

Plotted: 24 February 2022 10:38:51 AM File Name: J:\9985\DC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\17 - Precinct 7\9985-12-CC17403.dwg



LEGEND

- CATCHMENT BOUNDARY
- EXISTING CATCHMENT BOUNDARY
- FLOW DIRECTION ARROW
- EXISTING CONTOURS -47.0-
- DESIGN CONTOURS -47.0-
- DRAINAGE LINE & PIT
- EXISTING DRAINAGE LINE & PIT
- FUTURE DRAINAGE LINE & PIT

- GPT HYDRAULIC CHECKS (PIT C01/30)**
- GPT HIGH FLOW BYPASS WEIR HEIGHT = 1.4m
 - GPT HIGH FLOW BYPASS WEIR RL = 14.40
 - GPT HIGH FLOW BYPASS WEIR LENGTH = 3.6m
 - ADOPTED GPT VORTEX K FACTOR = 6
 - 2EY HGL IMMEDIATELY UPSTREAM OF GPT WITH ADOPTED K FACTOR = RL 14.40
 - ADOPTED K FACTOR FOR GPT HIGH FLOW BYPASS WEIR = 1.5
 - 10% AEP FLOW OVER GPT HIGH FLOW BYPASS WEIR = 0.78m³/s
 - DEPTH OF 10% AEP FLOW OVER GPT HIGH FLOW BYPASS WEIR FROM WEIR FLOW CALCULATION = 253mm
 - DEPTH OF 10% AEP FLOW OVER GPT HIGH FLOW BYPASS WEIR FROM HYDRAULIC MODEL = 276mm
 - 1% AEP FLOW OVER GPT HIGH FLOW BYPASS WEIR = 1.13m³/s
 - DEPTH OF 1% AEP FLOW OVER GPT HIGH FLOW BYPASS WEIR FROM WEIR FLOW CALCULATION = 324mm
 - DEPTH OF 1% AEP FLOW OVER GPT HIGH FLOW BYPASS WEIR FROM HYDRAULIC MODEL = 443mm
- SPLITTER PIT HYDRAULIC CHECKS (PIT C01/28)**
- 4EY HGL AT DOWNSTREAM GPT = RL 14.40
 - 4EY HGL AT SPLITTER PIT = RL 14.51
 - HIGH FLOW BYPASS WEIR LEVEL = RL 14.52
 - HIGH FLOW BYPASS WEIR LENGTH = 4m
 - ADOPTED K FACTOR FOR SPLITTER PIT HIGH FLOW BYPASS WEIR = 1.5
 - 10% AEP FLOW OVER HIGH FLOW BYPASS WEIR = 3.58m³/sec
 - DEPTH OF 10% AEP FLOW OVER HIGH FLOW BYPASS WEIR FROM WEIR FLOW CALCULATION = 651mm
 - DEPTH OF 10% AEP FLOW OVER HIGH FLOW BYPASS WEIR FROM HYDRAULIC MODEL = 652mm
 - 1% AEP FLOW OVER HIGH FLOW BYPASS WEIR = 4.37m³/sec
 - DEPTH OF 1% AEP FLOW OVER HIGH FLOW BYPASS WEIR FROM WEIR FLOW CALCULATION = 744mm
 - DEPTH OF 1% AEP FLOW OVER HIGH FLOW BYPASS WEIR FROM HYDRAULIC MODEL = 943mm

REFER TO DRAWING CC17402 FOR CONTINUATION

These plans are referred to in certificate no. 16953 approved by:
Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision
Land Development Certificates
www.LDC.com.au

1:500 (AT A1)
 1:1000 (AT A3)

METRES

REV	DESCRIPTION	DES	DRN	CKD	APR	DATE
B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
AMENDMENT						

J. WYNDHAM PRINCE
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CLIENT:

WINTAN PROPERTY GROUP

ISSUE FOR
 CONSTRUCTION
 APPROVAL

THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS
 SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK
 PRECINCT 7, STAGE 7J
 CATCHMENT PLAN
 SHEET 4

PROJECT No:

9985-12

SHEET No:

CC17403

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC17403

DESIGN STORM 10% AEP HYDROLOGIC RESULTS																	
PIT NAME (-)	PIT TYPE (-)	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (min)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	ROAD GRADE (%)	ROAD CROSSFALL (%)	BYPASS PIT (-)	FLOW AT BYPASS PIT (L/s)	FLOW WIDTH AT BYPASS PIT (m)	VxD AT BYPASS PIT (m/s^2)	COMMENTS (-)
C10/9	2.4 m lintel sag	0.152	85	5	5	15	60	60	0	61	0.4	2.8	C01/22	0	1.67	0	SPECIAL PIT - SEE CC17505
C14/1	1.8 m lintel	0.057	95	5	5	15	22	21	1	61	1.9	3	C15/1	19	1.48	0.03	
C14/2	1.8 m lintel	0.06	95	5	5	15	23	22	1	60	1.9	3	C14/3	18	1.14	0.04	
C14/3	1.8 m lintel	0.05	95	5	5	15	18	18	0	47	1.9	3	C14/4	9	0.71	0.03	
C14/4	1.8 m lintel	0.023	95	5	5	5	9	9	0	44	1.9	3	C14/5	7	0.61	0.03	
C14/5	2.4 m lintel sag	0.068	85	5	5	15	7	7	0	23	1	2.8	C14/6	0			
C14/6	2.4 m lintel sag	0.098	85	5	5	5	32	32	0	44	1	2.6	C01/15	0	2.09	0	
C15/1	1.8 m lintel	0.05	95	5	5	25	19	19	0	70	1.9	3	C14/6	30	1.48	0.05	
C16/1	2.4 m lintel	0.115	85	5	5	25	44	41	3	83	1.3	3	C17/1	45	1.92	0.06	
C17/1	1.8 m lintel	0.115	85	5	5	15	45	40	5	76	1.3	3	C21/1	33	1.91	0.05	
C18/1	1.8 m lintel	0.116	85	5	5	15	43	39	4	66	2.9	3	C18/2	31	1.87	0.04	
C18/2	1.8 m lintel	0.073	85	5	5	25	31	29	2	82	2.6	3	C01/3	42	1.87	0.06	
C19/1	1.8 m lintel	0.106	85	5	5	15	43	39	4	88	0.7	3	C01/12	34	1.92	0.05	
C21/1	1.8 m lintel	0.08	85	5	5	25	33	32	1	83	1.3	3	C04/8	43	1.91	0.06	
C23/1	1.8 m lintel	0.115	85	5	5	15	46	42	4	90	0.7	3	C19/1	43	2.14	0.05	
C24/1	1.8 m lintel	0.107	85	5	5	25	40	37	3	83	1.4	3	C25/1	45	1.91	0.06	
C25/1	2.4 m lintel	0.116	85	5	5	25	45	44	1	82	1.4	3	C27/1	44	1.88	0.06	
C26/1	NODE									21		2.5	C47/1	3	0.28	0	HIGHFLOW OUTLET CHAMBER
C26/2	JP SEALED																S7.11 WORKS
C26/3	JP GRATED												LOST			0.33	SURCHARGE/SPECIAL PIT - S7.11 WORKS
C26/4	H.W.																S7.11 WORKS
C27/1	2.4 m lintel	0.115	85	5	5	25	44	42	2	74	1.4	3	C33/1	31	1.85	0.04	
C28/1	2.4 m lintel sag	0.135	85	5	5	15	40	40	0	64	0.7	2.3	C01/18	0	0	0	
C29/1	2.4 m lintel	0.124	85	5	5	25	50	46	4	85	1.2	3	C31/1	46	2.29	0.05	
C30/1	1.8 m lintel	0.047	95	5	5	25	18	18	0	57	0.9	3	C04/1	15	1.88	0.02	
C31/1	2.4 m lintel	0.115	85	5	5	25	46	45	1	94	1.2	3	C34/1	65	2.29	0.07	
C32/1	2.4 m lintel	0.107	85	5	5	25	41	38	3	83	1.3	3	C16/1	44	1.91	0.06	
C33/1	1.8 m lintel	0.08	85	5	5	25	31	30	1	81	1.4	3	C28/1	40	1.85	0.06	
C34/1	2.4 m lintel sag	0.174	85	5	5	5	69	69	0	66	0.6	3.5	C01/21	0	2.02	0.01	
C35/1	1.8 m lintel	0.033	95	5	5	25	13	13	0	76	1.9	3	C37/1	40	1.78	0.06	
C37/1	1.8 m lintel	0.107	85	5	5	25	40	37	3	79	1.9	3	C37/2	46	1.78	0.07	
C37/2	1.8 m lintel	0.116	85	5	5	15	46	41	5	73	1.9	3	C49/1	34	1.59	0.06	
C40/1	1.8 m lintel	0.037	95	5	5	15	14	14	0	89	0.7	3	C44/1	42	2.18	0.05	
C44/1	1.8 m lintel	0.116	85	5	5	15	42	37	5	91	0.7	3	C45/1	44	2.21	0.05	
C45/1	1.8 m lintel	0.107	85	5	5	25	44	40	4	92	0.7	3	C23/1	46	2.21	0.05	
C48/1	2.4 m lintel sag	0.108	85	5	5	15	40	40	0	55	1	2.8	C48/2	0			
C48/2	2.4 m lintel sag	0.074	85	5	5	5	17	17	0	31	0.3	2.9	C05/5	0	0	0	
C49/1	2.4 m lintel	0.08	85	5	5	25	34	34	0	73	1.9	3	C52/1	34	1.59	0.06	
C50/1	1.8 m lintel	0.071	85	5	5	15	26	26	0	81	1.2	3	C51/1	40	2.06	0.05	
C51/1	1.8 m lintel	0.107	85	5	5	15	40	35	5	87	1.2	3	C29/1	50	2.06	0.06	
C52/1	2.4 m lintel sag	0.178	85	5	5	5	56	56	0	60	0.6	2.6	C76/1	0			
C58/1	2.4 m lintel sag	0.032	100	5	5	5	2	2	0	15	0.2	3	C59/1	0	0	0	
C59/1	2.4 m lintel sag	0.035	100	5	5	5	4	4	0	11	0.1	3	LOST	0			
C60/1	2.4 m lintel sag	0.036	100	5	5	5	13	13	0	29	0.2	3	C59/1	0	0	0	
C65/1	1.8 m lintel	0.017	95	5	5	5	7	7	0	44	0.7	3	C65/2	8	1.87	0.01	
C65/2	1.8 m lintel	0.021	95	5	5	25	8	8	0	82	1.2	3	C65/3	37	1.87	0.05	
C65/3	1.8 m lintel	0.099	85	5	5	15	37	34	3	53	1	3	C09/3	14	0.91	0.04	
C73/1	2.4 m lintel sag	0.032	100	5	5	5	12	12	0	36	0.2	3	C58/1	0	0	0	
C75/1	1.8 m lintel	0.046	95	5	5	5	18	18	0	55	2.6	3	C40/1	14	2.14	0.02	
C76/1	2.4 m lintel sag	0.041	100	5	5	5	11	11	0	22	0.1	3	LOST	0			
C76/2	1.8 m lintel	0.025	100	5	5	5	10	10	0	43	0.7	3	C76/1	2	0.38	0.01	
C79/1	1.8 m lintel	0.02	95	5	5	15	8	8	0	41	1	3	C79/2	7	2.3	0.01	
C79/2	1.8 m lintel	0.02	95	5	5	15	7	7	0	94	1.2	3	C80/1	60	2.3	0.07	
C80/1	2.4 m lintel	0.162	85	5	5	15	60	57	3	54	1	3	C03/8	15	0.92	0.04	
C81/1	1.8 m lintel	0.071	85	5	5	25	26	25	1	81	1.3	3	C32/1	41	1.91	0.06	

