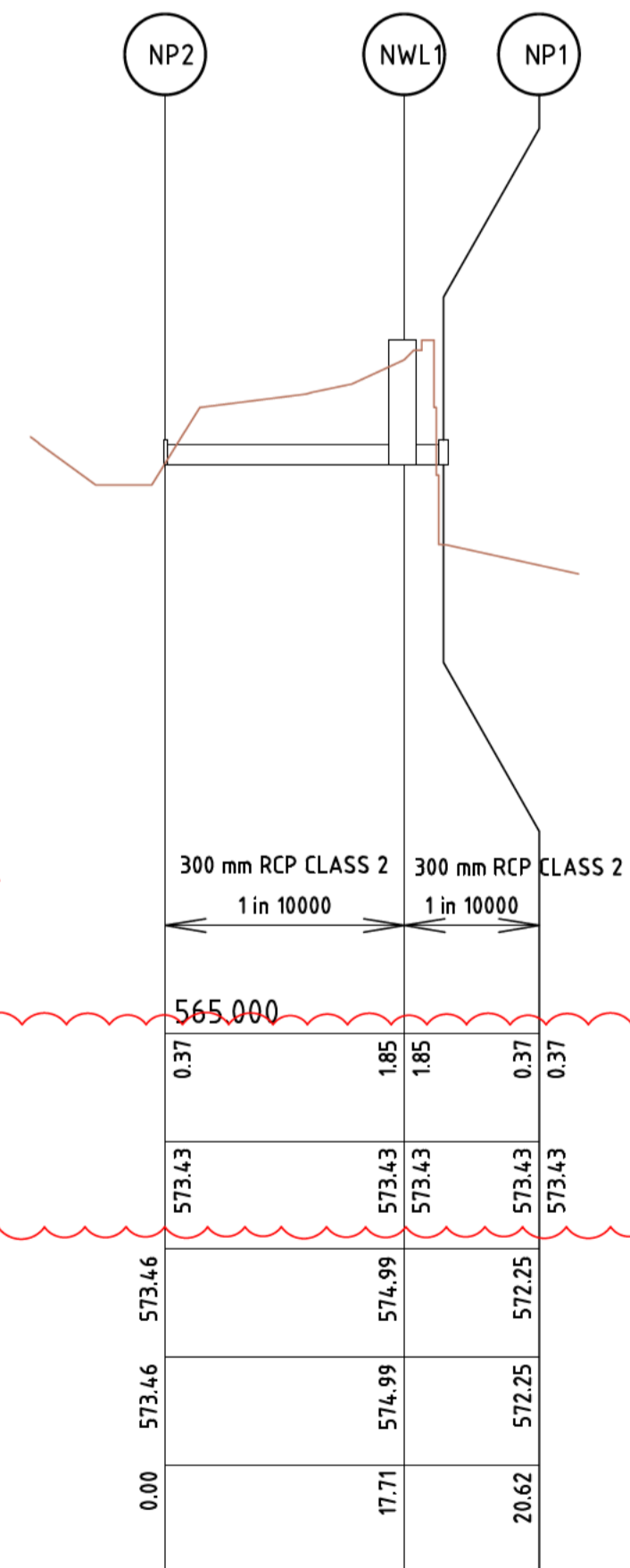
LONGITUDINAL SECTION



LONGITUDINAL SECTION



LONGITUDINAL SECTION



LONGITUDINAL SECTION

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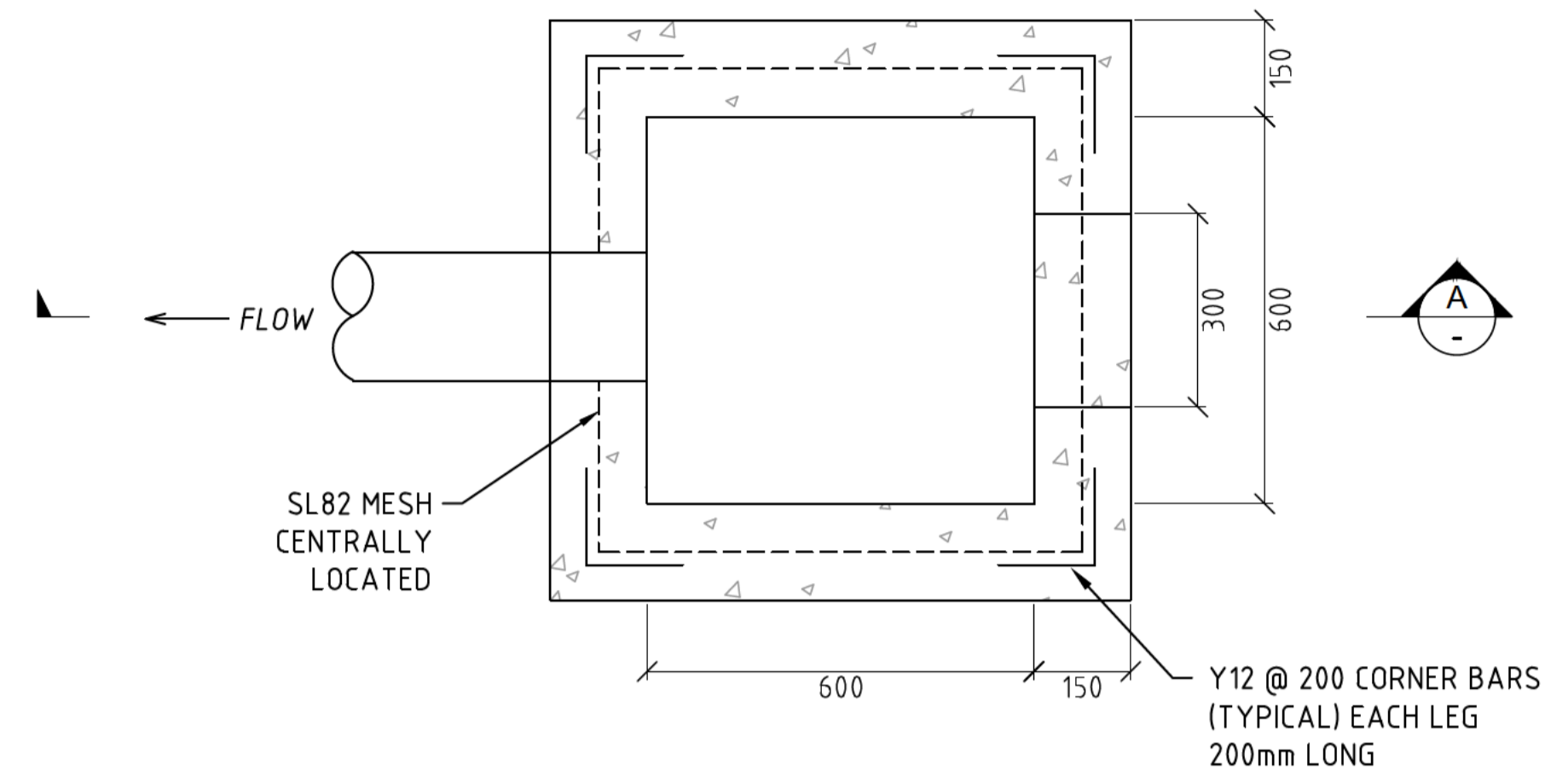