Plotted: 18 February 2022 10:08:30 AM File Name: J:\9985\DC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\17 - Precinct 7\9985-12-CC17407.dwg

These plans are referred to in certificate no. **16953** approved by:

Christopher Louis Wahbe
Registered Certifier

Registration No: BDC 3015
Categories: Certifier - Subdivision

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B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
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CLIENT:

WINTEN PROPERTY GROUP

STATUS:

ISSUE FOR CONSTRUCTION APPROVAL

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NEWPARK PRECINCT 7, STAGE 7J DRAINAGE CALCULATIONS SHEET 2

PROJECT No: **9985-12**
SHEET No: **CC17407**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC17407**

B

Plotted: 18 February 2022 10:09:49 AM File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\17 - Precinct 7\9985-12-CC17410.dwg

DESIGN STORM 5% AEP HYDROLOGIC RESULTS

PIT NAME (-)	PIT TYPE (-)	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (min)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	COMMENTS (-)
CG/1	IAD 600x900	0.03	80	5	5	15	13	13	0	0	
CG/2	IAD 900x900	0.036	80	5	5	15	15	15	0	0	
CH/1	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CH/2	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CH/3	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CH/4	IAD 600x900	0.034	80	5	5	15	15	15	0	0	
CH/5	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CH/6	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CH/7	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CH/8	IAD 600x900	0.034	80	5	5	15	15	15	0	0	
CH/9	IAD 900x900	0.028	80	5	5	15	12	12	0	0	
CH/10	IAD 900x900	0.028	80	5	5	15	12	12	0	0	
CH/11	IAD 900x900	0.028	80	5	5	15	12	12	0	0	
CH/12	IAD 900x900	0.034	80	5	5	15	15	15	0	0	
CH/13	IAD 900x900	0	0			5	0	0	0	0	
CI/1	IAD 600x900	0.055	80	5	5	15	24	24	0	0	
CI/2	IAD 600x900	0.041	80	5	5	15	18	18	0	0	
CI/1	IAD 600x900	0.051	80	5	5	15	22	22	0	0	
CI/2	IAD 600x900	0.03	80	5	5	15	13	13	0	0	
CI/3	IAD 600x900	0.03	80	5	5	15	13	13	0	0	
CI/4	IAD 900x900	0.042	80	5	5	15	18	18	0	0	
CK/1	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CK/2	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CK/3	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CK/4	IAD 600x900	0.035	80	5	5	15	15	15	0	0	
CK/5	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CK/6	IAD 600x900	0.035	80	5	5	15	15	15	0	0	
CK/7	IAD 600x900	0	0			5	0	0	0	0	
CK/8	IAD 900x900	0	0			5	0	0	0	0	
CL/1	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CL/2	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CL/3	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CL/4	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CL/5	IAD 600x900	0	0			5	0	0	0	0	
CL/6	IAD 600x900	0.029	80	5	5	25	13	13	0	0	
CL/7	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CL/8	IAD 900x900	0	0			5	0	0	0	0	
CM/1	IAD 600x900	0.031	80	5	5	15	13	13	0	0	
CM/2	IAD 600x900	0.031	80	5	5	25	14	14	0	0	
CM/3	IAD 900x900	0	0			5	0	0	0	0	
CQ/1	IAD 600x900	0.038	80	5	5	15	17	17	0	0	
CQ/2	IAD 600x900	0.031	80	5	5	15	13	13	0	0	
CQ/3	IAD 600x900	0.03	80	5	5	15	13	13	0	0	
CQ/4	IAD 600x900	0.03	80	5	5	15	13	13	0	0	
CQ/5	IAD 900x900	0.035	80	5	5	15	15	15	0	0	
CR/1	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CR/2	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CR/3	IAD 600x900	0.034	80	5	5	15	15	15	0	0	
CR/4	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CR/5	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CR/6	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CR/7	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CR/8	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CR/9	IAD 600x900	0.034	80	5	5	15	15	15	0	0	
CR/10	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CR/11	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CR/12	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CR/13	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CR/14	IAD 600x900	0	0			5	0	0	0	0	
CR/15	IAD 900x900	0	0			5	0	0	0	0	
CS/1	IAD 600x900	0.036	80	5	5	15	16	16	0	0	
CS/2	IAD 600x900	0.031	80	5	5	15	13	13	0	0	
CS/3	IAD 600x900	0.031	80	5	5	15	14	14	0	0	
CS/4	IAD 600x900	0.032	80	5	5	15	14	14	0	0	
CS/5	IAD 900x900	0.04	80	5	5	15	17	17	0	0	
CT/1	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CT/2	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CT/3	IAD 600x900	0.034	80	5	5	15	15	15	0	0	
CT/4	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CT/5	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CT/6	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CT/7	IAD 600x900	0.028	80	5	5	15	12	12	0	0	
CT/8	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CT/9	IAD 600x900	0.034	80	5	5	15	15	15	0	0	
CT/10	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CT/11	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CT/12	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CT/13	IAD 600x900	0.027	80	5	5	15	12	12	0	0	
CT/14	IAD 600x900	0	0			5	0	0	0	0	
CT/15	IAD 900x900	0	0			5	0	0	0	0	

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Registration No: BDC 3015
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B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

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CLIENT:
 **WINTER PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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**NEWPARK
PRECINCT 7, STAGE 7J
DRAINAGE CALCULATIONS
SHEET 5**

PROJECT No: **9985-12**
SHEET No: **CC17410**

Plotted: 18 February 2022 10:10:42 AM File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\17 - Precinct 7\9985-12-CC17412.dwg

DESIGN STORM 1% AEP HYDROLOGIC RESULTS

Table with columns: PIT NAME (-), PIT TYPE (-), CATCHMENT AREA (Ha), PERCENT IMPERVIOUS (%), Tc IMP (min), Tc PERV (min), CRITICAL STORM (min), APPROACH FLOW (L/s), CAPTURED FLOW (L/s), UNCAPTURED FLOW (L/s), GRATE DEPTH (mm), ROAD GRADE (%), ROAD CROSSFALL (%), BYPASS PIT (-), FLOW AT BYPASS PIT (L/s), FLOW WIDTH AT BYPASS PIT (m), VxD AT BYPASS PIT (m/s^2), COMMENTS (-). Rows include nodes C01/1 to C10/8 with various flow and storm parameters.

LDC logo and text: These plans are referred to in certificate no. 16953 approved by: Christopher Louis Wahbe Registered Certifier. Registration No: BDC 3015 Categories: Certifier - Subdivision Land Development Certificates www.LDC.com.au

Table with 4 columns: Description, DG, NW, KM, MS. Rows include: ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL (18/02/22), ISSUE FOR CAA APPROVAL (13/12/21), AMENDMENT (DES, DRN, CKD, APR, DATE).

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS. PO Box 4366 PENRITH WESTFIELD NSW 2750. P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

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STATUS: ISSUE FOR CONSTRUCTION APPROVAL. THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK PRECINCT 7, STAGE 7J DRAINAGE CALCULATIONS SHEET 7. AZIMUTH: M.G.A.94. DATUM: A.H.D. ORIGIN: SSM 1112. PLAN No: 9985-12-CC17412

PROJECT No: 9985-12. SHEET No: CC17412. B

Plotted: 18 February 2022 10:11:07 AM File Name: J:\9985\DC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\17 - Precinct 7\9985-12-CC17413.dwg

DESIGN STORM 1% AEP HYDROLOGIC RESULTS

PIT NAME (-)	PIT TYPE (-)	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (min)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	ROAD GRADE (%)	ROAD CROSSFALL (%)	BYPASS PIT (-)	FLOW AT BYPASS PIT (L/s)	FLOW WIDTH AT BYPASS PIT (m)	VxD AT BYPASS PIT (m/s ²)	COMMENTS (-)
C10/9	2.4 m lintel sag	0.152	85	5	5	10	108	107	1	127	0.4	2.8	C01/22	0	1.92	0	SPECIAL PIT - SEE CC17505
C14/1	1.8 m lintel	0.057	95	5	5	15	30	22	8	71	1.9	3	C15/1	32	1.88	0.05	
C14/2	1.8 m lintel	0.06	95	5	5	15	31	24	7	72	1.9	3	C14/3	33	1.53	0.06	
C14/3	1.8 m lintel	0.05	95	5	5	15	33	25	8	61	1.9	3	C14/4	19	1.73	0.04	
C14/4	1.8 m lintel	0.023	95	5	5	15	19	15	4	77	1.9	3	C14/5	41	5.59	0.04	
C14/5	2.4 m lintel sag	0.068	85	5	5	15	41	41	0	187	1	2.8	C14/6	49			
C14/6	2.4 m lintel sag	0.098	85	5	5	15	76	71	5	99	1	2.6	C01/15	0	2.38	0	
C15/1	1.8 m lintel	0.05	95	5	5	15	32	24	8	82	1.9	3	C14/6	51	2.46	0.07	
C16/1	2.4 m lintel	0.115	85	5	5	15	81	52	29	101	1.3	3	C17/1	88	2.53	0.09	
C17/1	1.8 m lintel	0.115	85	5	5	15	88	54	34	97	1.3	3	C21/1	75	2.54	0.08	
C18/1	1.8 m lintel	0.116	85	5	5	15	68	45	23	81	2.9	3	C18/2	62	2.43	0.06	
C18/2	1.8 m lintel	0.073	85	5	5	15	62	38	24	98	2.6	3	C01/3	79	5.35	0.05	
C19/1	1.8 m lintel	0.106	85	5	5	15	85	54	31	109	0.7	3	C01/12	72	3.93	0.06	
C21/1	1.8 m lintel	0.08	85	5	5	15	75	48	27	101	1.3	3	C04/8	86	2.98	0.08	
C23/1	1.8 m lintel	0.115	85	5	5	15	86	55	31	110	0.7	3	C19/1	85	2.83	0.07	
C24/1	1.8 m lintel	0.107	85	5	5	15	58	40	18	97	1.4	3	C25/1	79	2.45	0.08	
C25/1	2.4 m lintel	0.116	85	5	5	15	79	55	24	99	1.4	3	C27/1	83	2.45	0.09	
C26/1	NODE		0			10	3	3	0	38		2.5	C47/1	4	0.72	0.01	HIGHFLOW OUTLET CHAMBER
C26/2	JP SEALED		0			10	0	0	0	0							S7.11 WORKS
C26/3	JP GRATED		0			10	0	-1547	1751	273					0.47		SURCHARGE/SPECIAL PIT - S7.11 WORKS
C26/4	H.W.					10	0	0	0	0							S7.11 WORKS
C27/1	2.4 m lintel	0.115	85	5	5	15	83	58	25	93	1.4	3	C33/1	67	2.44	0.07	
C28/1	2.4 m lintel sag	0.135	85	5	5	15	79	79	0	132	0.7	2.3	C01/18	0	0	0	
C29/1	2.4 m lintel	0.124	85	5	5	15	89	56	33	104	1.2	3	C31/1	92	2.92	0.08	
C30/1	1.8 m lintel	0.047	95	5	5	15	25	19	6	67	0.9	3	C04/1	26	2.25	0.03	
C31/1	2.4 m lintel	0.115	85	5	5	15	92	63	29	113	1.2	3	C34/1	120	3.8	0.09	
C32/1	2.4 m lintel	0.107	85	5	5	15	67	46	21	99	1.3	3	C16/1	81	2.53	0.08	
C33/1	1.8 m lintel	0.08	85	5	5	15	67	44	23	98	1.4	3	C28/1	79	3.56	0.06	
C34/1	2.4 m lintel sag	0.174	85	5	5	15	126	123	3	139	0.6	3.5	C01/21	0	2.32	0.01	
C35/1	1.8 m lintel	0.033	95	5	5	15	18	14	4	85	1.9	3	C37/1	60	2.25	0.07	
C37/1	1.8 m lintel	0.107	85	5	5	15	60	41	19	93	1.9	3	C37/2	79	2.25	0.09	
C37/2	1.8 m lintel	0.116	85	5	5	15	79	50	29	90	1.9	3	C49/1	70	2.14	0.09	
C40/1	1.8 m lintel	0.037	95	5	5	15	25	19	6	102	0.7	3	C44/1	66	2.75	0.06	
C44/1	1.8 m lintel	0.116	85	5	5	15	66	41	25	108	0.7	3	C45/1	79	2.85	0.07	
C45/1	1.8 m lintel	0.107	85	5	5	15	79	51	28	111	0.7	3	C23/1	86	2.85	0.08	
C48/1	2.4 m lintel sag	0.108	85	5	5	15	68	68	0	107	1	2.8	C48/2	0	0	0	
C48/2	2.4 m lintel sag	0.074	85	5	5	10	24	24	0	57	0.3	2.9	C05/5	0	0	0	
C49/1	2.4 m lintel	0.08	85	5	5	15	70	51	19	89	1.9	3	C52/1	67	4.13	0.06	
C50/1	1.8 m lintel	0.071	85	5	5	15	38	28	10	94	1.2	3	C51/1	65	2.6	0.06	
C51/1	1.8 m lintel	0.107	85	5	5	15	65	40	25	103	1.2	3	C29/1	89	2.63	0.09	
C52/1	2.4 m lintel sag	0.178	85	5	5	10	141	138	3	149	0.6	2.6	C76/1	0	0	0	
C58/1	2.4 m lintel sag	0.032	100	5	5	15	3	3	0	30	0.2	3	C59/1	0	0	0	
C59/1	2.4 m lintel sag	0.035	100	5	5	10	6	5	0	21	0.1	3	LOST	0	0	0	
C60/1	2.4 m lintel sag	0.036	100	5	5	15	19	19	0	54	0.2	3	C59/1	0	0	0	
C65/1	1.8 m lintel	0.017	95	5	5	15	9	7	2	53	0.7	3	C65/2	13	2.22	0.02	
C65/2	1.8 m lintel	0.021	95	5	5	15	13	11	2	92	1.2	3	C65/3	55	2.22	0.06	
C65/3	1.8 m lintel	0.099	85	5	5	15	55	39	16	68	1	3	C09/3	33	5.81	0.03	
C73/1	2.4 m lintel sag	0.032	100	5	5	15	17	17	0	64	0.2	3	C58/1	0	0	0	
C75/1	1.8 m lintel	0.046	95	5	5	15	25	19	6	66	2.6	3	C40/1	25	2.55	0.03	
C76/1	2.4 m lintel sag	0.041	100	5	5	10	19	18	1	46	0.1	3	LOST	0	0	0	
C76/2	1.8 m lintel	0.025	100	5	5	10	13	11	2	60	0.7	3	C76/1	6	0.74	0.02	
C79/1	1.8 m lintel	0.02	95	5	5	15	11	9	2	51	1	3	C79/2	13	2.68	0.01	
C79/2	1.8 m lintel	0.02	95	5	5	15	13	10	3	106	1.2	3	C80/1	88	2.68	0.08	
C80/1	2.4 m lintel	0.162	85	5	5	15	88	62	26	73	1	3	C03/8	42	5.41	0.03	
C81/1	1.8 m lintel	0.071	85	5	5	15	38	27	11	93	1.3	3	C32/1	67	2.44	0.07	



These plans are referred to in certificate no. **16953** approved by:
Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
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B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
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STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

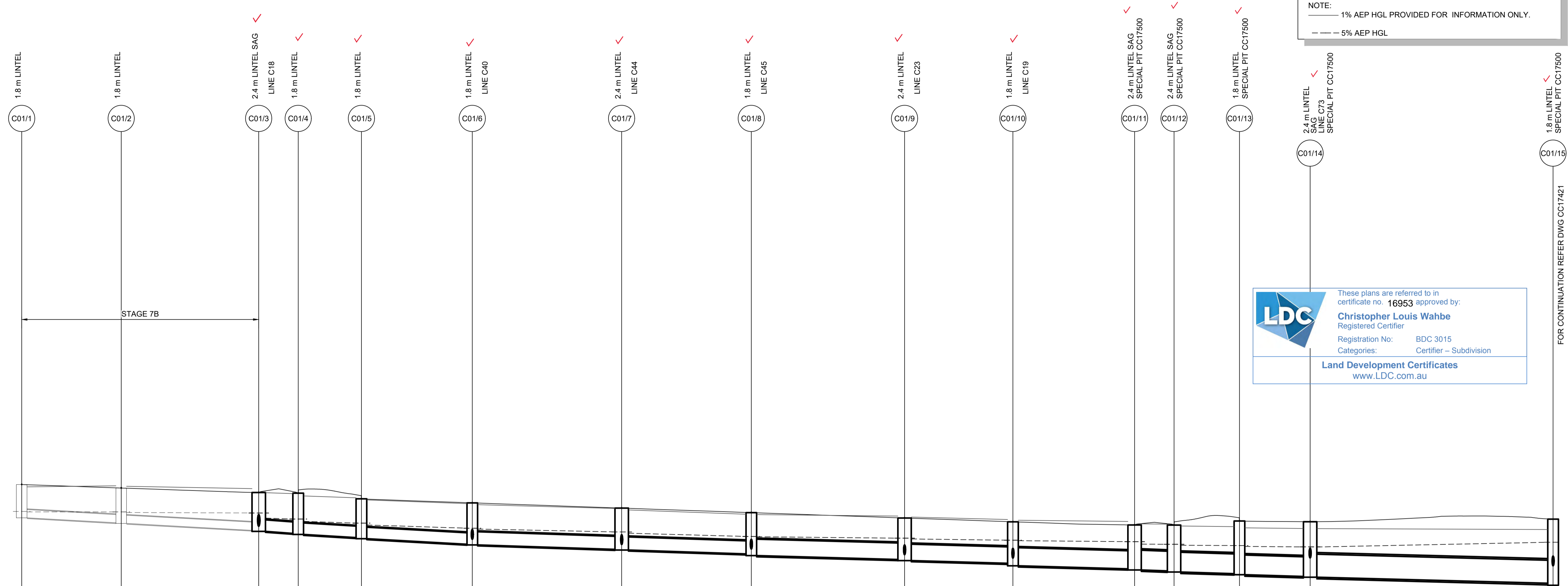
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**NEWPARK
 PRECINCT 7, STAGE 7J
 DRAINAGE CALCULATIONS
 SHEET 8**

PROJECT No: **9985-12**
 SHEET No: **CC17413**

AMOUNT: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC17413**

Plotted: 18 February 2022 10:12:15 AM File Name: J:\9985\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS17 - Precinct 7\9985-12-CC17420.dwg



NOTE:
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 - - - 5% AEP HGL

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 Categories: Certifier - Subdivision
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FOR CONTINUATION REFER DWG CC17421

DATUM (m)	11.00														
PEAK FLOW (L/s)	32	73	353	383	388	474	553	609	675	723	762	806	812	894	
PIPE SIZE (mm)	375	375	525 ✓	525 ✓	525 ✓	600 ✓	600 ✓	750 ✓	750 ✓	825 ✓	900 ✓	900 ✓	900 ✓	1050 ✓	
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	
PIPE GRADE (%)	1.0	1.0	1.0 1.3	1.0 0.8	1.0 0.8	0.6 0.6	0.6 0.6	0.5 0.5	0.5 0.5	0.5 0.5	0.5 0.5	0.5 0.7	0.5 0.5	0.5 0.5	
PIPE COVER MINIMUM	1.10	1.20	1.28	1.39	1.24	1.25	1.25	1.10	1.10	1.10	1.15	1.37	1.48	1.41	
FULL PIPE VELOCITY (m/s)	0.97	0.84	1.63	1.85	1.85	1.69	2.02	1.80	1.82	1.41	1.37	1.66	1.87	2.17	
HGL GRADE (%)	0.01	0.07	0.48	0.56	0.58	0.38	0.5	0.19	0.23	0.15	0.09	0.09	0.14	-0.39	
NOTE: 10% AEP VALUES SHOWN															
WAE															
HYDRAULIC GRADE LINE	16.249	16.246	17.28	17.28	17.28	16.536	16.536	16.329	16.329	16.078	16.078	15.64	15.64	15.3	14.99
INVERT LEVEL	17.978	17.751	17.58	17.58	17.58	16.54	16.54	16.33	16.33	16.08	16.08	15.68	15.68	15.3	14.99
DESIGN SURFACE LEVEL	19.497	19.338	19.13	19.13	19.13	18.66	18.66	18.24	18.24	17.97	17.97	17.63	17.63	17.3	17.0
ROAD CHAINAGE	75.95	96.64	128.00	128.00	128.00	136.813	136.813	166.371	166.371	201.318	201.318	253.789	253.789	293.792	349.19
PIPE CHAINAGE	0	22.697	54.054	63.056	77.469	102.748	136.813	166.371	166.371	201.318	226.023	253.789	277.674	293.792	349.19