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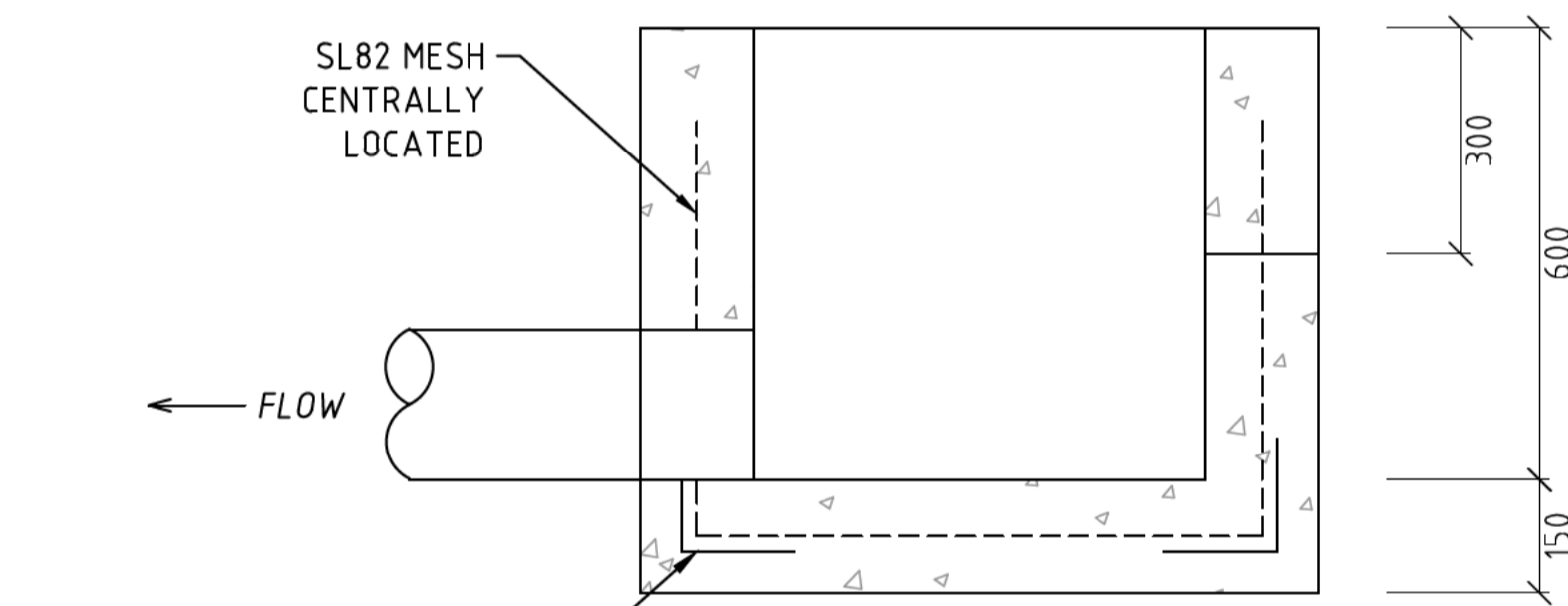
ACT GOVERNMENT
ISABELLA PONDS WETLAND
NORTH WETLAND
PIPE LONGITUDINAL SECTION