LINE C01

B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

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 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:
WINTER PROPERTY GROUP

STATUS:
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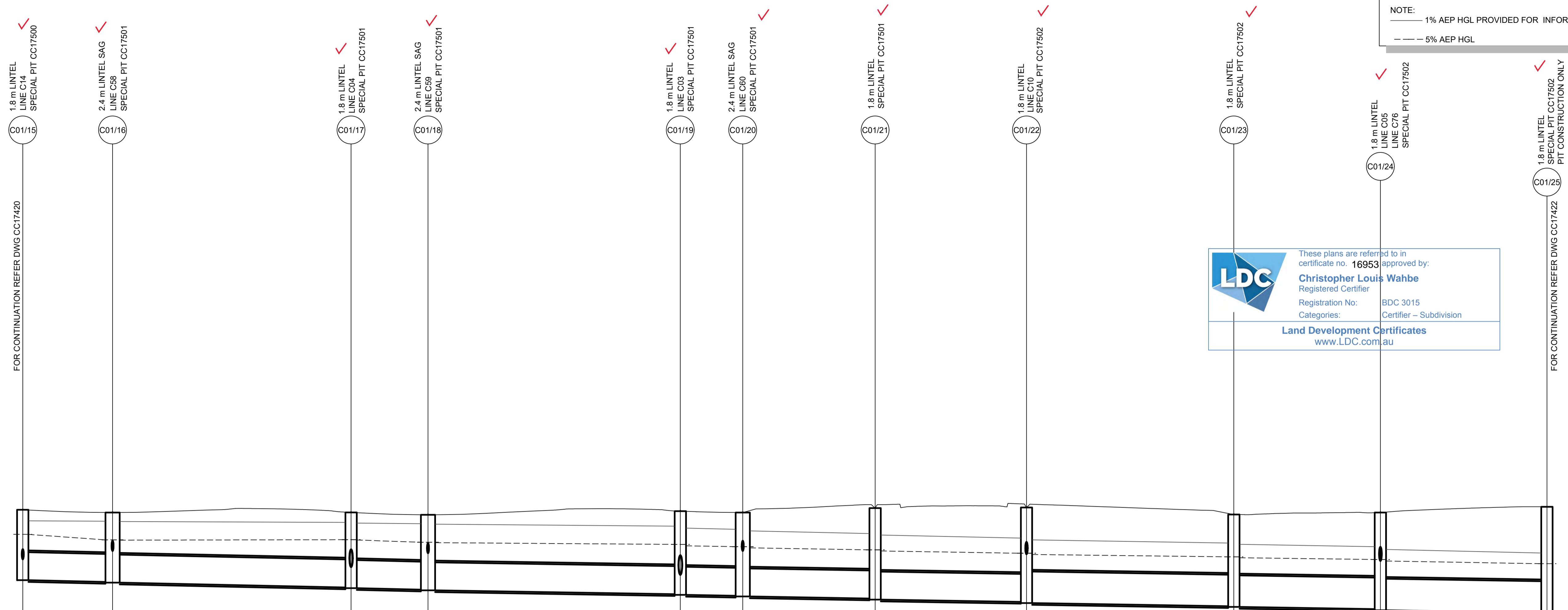
NEWPARK PRECINCT 7, STAGE 7J
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 1

PROJECT No: **9985-12**
 SHEET No: **CC17420**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC17420**

PROJECT No: **9985-12**
 SHEET No: **CC17420**
 PLAN No: **9985-12-CC17420**

Plotfile: 18 February 2022 10:12:35 AM File Name: J:\9985\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\17 - Precinct 7\9985-12-CC17421.dwg



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 Categories: Certifier - Subdivision
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	C01/15		C01/16		C01/17		C01/18		C01/19		C01/20		C01/21		C01/22		C01/23		C01/24		C01/25																				
DATUM (m)	9.00																																								
PEAK FLOW (L/s)	1901		1116		1746		1483		2872		2336		2343		2758		2775		3160																						
PIPE SIZE (mm)	1200 ✓		1200 ✓		1200 ✓		1200 ✓		1200 ✓		1200 ✓		1200 ✓		1350 ✓		1350 ✓		1350 ✓																						
PIPE CLASS	RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2																						
PIPE GRADE (%)	0.4 0.4		0.4 0.4		0.4 0.4		0.3 0.3		0.3 0.3		0.3 0.3		0.3 0.4		0.3 0.3		0.3 0.4		0.3 0.3																						
PIPE COVER MINIMUM	1.69		1.73		1.93		1.97		2.29		2.41		2.68		2.55		2.53		2.78																						
FULL PIPE VELOCITY (m/s)	1.96		1.43		1.76		1.31		2.54		2.08		2.07		1.96		1.94		2.21																						
HGL GRADE (%)	1.22		-0.04		0.58		0.14		0.29		0.3		0.3		0.22		0.24		0.32																						
NOTE: 10% AEP VALUES SHOWN																																									
WAE																																									
HYDRAULIC GRADE LINE	16.862	16.861		16.626	16.614		16.633	16.62		16.524	16.506		16.432	16.372		16.333	16.283		16.197	16.15		16.052	15.998		15.899	15.859		15.785	15.719		15.604										
INVERT LEVEL	14.99	14.953	14.898	14.90	14.81	14.821	14.791	14.78	14.59	14.587	14.557	14.55	14.49	14.491	14.481	14.45	14.30	14.288	14.268	14.26	14.22	14.228	14.198	14.20	14.15	14.113	14.068	14.06	13.94	13.965	13.915	13.89	13.76	13.782	13.752	13.74	13.658	13.608	13.59	13.501	
DESIGN SURFACE LEVEL	17.916	17.90	17.918	17.90	17.77	17.799	17.799	17.76	17.803	17.803	17.803	17.76	17.86	17.86	17.86	17.77	17.857	17.857	17.83	17.98	17.988	17.988	17.799	17.77	17.98	17.98	17.98	18.00	18.012	18.012	18.012	17.75	17.75	17.75	17.75	17.8	17.8	17.8	N/A		
ROAD CHAINAGE	1090.55	1090.55	1109.81	1109.81	1160.99	1160.99	1177.48	1177.48	1231.62	1231.62	1231.62	1245.00	1245.00	1273.71	1273.71	1307.00	1307.00	1351.78	1351.78	1377.15	1377.15	1383.17	1383.17	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98	1417.98
PIPE CHAINAGE	349.19	349.19	368.452	368.452	419.624	419.624	436.122	436.122	490.254	490.254	490.254	503.638	503.638	522.044	522.044	564.514	564.514	608.99	608.99	640.434	640.434	640.434	640.434	676.162	676.162	676.162	676.162	676.162	676.162	676.162	676.162	676.162	676.162	676.162	676.162	676.162	676.162	676.162	676.162	676.162	676.162

LINE C01

PIT UNDER CONSTRUCTION

B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:

WINTERY PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK
 PRECINCT 7, STAGE 7J
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 2

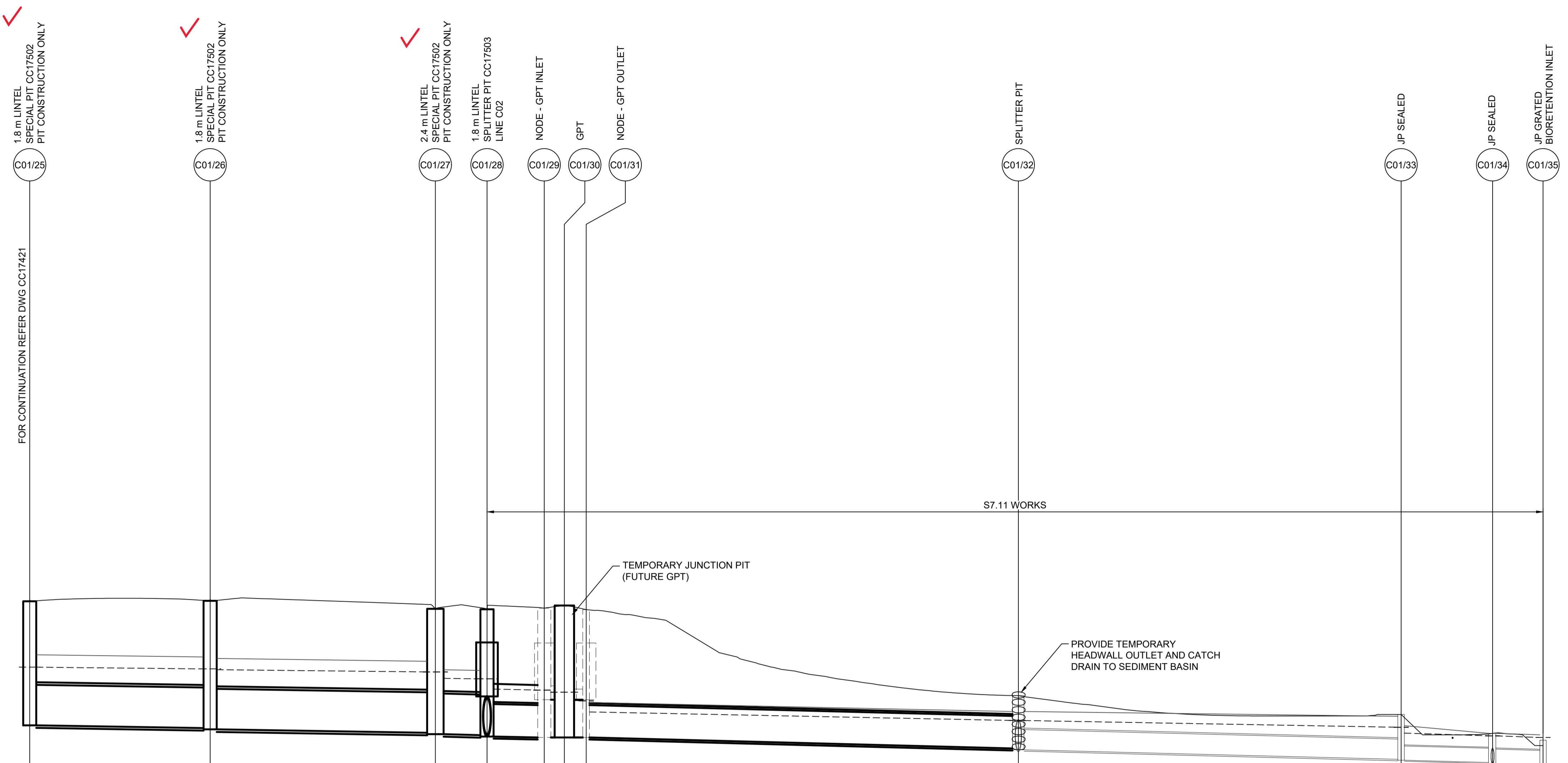
PROJECT No: **9985-12**
 SHEET No: **CC17421**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC17421**

PROJECT No: **9985-12**
 SHEET No: **CC17421**

B

Plotted: 18 February 2022 10:12:58 AM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\17 - Precinct 7\9985-12-CC17422.dwg



NOTE:
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 - - - 5% AEP HGL

DATUM (m)	9.00														
PEAK FLOW (L/s)	3173		3190		3221	2516	1740	1563			2516		715	382	
PIPE SIZE (mm)	1500 ✓		1500 ✓		1500 ✓	1200	GPT	GPT			1200		750	525	
PIPE CLASS	RRJ2		RRJ2		RRJ2	RRJ2	INLET	OUTLET			RRJ2		(2x)525	RRJ2	
PIPE GRADE (%)	0.3 0.3		0.3 0.3		0.4 0.4	0.4	-0.0	-0.0			0.5		0.5	0.5	
PIPE COVER MINIMUM	3.01		3.16		3.11	3.54	3.42	3.36			0.68		0.39	0.13	
FULL PIPE VELOCITY (m/s)	1.80		1.80		1.82	2.22	1.31	1.51			2.29		1.62	1.77	
HGL GRADE (%)	0.19		0.2		0.18	0.35	0.08	0.27			0.4		0.35	0.67	
NOTE: 10% AEP VALUES SHOWN															
WAE															
HYDRAULIC GRADE LINE	15.604		15.54		15.427	15.189	14.756	14.679	14.676	14.369	14.358	13.947	13.631	13.629	
INVERT LEVEL	13.49 13.501 13.451 13.45 13.45 13.32		13.36 13.35 13.3 13.32		13.18 13.175 13.125 13.12 13.08 13.087 13.037 14.793 NA BOARD	13	13	13	13	13	13	13	12.596 12.546	13.38 13.163	12.077 12.047 13.063
DESIGN SURFACE LEVEL	18.042 N/A 18.042 18.061 18.061 17.766 N/A 17.747		18.042 N/A 18.061 18.061 17.766 N/A 17.747		18.042 N/A 18.061 18.061 17.766 N/A 17.747	17.791	17.791	17.791	17.886	17.886	17.735	13	14.549	13.853	13.153
ROAD CHAINAGE	676.162	1417.98			709.555	1490.51	1492.46	1495.71	771.39	775.109	1485.09	17.886			
PIPE CHAINAGE													859.135	929.982	946.904

LINE C01

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B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO Box 4366 PENRITH WESTFIELD NSW 2750
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CLIENT:
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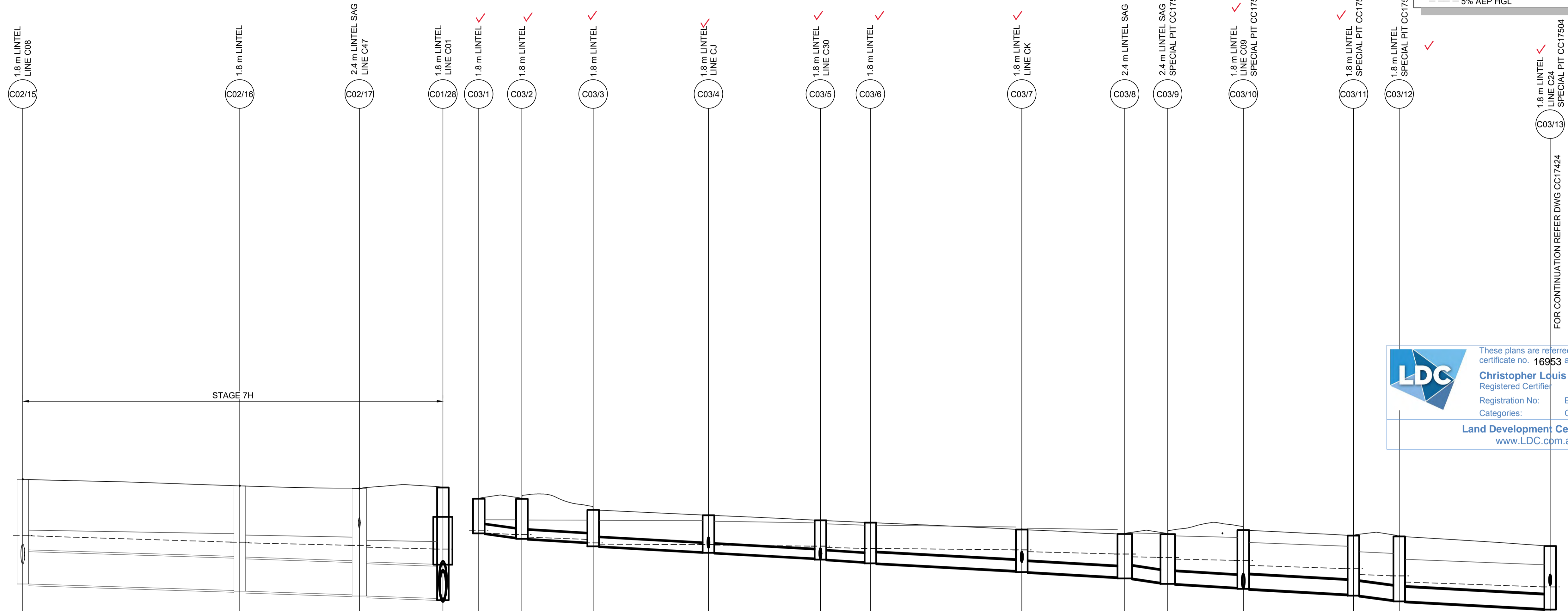
NEWPARK
 PRECINCT 7, STAGE 7J
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 3

PROJECT No: **9985-12**
 SHEET No: **CC17422**

AZIMUTH: M.G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC17422	B
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Plotted: 18 February 2022 10:13:15 AM File Name: J:\9985\DWG - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\17 - Precinct 7\9985-12-CC17423.dwg

NOTE:
 - - - 1% AEP HGL PROVIDED FOR INFORMATION ONLY.
 - - - 5% AEP HGL



WAE	LINE C02			LINE C03														
	PK	CH	INVERT	PK	CH	INVERT	PK	CH	INVERT	PK	CH	INVERT	PK	CH	INVERT	PK	CH	INVERT
DATUM (m)	9.00			13.00														
PEAK FLOW (L/s)	2775			22	47	57	114	156	157	235	261	303	557	563	584			
PIPE SIZE (mm)	1350			375 ✓	375 ✓	375 ✓	375 ✓	375 ✓	450 ✓	450 ✓	525 ✓	525 ✓	600 ✓	600 ✓	600 ✓			
PIPE CLASS	RRJ2			RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2			
PIPE GRADE (%)	0.6			2.0 1.8	1.0 1.0	1.0 1.2	1.0 1.2	1.0 1.1	1.0 1.1	1.0 0.9	2.0 2.0	1.0 1.1	1.0 0.9	2.0 1.9	1.0 1.1			
PIPE COVER MINIMUM	2.94			1.10	1.13	1.10	1.15	1.22	1.20	1.27	1.36	1.71	1.80	1.92	2.00			
FULL PIPE VELOCITY (m/s)	2.73			0.88	1.11	1.12	1.33	1.54	1.54	1.53	1.35	1.40	1.97	1.99	2.20			
HGL GRADE (%)	0.59			0.77	0.64	0.05	0.2	0.41	0.19	0.45	0.27	0.34	0.6	0.62	0.65			
NOTE: 10% AEP VALUES SHOWN																		
HYDRAULIC GRADE LINE	15.749	15.729		19.848	19.83	19.86	19.71	19.649	19.779	19.673		19.848	19.83	19.86	19.71	19.649	19.779	19.673
INVERT LEVEL	13.743	13.713		19.83	19.86	19.71	19.649	19.779	19.673		19.848	19.83	19.86	19.71	19.649	19.779	19.673	
DESIGN SURFACE LEVEL	16.084			21.277	21.25	21.273	21.22	21.22	21.22	21.22	21.22	21.22	21.22	21.22	21.22	21.22	21.22	21.22
ROAD CHAINAGE	1581.17			225.54	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00
PIPE CHAINAGE	374.851			0	9.016	23.942	48.056	71.474	81.934	113.609	135.139	144.141	159.938	182.989	192.562	224.149		

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 Registered Certifier
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FOR CONTINUATION REFER DWG CC17424

AMENDMENT	DES	DRN	CKD	APR	DATE	
B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21

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NEWPARK
 PRECINCT 7, STAGE 7J
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 4

PROJECT No:
9985-12
 SHEET No:
CC17423

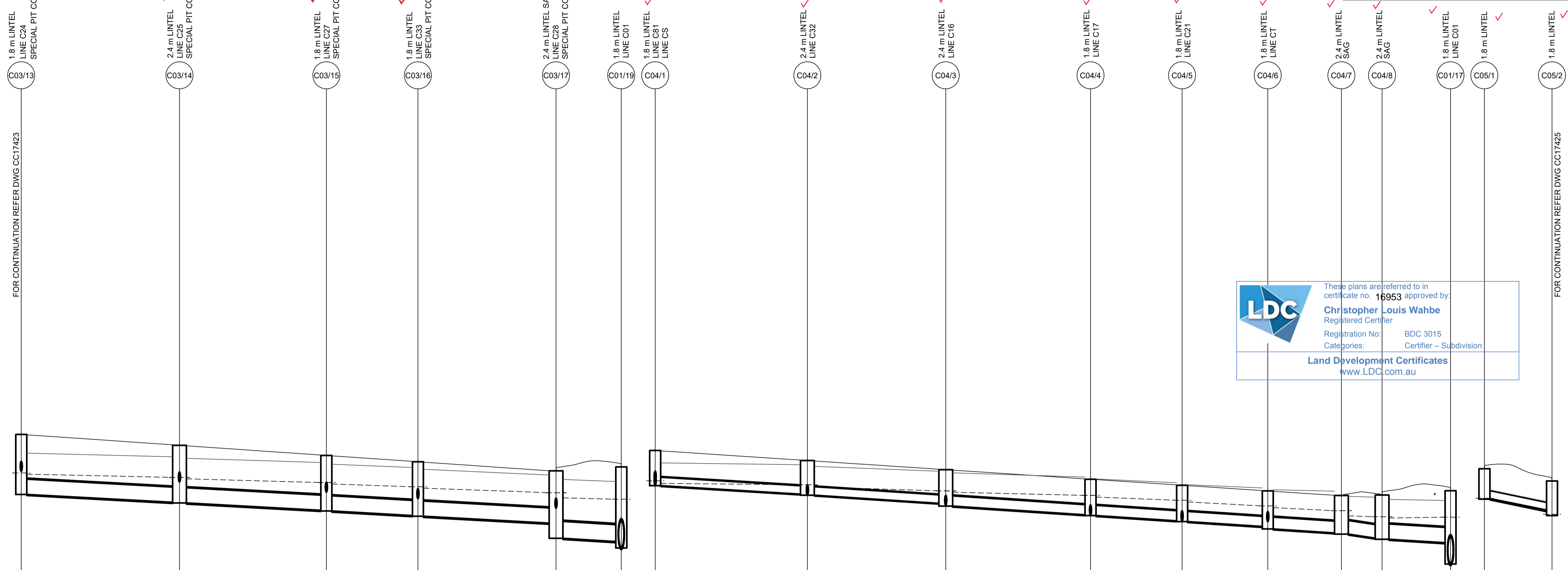
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FOR CONTINUATION REFER DWG CC17423