REVISION: E	SHEET No.: IWC-21	ORIGINAL SIZE: A1	SCALE: 1:500 @ A1
		DATUM: m AHD (AGD66)	0 10 20 30m

PIT SCHEDULE												
Pit		INTERNAL		INLET		OUTLET		PIT		REMARKS		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	
NWL1	BAFFLE PIT	206089.72	588261.22	1.65	2.48	300	573.43	300	573.43	575.28	1.85	WETLAND BAFFLE CONTROL PIT REFER TO SHEET 19
NP1	ENDWALL	206090.59	588258.45			300	573.43					ENDWALL TO SUIT 300mm DIA. RCP
NP2	SUBMERGED OFFTAKE PIT	206101.70	588274.26			300	573.43					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
NP3	SUBMERGED OFFTAKE PIT	206132.20	588285.21			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
NP4	JUNCTION PIT	206133.36	588292.03	0.9	0.9	225	573.73	225	573.73	574.78	1.05	AS PER TAMS STANDARD DRAWING ST-0016
NP5	JUNCTION PIT	206210.25	588290.70	0.9	0.9	225	573.73	225	573.73	574.74	1.01	AS PER TAMS STANDARD DRAWING ST-0016
NP6	SUBMERGED OFFTAKE PIT	206212.49	588285.58			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
NP7	SUBMERGED OFFTAKE PIT	206239.77	588288.41			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
NP8	JUNCTION PIT	206240.94	588297.82	0.9	0.9	225	573.73	225	573.73	574.77	1.04	AS PER TAMS STANDARD DRAWING ST-0016
NP9	JUNCTION PIT	206344.00	588304.82	0.9	0.9	225	573.73	225	573.73	574.87	1.14	AS PER TAMS STANDARD DRAWING ST-0016
NP10	SUBMERGED OFFTAKE PIT	206347.34	588291.52			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
NP11	SUBMERGED OFFTAKE PIT	206366.72	588294.23			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
NP12	JUNCTION PIT	206391.68	588308.69	0.9	0.9	225	573.73	225	573.73	574.82	1.09	AS PER TAMS STANDARD DRAWING ST-0016
NP13	SUBMERGED OFFTAKE PIT	206419.55	588307.62			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
SWL1	BAFFLE PIT	206110.25	588204.61	1.65	2.48	300	573.43	300	573.43	574.93	1.50	WETLAND BAFFLE CONTROL PIT REFER TO SHEET 18
SP1	ENDWALL	206109.12	588207.61			300	573.43					ENDWALL TO SUIT 300mm DIA. RCP
SP2	SUBMERGED OFFTAKE PIT	206116.16	588198.59			300	573.43					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
SP3	SUBMERGED OFFTAKE PIT	206120.99	588190.63			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
SP4	JUNCTION PIT	206120.72	588177.95	0.9	0.9	225	573.73	225	573.73	575.01	1.28	AS PER TAMS STANDARD DRAWING ST-0016
SP5	JUNCTION PIT	206150.52	588154.66	0.9	0.9	225	573.73	225	573.73	574.78	1.05	AS PER TAMS STANDARD DRAWING ST-0016
SP6	SUBMERGED OFFTAKE PIT	206157.84	588160.55			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
SP7	SUBMERGED OFFTAKE PIT	206174.83	588164.42			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
SP8	SUBMERGED OFFTAKE PIT	206193.57	588165.01			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
SP9	SUBMERGED OFFTAKE PIT	206205.77	588165.10			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
SP10	JUNCTION PIT	206244.51	588174.17	0.9	0.9	225	573.73	225	573.73	575.13	1.40	AS PER TAMS STANDARD DRAWING ST-0016
SP11	SUBMERGED OFFTAKE PIT	206237.07	588209.01			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
SP12	SUBMERGED OFFTAKE PIT	206252.77	588181.47			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
SP13	SUBMERGED OFFTAKE PIT	206258.35	588185.27			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL
SP14	JUNCTION PIT	206271.25	588185.85	0.9	0.9	225	573.73	225	573.73	574.76	1.03	AS PER TAMS STANDARD DRAWING ST-0016
SP15	SUBMERGED OFFTAKE PIT	206273.69	588196.95			225	573.73					REFER TO SHEET IWC-22 FOR STANDARD DETAIL



PLAN - SUBMERGED
OFFTAKE PIT
(NOT TO SCALE)



SECTION A-A
(NOT TO SCALE)

NOTE:

- OFFTAKE PITS ARE TO BE LOCATED AT THE LOWEST POINT OF THE WATERBODY, WITH THE BASE OF THE NOTCH OR TOP OF THE PIT NO HIGHER THAN 300mm FROM THE INVERT LEVEL.
- THE OFFTAKE PIT IN CONJUNCTION WITH THE BALANCE PIPES AND TWIN CHAMBER OUTFALL PIT ARE INTEGRAL FOR CONTROLLING THE EDD AND PROVIDE EFFECTIVE DRAWDOWN CAPABILITY.
- DRAWDOWN FROM THE TWIN CHAMBER OUTFALL PIT AVOIDS MULTIPLE PUMPING POINTS, DISTURBANCE OF VEGETATION, PUMP RELOCATION, HEALTH AND SAFETY ISSUES, MAINTENANCE, TIME AND COST.
- CAN BE PURCHASED AS PRECAST UNIT AND ALTERED (NOTCH CUT) ONSITE.
- SHOULD THE CONTRACTOR CHOOSE TO SINK THE PIT INTO THE CAPPING LAYER TO ACHIEVE 300mm FROM IL - CAPPING LAYER INTEGRITY MUST NOT BE COMPROMISED
- N32 GRADE CONCRETE MUST BE USED IN ALL CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION SPECIFICATION

REV	DESCRIPTION	APP'D	DATE
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B	TENDER ISSUE		05.07.16
A	FOR DOCUMENTATION READINESS		06.05.16



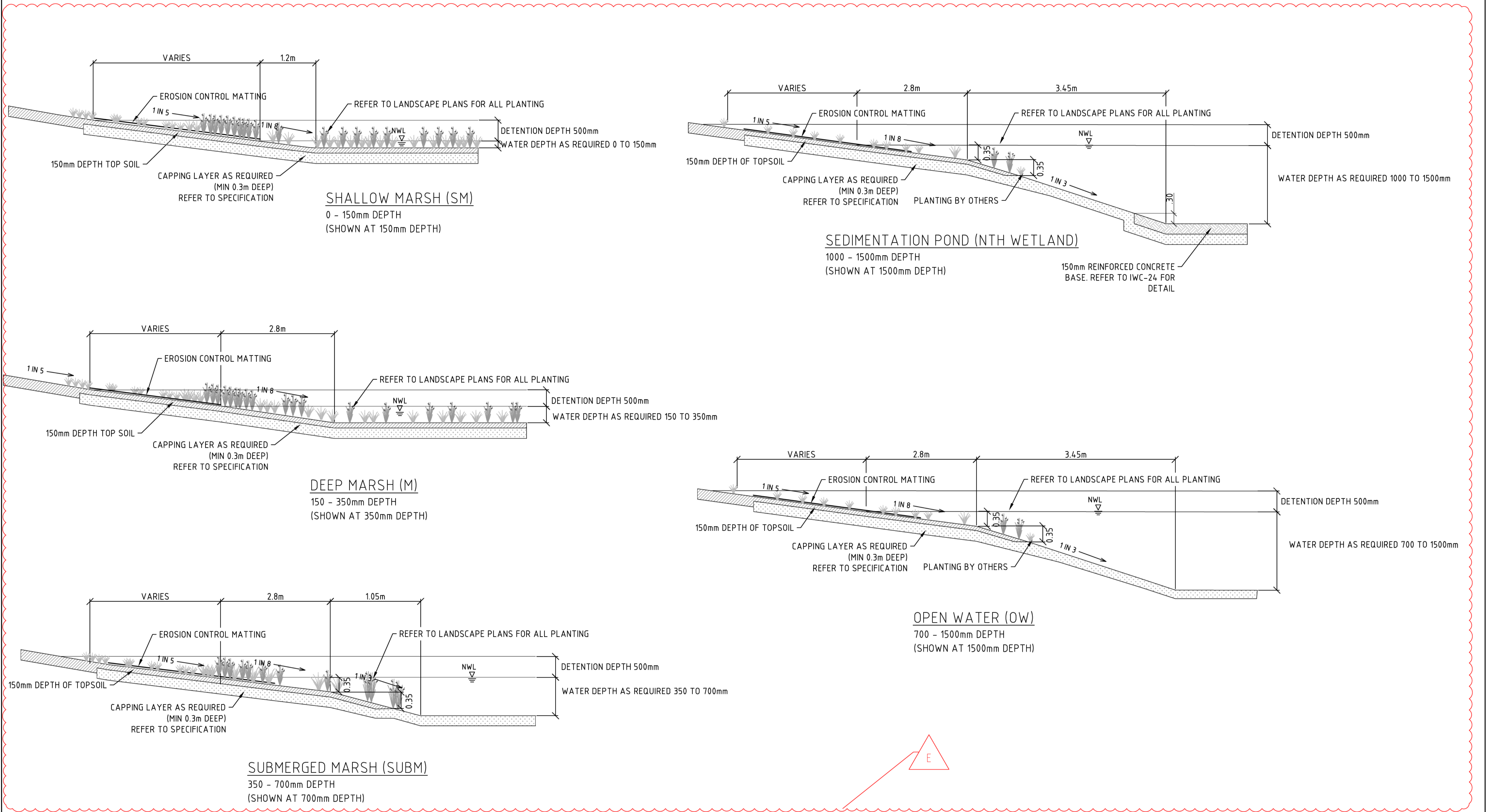
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ACT GOVERNMENT
ISABELLA PONDS WETLAND

PIT SCHEDULE & SUBMERGED OFFTAKE PIT

DESIGNED: Schedule 2.2(a)(ii) DRAWN: CHECKED: APPROVED: PROJECT No: P315012

REVISION: E SHEET No.: IWC-22 ORIGINAL SIZE: A1 SCALE: NOT TO SCALE
DATUM: m AHD (AGD66)



REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES		26.09.16
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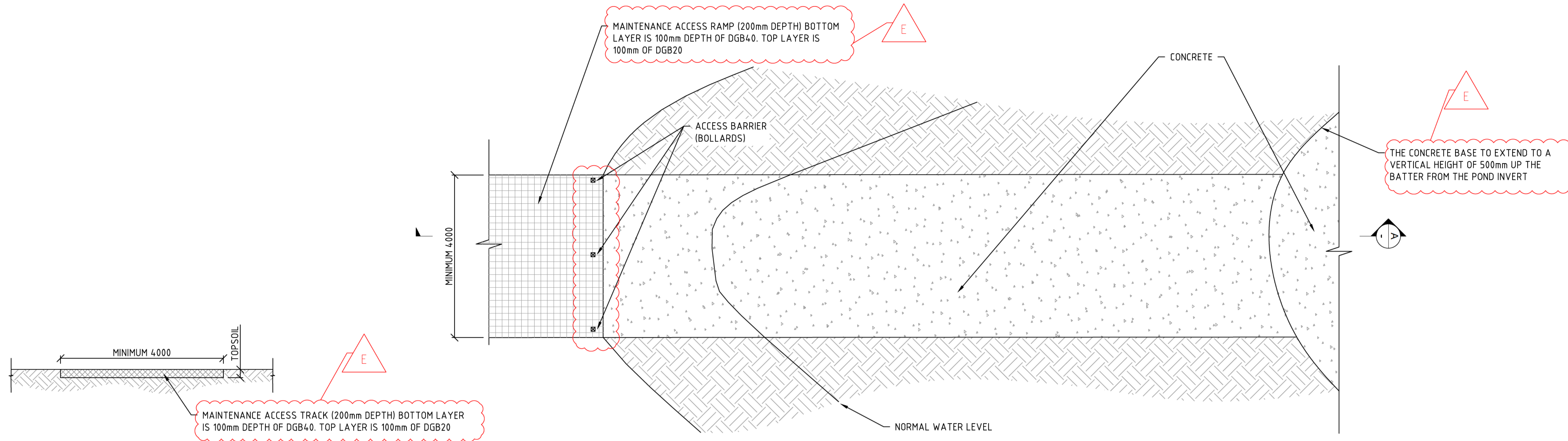
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ACT GOVERNMENT
ISABELLA PONDS WETLAND