FOR CONTINUATION REFER DWG CC17504

FOR CONTINUATION REFER DWG CC17425

NOTE:
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DATUM (m)		10.00	
PEAK FLOW (L/s)		665	709
PIPE SIZE (mm)		675 ✓	675 ✓
PIPE CLASS		RRJ2	RRJ2
PIPE GRADE (%)		1.0 1.0	1.0 0.9
PIPE COVER MINIMUM		1.82	1.72
FULL PIPE VELOCITY (m/s)		2.39	2.37
HGL GRADE (%)		0.41	0.5

WAE		11.00	
HYDRAULIC GRADE LINE		17.591	17.538
INVERT LEVEL		16.64	16.62
DESIGN SURFACE LEVEL		19.27	19.296
ROAD CHAINAGE		133.93	133.93
PIPE CHAINAGE		224.149	224.149

DATUM (m)		11.00	
PEAK FLOW (L/s)		103	175
PIPE SIZE (mm)		375 ✓	375 ✓
PIPE CLASS		RRJ2	RRJ2
PIPE GRADE (%)		1.1 1.1	1.2 1.1
PIPE COVER MINIMUM		1.10	1.10
FULL PIPE VELOCITY (m/s)		1.36	1.77
HGL GRADE (%)		0.19	0.57

WAE		13.00	
HYDRAULIC GRADE LINE		18.13	18.027
INVERT LEVEL		17.67	17.651
DESIGN SURFACE LEVEL		19.55	19.56
ROAD CHAINAGE		134.38	134.38
PIPE CHAINAGE		33.687	33.687

LINE C03

LINE C04

LINE C05

REV	DESCRIPTION	DG	NW	KM	MS	DATE
B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
AMENDMENT						
DES	DRN	CKD	APR	DATE		

J. WYNDHAM PRINCE
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WINTER PROPERTY GROUP

STATUS:

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NEWPARK PRECINCT 7, STAGE 7J DRAINAGE LONGITUDINAL SECTIONS SHEET 5

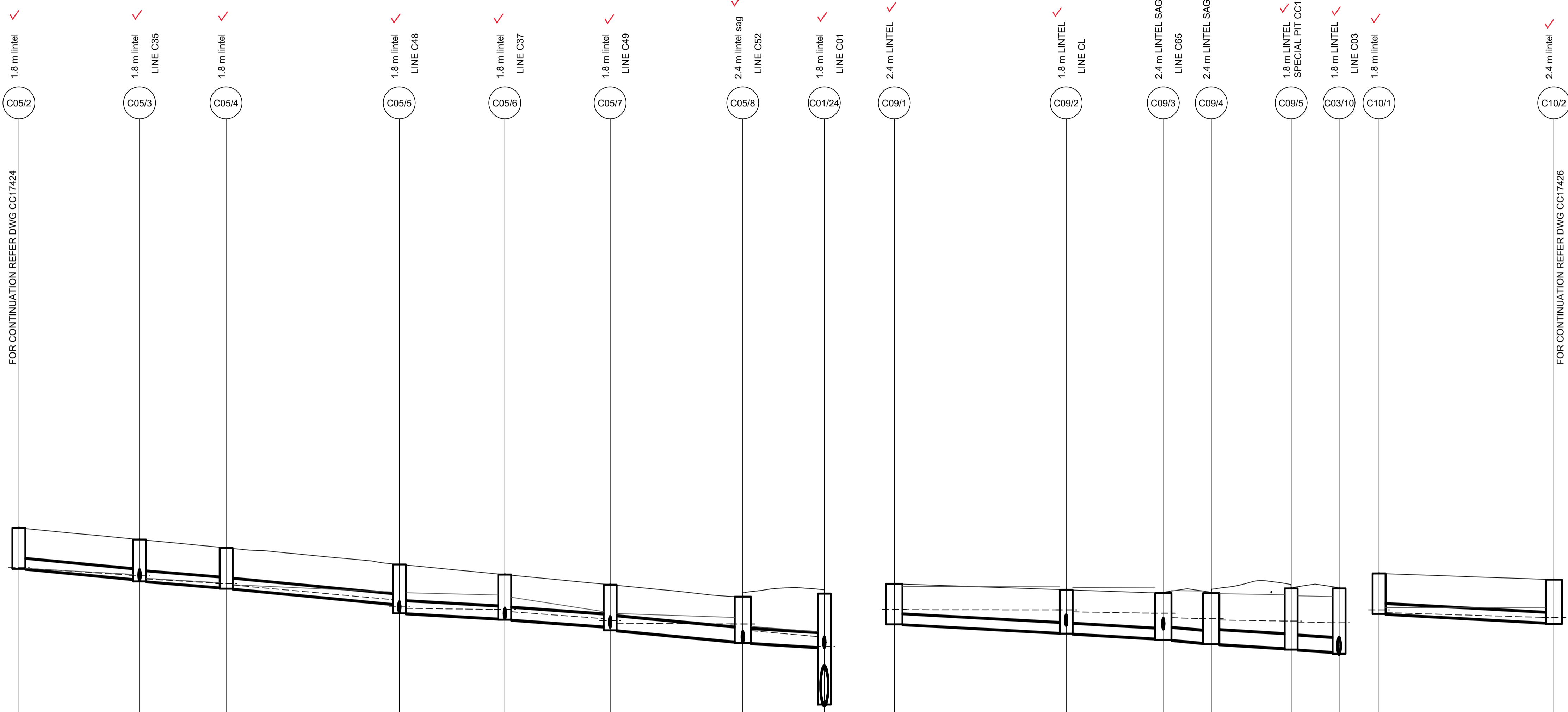
AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC17424

PROJECT No: **9985-12**
 SHEET No: **CC17424**

B

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NOTE:
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 - - - 5% AEP HGL



WAE	LINE C05									
DATUM (m)	11.00									
PEAK FLOW (L/s)	13	83	102	171	267	317	424			
PIPE SIZE (mm)	375 ✓	375 ✓	375 ✓	450 ✓	450 ✓	525 ✓	525 ✓			
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2			
PIPE GRADE (%)	1.7 1.9	1.4 1.6	1.8 1.8	1.0 1.0	1.3 1.4	1.7 1.7	1.0 1.2			
PIPE COVER MINIMUM	1.10	1.10	1.10	1.18	1.10	1.10	1.37			
FULL PIPE VELOCITY (m/s)	0.83	1.44	1.98	1.63	2.08	1.79	2.11			
HGL GRADE (%)	1.18	0.98	1.69	0.22	1.32	0.11	1.48			
HYDRAULIC GRADE LINE	18.947	18.947	18.727							
INVERT LEVEL	18.95	18.33	18.315	18.01	18.003	18.16	18.094	17.59	17.379	17.544
DESIGN SURFACE LEVEL	20.237	20.22	18.703	18.801	18.231	18.32	18.459	18.865	18.836	17.034
ROAD CHAINAGE	155.22	132.57	116.32	83.81	64.01	44.24	19.36	17.771	13.608	15.717
PIPE CHAINAGE	14.958	37.61	53.857	86.368	106.167	125.933	150.821	166.136	1383.17	17.771

WAE	LINE C09					LINE C10	
DATUM (m)	13.00					13.00	
PEAK FLOW (L/s)	42	109	232	264	262	42	
PIPE SIZE (mm)	375 ✓	375 ✓	450 ✓	525 ✓	525 ✓	375 ✓	
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	
PIPE GRADE (%)	1.0 1.0	1.0 1.0	1.3 1.1	1.0 1.1	1.0 1.6	1.0 1.0	
PIPE COVER MINIMUM	1.10	1.23	1.34	1.54	1.79	1.10	
FULL PIPE VELOCITY (m/s)	0.71	1.09	1.47	1.58	1.30	0.96	
HGL GRADE (%)	0.03	0.28	0.48	0.27	0.29	0.56	
HYDRAULIC GRADE LINE	19.188	19.159	19.087	18.828	18.763	19.059	18.876
INVERT LEVEL	18.619	18.30	18.296	18.12	18.094	18.721	18.742
DESIGN SURFACE LEVEL	20.139	20.12	19.913	18.795	18.034	17.671	18.705
ROAD CHAINAGE	421.89	389.63	371.41	371.41	191.92	191.84	477.12
PIPE CHAINAGE	0	32.263	389.63	50.479	59.479	74.462	83.462

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 Registered Certifier
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Land Development Certificates
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AMENDMENT	DES	DRN	CKD	APR	DATE
B					18/02/22
A					13/12/21