TYPICAL EDGE DETAIL

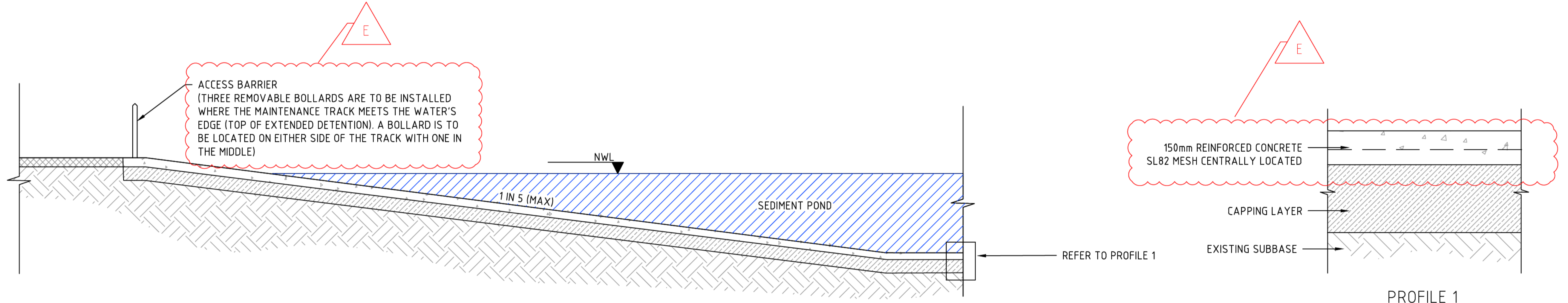
DESIGNED: Schedule 2.2(a)(ii) DRAWN: CHECKED: APPROVED: PROJECT No: P315012

REVISION: E	SHEET No.: IWC-23	ORIGINAL SIZE: A1	SCALE: NOT TO SCALE
		DATUM: m AHD (AGD66)	



ACCESS RAMP DIMENSIONS

PLAN - SEDIMENT BASIN ACCESS RAMP (NORTH WETLAND ONLY)



SECTION A-A

PROFILE 1

NOTE:

- FOR SITUATIONS WHERE THE CAPPING LAYER CRUST HAS BECOME SOFT, A BLINDING BASE MAY BE REQUIRED TO PROVIDE STABILITY FOR THE BAR CHAIR & REINFORCEMENT. - TYPICALLY 100mm CEMENT STABILISED (6%) DGB20 WILL SUFFICE.
- THE CONCRETE BASE TO EXTEND A MINIMUM TO A VERTICAL HEIGHT OF 500mm UP THE BATTER FROM THE POND INVERT.

N32 GRADE CONCRETE MUST BE USED IN ALL CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION SPECIFICATION

REV	DESCRIPTION	APP'D	DATE
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ACT GOVERNMENT ISABELLA PONDS WETLAND			
NORTH WETLAND MAINTENANCE ACCESS DETAIL			
REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE:
E	IWC-24	A1	NOT TO SCALE
		DATUM: m AHD (AGD66)	

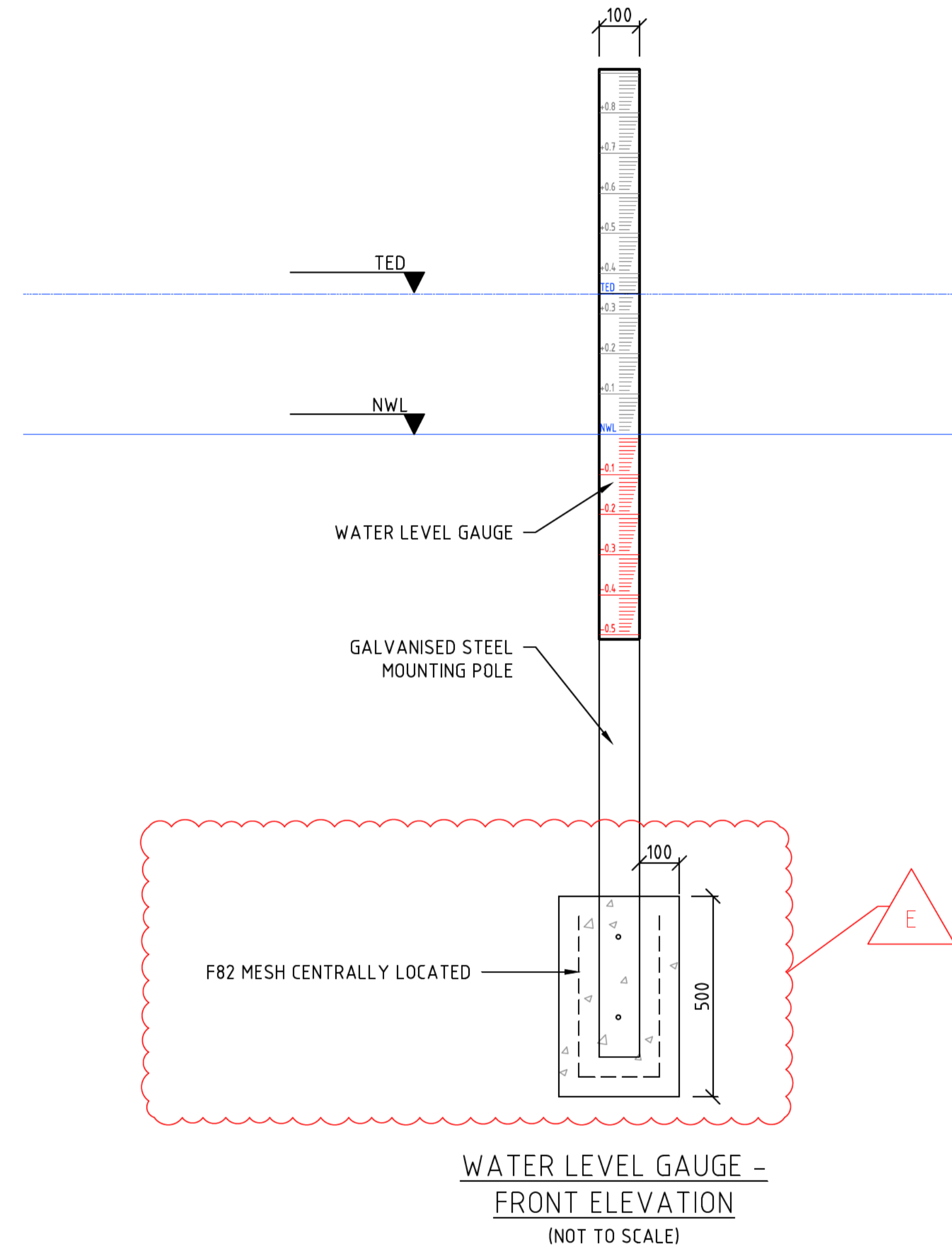
DESIGNED: DRAWN: CHECKED: APPROVED: PROJECT No: P315012
 Schedule 2.2(a)(ii)

NOTE:

- THE WATER LEVEL GAUGE MUST BE MADE FROM 1.5-2.5mm STAINLESS STEEL PLATE WITH A DURABLE ENAMEL FINISH.
- THE WATER LEVEL GAUGE MUST BE 100mm WIDE, MARKED IN METRIC UNITS, WITH GRADUATION MARKS EVERY CENTIMETER AND NUMBERING EVERY DECIMETER.
- THE WATER LEVEL GAUGE MUST INDICATE THE TOP OF EXTENDED DETENTION (TED), AND THE GRADUATION MARKS EXTEND TO A MINIMUM DEPTH OF NWL LESS 500mm AND MAXIMUM DEPTH OF TED PLUS 500mm.
- THE WATER LEVEL GAUGE IS TO BE SECURELY ATTACHED TO A GALVANIZED STEEL MOUNTING POLE USING GALVANIZED TEK SCREWS OR SIMILAR.
- THE MOUNTING POLE MUST HAVE A SQUARE OF RECTANGLE CROSS-SECTION, MINIMUM STEEL THICKNESS OF 2.5mm, MINIMUM 100mm WIDTH, PERMANENTLY SEALED ENDS AND GALVANIZED.
- THE MOUNTING POLE SHALL BE ATTACHED TO THE SUBMERGED OFFTAKE PIT USING M10 STAINLESS STEEL STUDS RECESSED MINIMUM 50mm INTO THE CONCRETE WALL USING EPOXY RESIN.
- THE WATER LEVEL GAUGE IS TO BE POSITIONED ON THE SUBMERGED OFFTAKE PIT SO THAT IT CAN BE READ FROM THE WETLAND MARGIN.



INDICATIVE GRADATIONS
(NOT TO SCALE)



WATER LEVEL GAUGE -
FRONT ELEVATION
(NOT TO SCALE)

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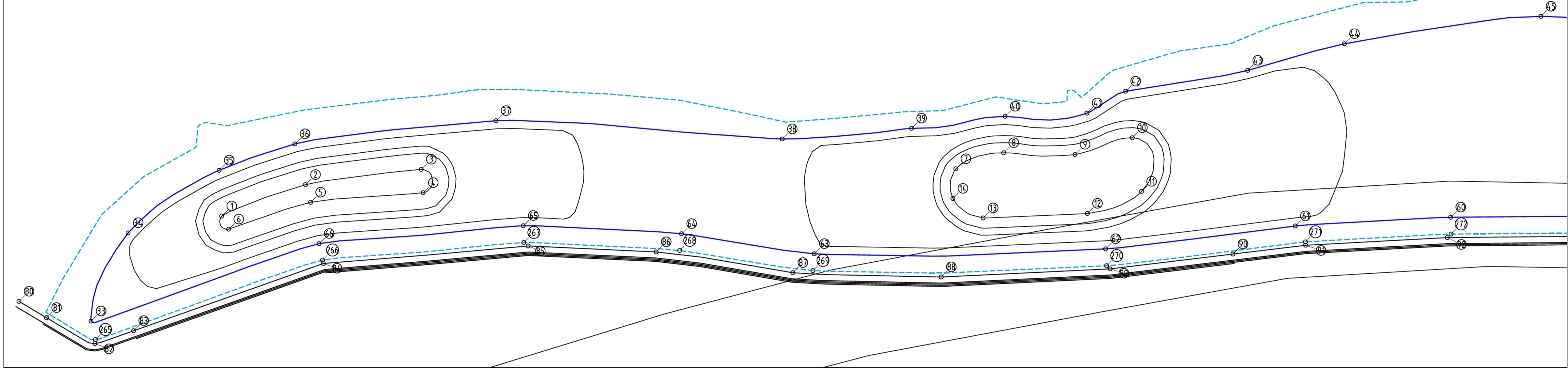