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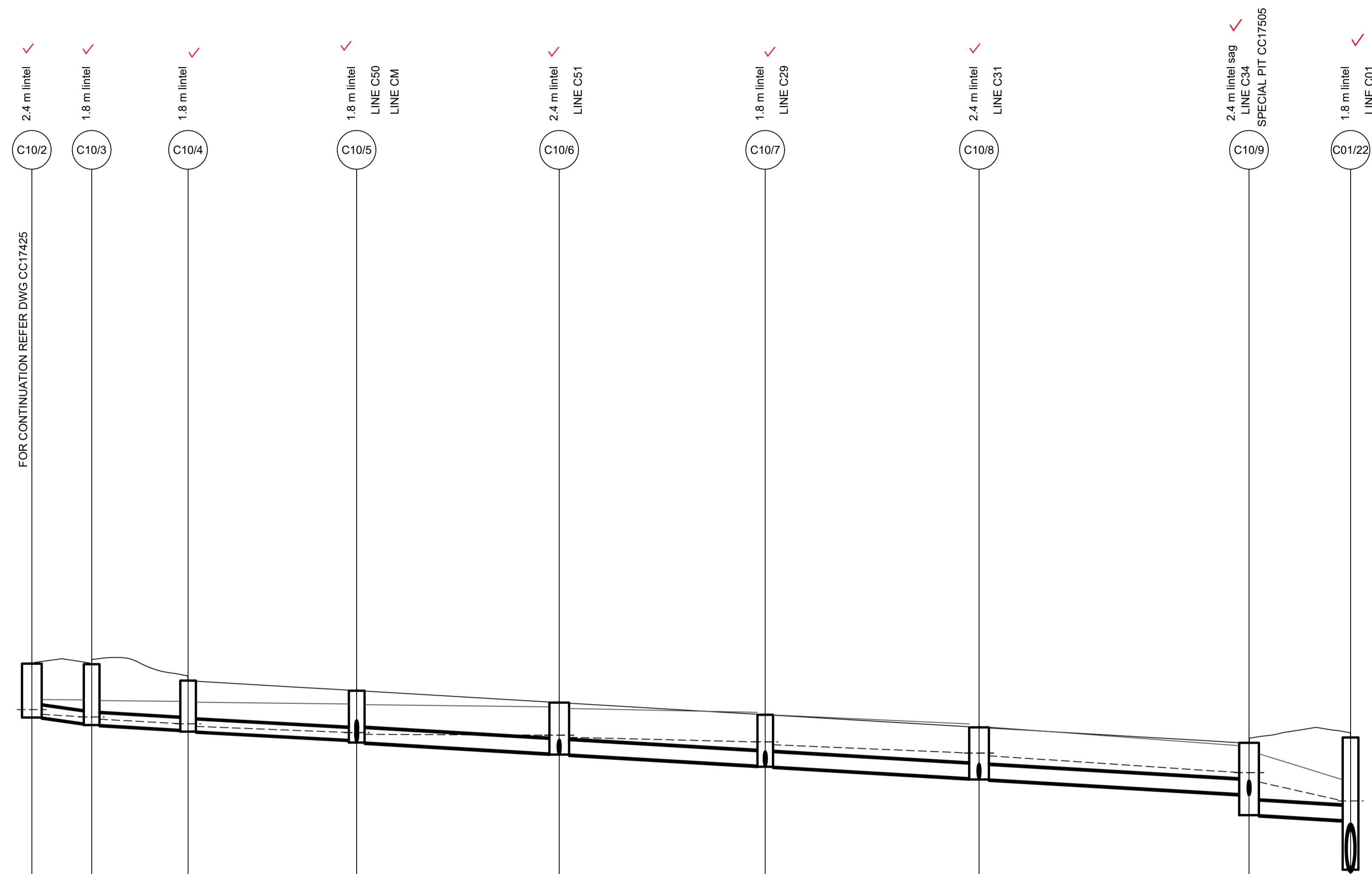
NEWPARK PRECINCT 7, STAGE 7J DRAINAGE LONGITUDINAL SECTIONS SHEET 6

PROJECT No: **9985-12**
 SHEET No: **CC17425**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC17425**

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NOTE:
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DATUM (m)	11.00									
PEAK FLOW (L/s)	90	101	107	176	226	274	339	447		
PIPE SIZE (mm)	375 ✓	375 ✓	375 ✓	450 ✓	450 ✓	450 ✓	450 ✓	450 ✓		
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2		
PIPE GRADE (%)	2.0 1.8	1.0 1.0	1.0 1.0	1.1 1.1	1.1 1.1	1.1 1.1	1.1 1.1	1.0 1.2		
PIPE COVER MINIMUM	1.33	1.31	1.13	1.10	1.10	1.10	1.10	1.94		
FULL PIPE VELOCITY (m/s)	1.33	1.48	1.58	1.66	1.70	1.82	2.16	2.82		
HGL GRADE (%)	0.91	0.92	0.73	0.08	0.45	0.77	1.24	3.73		

WAE										
HYDRAULIC GRADE LINE	18.876	18.876	18.73	18.646	18.576	18.439	18.354			
INVERT LEVEL	18.68	18.629	18.43	18.44	18.40	18.28	18.245	18.195	18.20	
DESIGN SURFACE LEVEL	20.296	20.296	20.281	20.281	20.281	19.771	19.771	19.46	19.44	
ROAD CHAINAGE	444.31	444.31	442.10	442.10	442.10	182.46	182.46	19.771	19.771	
PIPE CHAINAGE	32.806	444.31	442.075	442.075	442.075	57.008	182.46	19.771	19.771	

LINE C10

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B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

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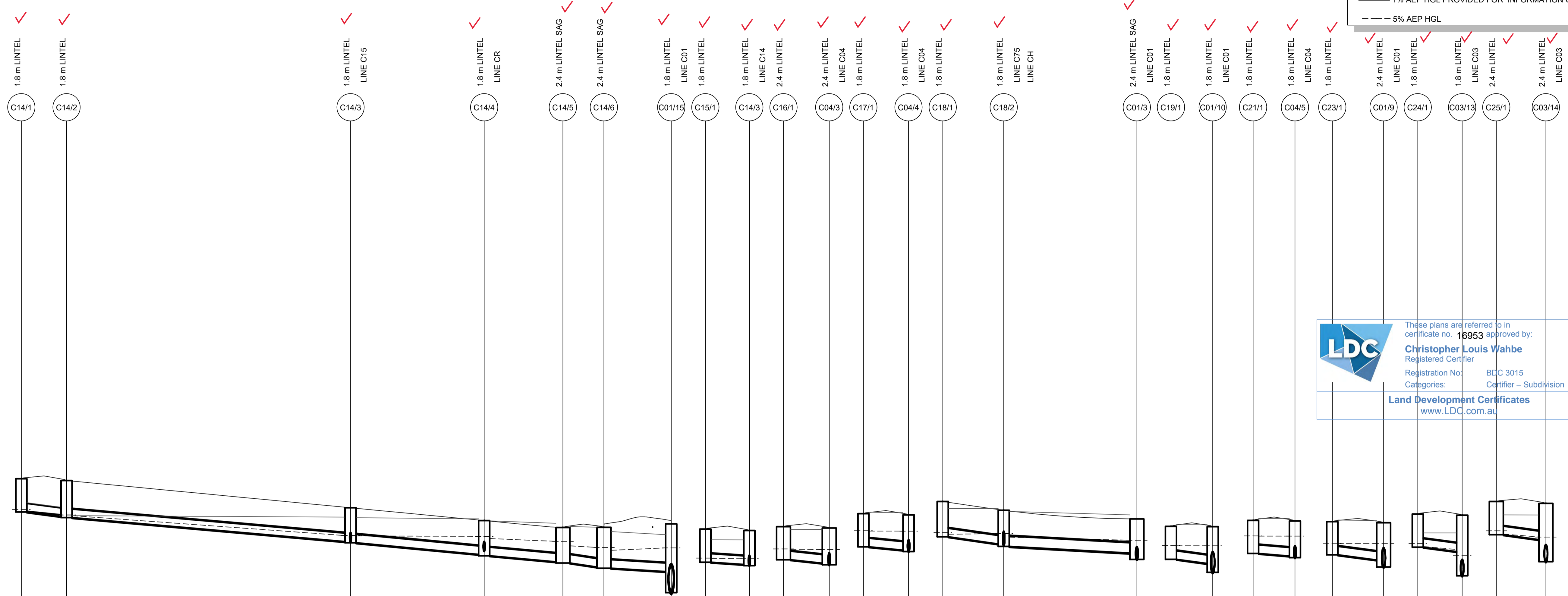
NEWPARK PRECINCT 7, STAGE 7J
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 7

PROJECT No:
9985-12
 SHEET No:
CC17426

AZIMUTH: M.G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC17426	B
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DATUM (m)
 PEAK FLOW (L/s)
 PIPE SIZE (mm)
 PIPE CLASS
 PIPE GRADE (%)
 PIPE COVER MINIMUM
 FULL PIPE VELOCITY (m/s)
 HGL GRADE (%)
 NOTE: 10% AEP VALUES SHOWN

WAE	LINE C14		LINE C15		LINE C16		LINE C17		LINE C18		LINE C19		LINE C21		LINE C23		LINE C24		LINE C25	
HYDRAULIC GRADE LINE	18.467	18.312	17.405	17.388	17.368	17.273	17.402	17.405	17.601	18.46	17.965	16.958	17.38	17.051	17.013	17.923	17.474	17.474	17.337	17.27
INVERT LEVEL	18.44	18.28	17.14	17.08	16.57	16.50	17.23	17.24	16.91	17.54	17.35	16.95	16.69	16.49	16.33	16.01	17.89	17.47	17.47	17.26
DESIGN SURFACE LEVEL	19.9	18.81	18.624	18.61	18.062	18.04	17.757	17.74	18.368	18.34	18.13	17.79	18.03	18.07	17.97	17.95	19.35	18.87	18.87	18.615
ROAD CHAINAGE	128.01	123.83	61.52	61.52	32.20	32.20	14.92	14.93	75.89	157.20	157.20	45.00	53.29	74.83	68.06	137.86	105.00	105.00	98.91	16.26
PIPE CHAINAGE	0	9.926	72.234	72.234	101.551	101.551	118.832	118.832	127.832	127.832	127.832	0	9.185	0	11.262	0	9.739	9.739	10.865	16.26