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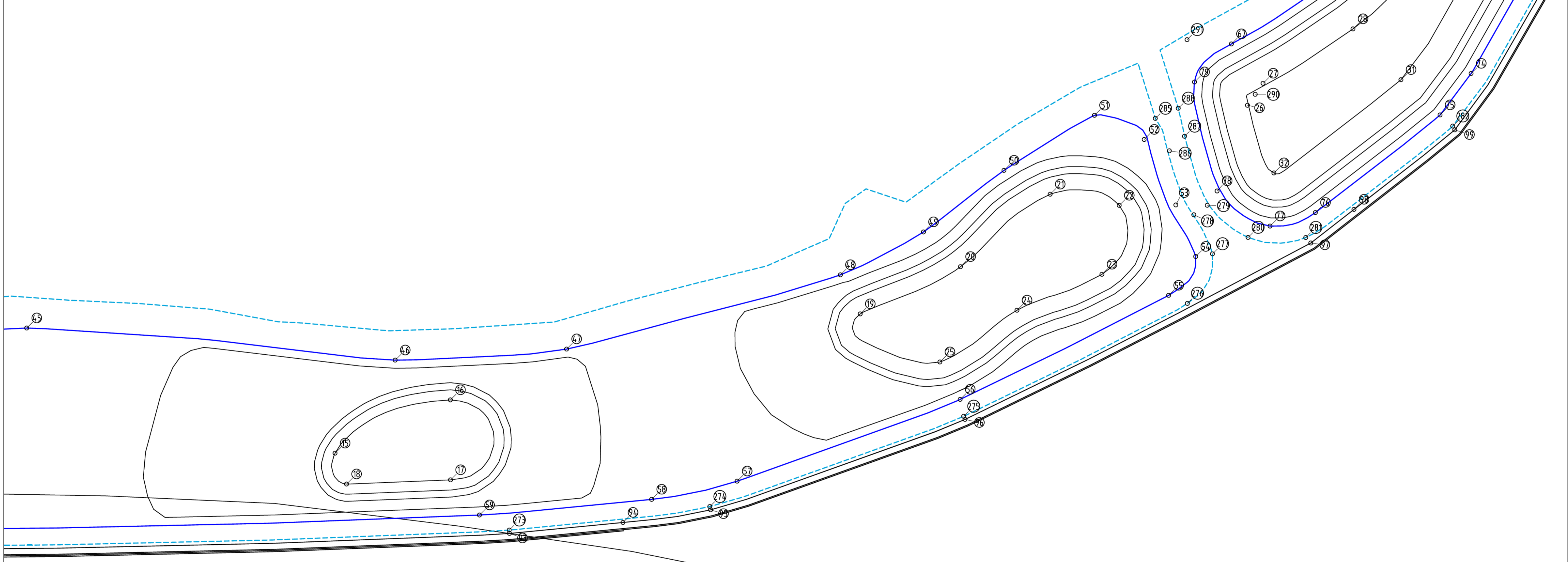
ACT GOVERNMENT ISABELLA PONDS WETLAND			
WATER LEVEL GAUGE			
REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE:
E	IWC-25	A1	NOT TO SCALE
		DATUM: m AHD (AGD66)	

NORTH WETLAND: SETOUT POINT - MAP 1



REFER IWC-25

NORTH WETLAND: SETOUT POINT - MAP 2



REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES	[Redacted]	26.09.16
D	TENDER ISSUE - REVISION	[Redacted]	08.09.16
C	TENDER ISSUE - REVISION	[Redacted]	29.08.16
B	TENDER ISSUE	[Redacted]	05.07.16
A	FOR DOCUMENTATION READINESS	[Redacted]	06.05.16



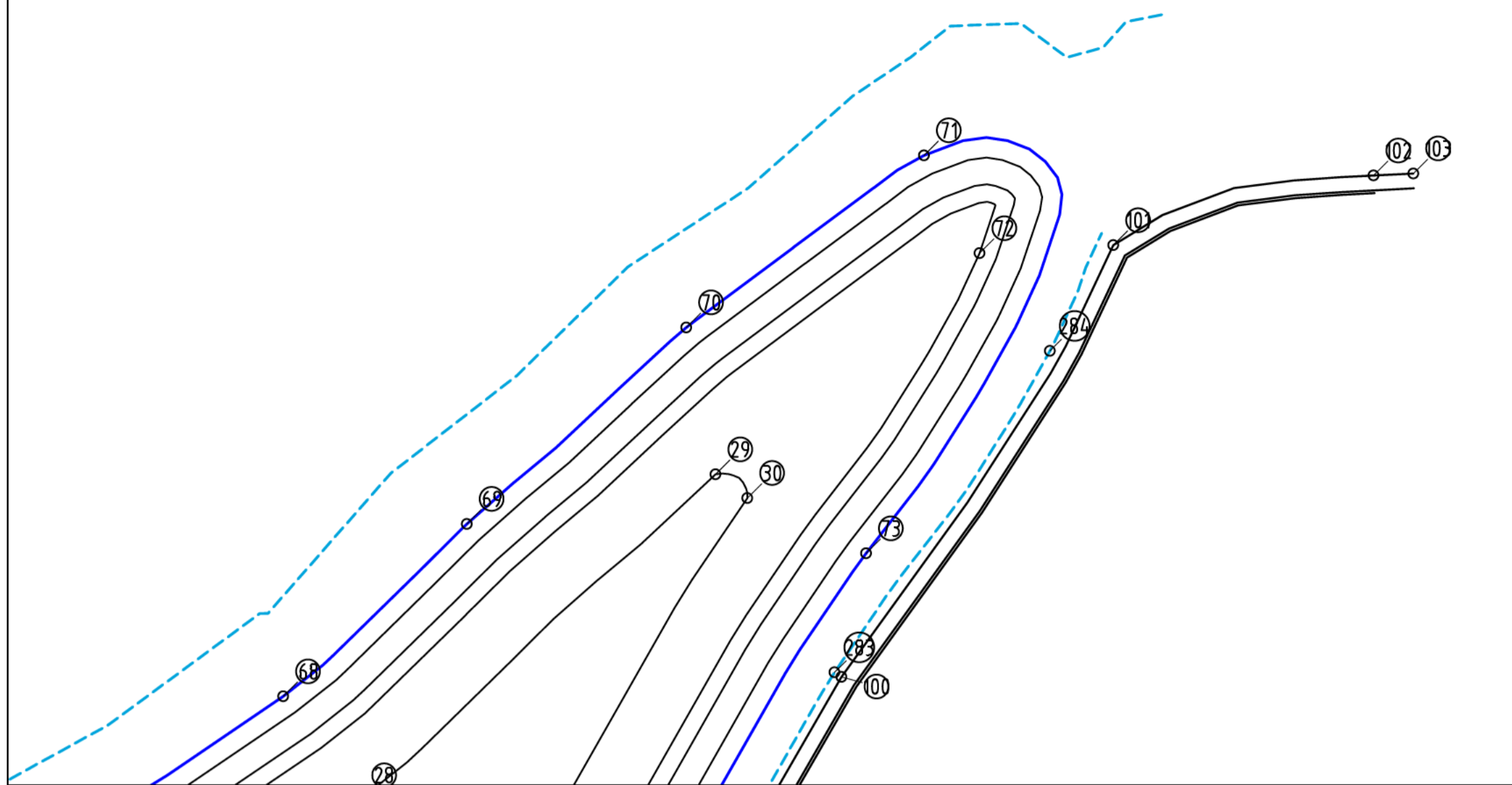
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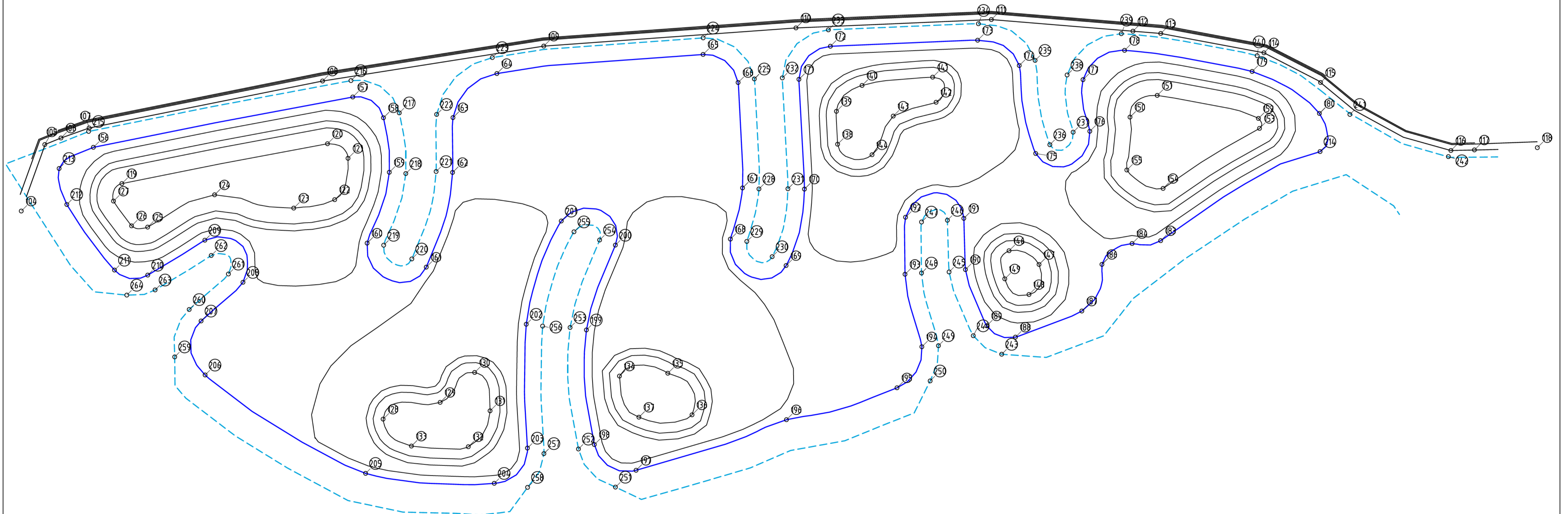
REVISION: E	SHEET No.: IWC-26	ORIGINAL SIZE: A1	SCALE: 1:300 @ A1
		DATUM: m AHD (AGD66)	

ACT GOVERNMENT
 ISABELLA PONDS WETLAND
 NORTH WETLAND
 SETOUT POINTS

NORTH WETLAND: SETOUT POINT - MAP 3



SOUTH WETLAND: SETOUT POINT



REV	DESCRIPTION	APP'D	DATE
E	TENDER ISSUE - FEEDBACK UPDATES	[Redacted]	26.09.16
D	TENDER ISSUE - REVISION	[Redacted]	08.09.16
C	TENDER ISSUE - REVISION	[Redacted]	29.08.16
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A	FOR DOCUMENTATION READINESS	[Redacted]	06.05.16



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REVISION: E	SHEET No.: IWC-27	ORIGINAL SIZE: A1	SCALE: 1:300 @ A1
		DATUM: m AHD (AGD66)	

ACT GOVERNMENT
 ISABELLA PONDS WETLAND
 SOUTH WETLAND
 SETOUT POINTS

Schedule 2.2(a)(ii)

NORTH WETLAND SETOUT POINTS

Table with columns: SETOUT PT., EASTING, NORTHING, ELEVATION (m AHD). Rows include categories like OUTLET POOL BASE, INTERMEDIATE POOL BASE, INLET POOL BASE, SEDIMENTATION POND BASE, NORMAL WATER LEVEL, TOTAL EXTENDED DETENTION, and RETAINING WALL.

Table with columns: 58-103. Rows include categories like TOTAL EXTENDED DETENTION, RETAINING WALL, and MAINTENANCE TRACK.

Table with columns: 265-292. Rows include categories like TOTAL EXTENDED DETENTION, RETAINING WALL, and MAINTENANCE TRACK.

SOUTH WETLAND SETOUT POINTS

Table with columns: SETOUT PT., EASTING, NORTHING, ELEVATION (m AHD). Rows include categories like RETAINING WALL, OUTLET POOL BASE, INTERMEDIATE POOL BASE, and INLET POOL BASE.

Table with columns: 156-214. Rows include categories like NORMAL WATER LEVEL, TOTAL EXTENDED DETENTION, and RETAINING WALL.

Table with columns: 215-264. Rows include categories like TOTAL EXTENDED DETENTION, RETAINING WALL, and NORMAL WATER LEVEL.

Revision table with columns: REV, DESCRIPTION, APP'D, DATE. Includes entries for TENDER ISSUE - FEEDBACK UPDATES, REVISION, and DOCUMENTATION READINESS.

Table with columns: 26, 29, 05, 06. Rows include dates and descriptions.



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ACT GOVERNMENT ISABELLA PONDS WETLAND NORTH AND SOUTH WETLANDS SETOUT POINTS. Includes revision info, sheet number (IWC-28), original size (A1), and scale (1:300 @ A1).

DESIGNED: Schedule 2.2(a)(ii) DRAWN: CHECKED: APPROVED: PROJECT No: P115111