AMENDMENT	DES	DRN	CKD	APR	DATE	
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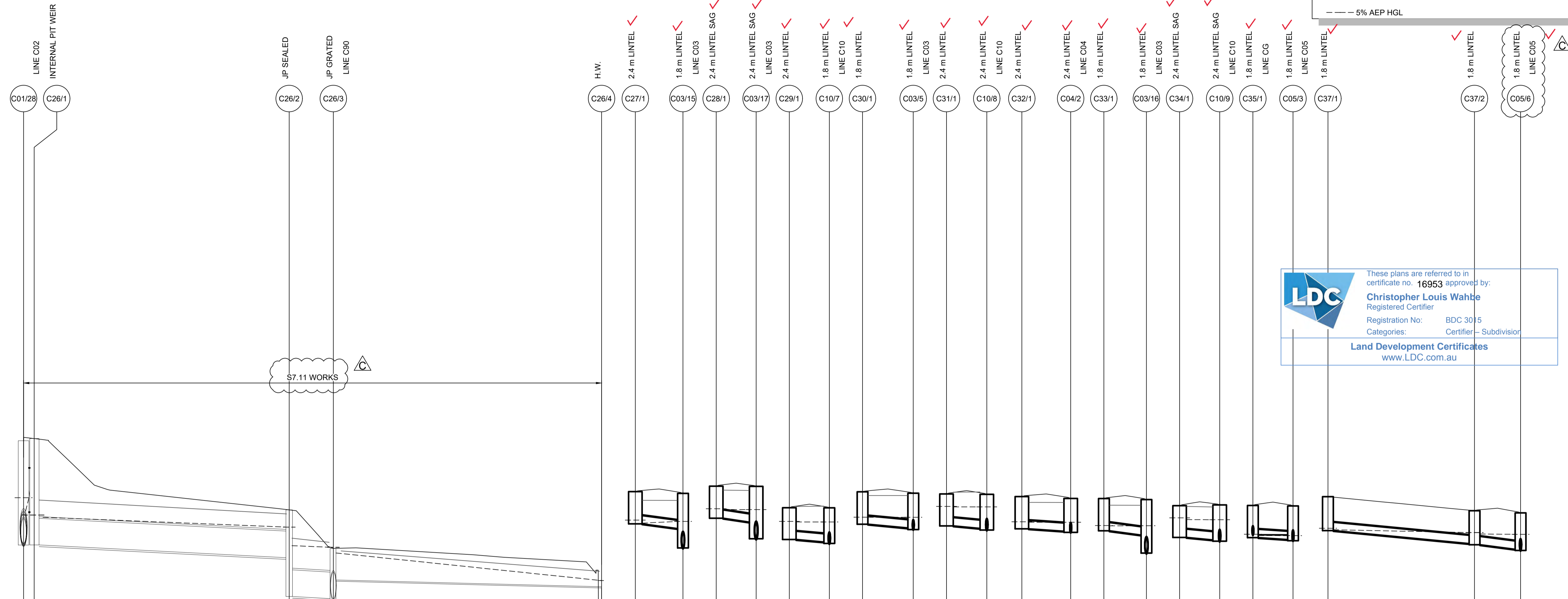
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CLIENT:
NEWPARK PRECINCT 7, STAGE 7J DRAINAGE LONGITUDINAL SECTIONS SHEET 8
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC17427

PROJECT No:
9985-12
 SHEET No:
CC17427
B

Plotfile: 28 March 2022 3:19:17 PM File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS17 - Precinct 7\9985-12-CC17428.dwg



LINE	PIPE SIZE (mm)	WEIR	PIPE GRADE (%)	PIPE COVER MINIMUM	FULL PIPE VELOCITY (m/s)	HGL GRADE (%)	NOTE: 10% AEP VALUES SHOWN
C01/28	4m		-0.0	0.90	0.00	27.21	
C26/1	1200	RRJ2	1.0	1.05	3.18	0.77	
C26/2	1200	RRJ2	1.0	1.05	1.17		
C26/3	1200	RRJ2	1.0	1.05	3.92		
C26/4	825	RRJ2	0.5	1.10	0.78		
C27/1	375	RRJ2	2.0	1.10	-0.72		
C03/15	375	RRJ2	2.0	1.10	0.04		
C28/1	375	RRJ2	1.3	1.10	0.03		
C03/17	375	RRJ2	1.5	1.10	0.01		
C29/1	375	RRJ2	1.3	1.10			
C10/7	375	RRJ2	1.5	1.10			
C30/1	375	RRJ2	1.3	1.10			
C03/5	375	RRJ2	1.3	1.10			
C31/1	375	RRJ2	1.0	1.10			
C10/8	375	RRJ2	1.0	1.10			
C32/1	375	RRJ2	2.0	1.10			
C04/2	375	RRJ2	1.3	1.10			
C33/1	375	RRJ2	2.0	1.10			
C03/16	375	RRJ2	1.3	1.10			
C34/1	375	RRJ2	1.3	1.10			
C10/9	375	RRJ2	1.0	1.10			
C35/1	375	RRJ2	1.0	1.10			
C05/3	375	RRJ2	1.8	1.10			
C37/1	375	RRJ2	2.0	1.10			
C37/2	375	RRJ2	1.8	1.10			
C05/6	375	RRJ2	2.0	1.10			

LINE	WAE	HYDRAULIC GRADE LINE	INVERT LEVEL	DESIGN SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
C01/28		15.171	13.037	17.747	1495.71	0
C26/1		14.289	14.52	17.845	1497.24	2.392
C26/2		13.007	12.464	14.623		59.99
C26/3		12.677	10.612	12.884		69.95
C26/4		11.43	10.273	11.098		130.539
C27/1		17.023	16.991	18.448		72.21
C03/15		17.101	16.776	17.57		10.763
C28/1		16.635	16.248	17.692		14.92
C03/17		16.496	16.07	17.683		15.58
C29/1		18.079	17.283	18.722		93.75
C10/7		18.076	17.18	18.67		93.024
C30/1		19.237	18.976	20.438		270.00
C03/5		19.237	18.804	20.374		277.09
C31/1		17.76	16.889	18.341		61.40
C10/8		17.674	16.786	18.33		67.86
C32/1		18.066	17.79	19.18		140.77
C04/2		18.065	17.69	18.83		149.49
C33/1		17.97	16.677	18.133		49.49
C03/16		16.902	16.69	18.10		46.15
C34/1		17.177	16.27	17.79		17.34
C10/9		16.927	16.207	17.85		18.19
C35/1		18.465	18.37	19.80		133.61
C05/3		18.32	18.291	18.291		132.57
C37/1		17.725	17.687	19.221		102.31
C37/2		17.533	17.11	18.585		69.22
C05/6		17.518	16.86	18.56		64.01

LINE C26

LINE C27

LINE C28

LINE C29

LINE C30

LINE C31

LINE C32

LINE C33

LINE C34

LINE C35

LINE C37

REV	DESCRIPTION	DATE
C	NOTE ADDED. PIT NUMBERING ON LINE C37 AMENDED	28/03/22
B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	18/02/22
A	ISSUE FOR CAA APPROVAL	13/12/21

J. WYNDHAM PRINCE
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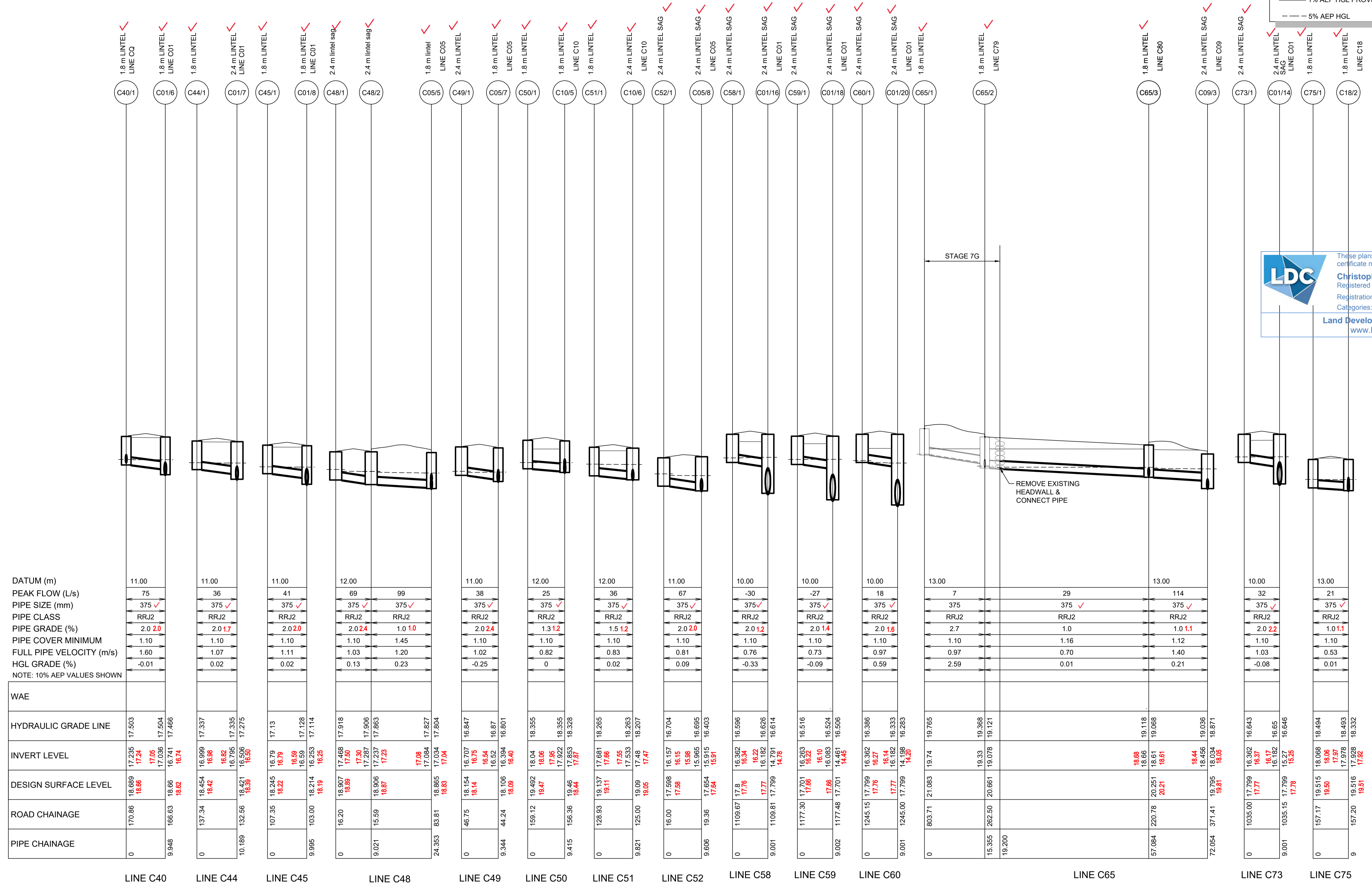
CLIENT: WINTEN PROPERTY GROUP
STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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NEWPARK
PRECINCT 7, STAGE 7J
DRAINAGE LONGITUDINAL SECTIONS
SHEET 9
AZIMUTH: M.G.A.94
DATUM: A.H.D.
ORIGIN: SSM 1112
PLAN No: 9985-12-CC17428

PROJECT No: 9985-12
SHEET No: CC17428
C

Plotted: 18 February 2022 10:15:05 AM File Name: J:\9985\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\17 - Precinct 7\9985-12-CC17429.dwg

NOTE:
 — 1% AEP HGL PROVIDED FOR INFORMATION ONLY.
 - - - 5% AEP HGL



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 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision
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DATUM (m)	11.00
PEAK FLOW (L/s)	75
PIPE SIZE (mm)	375 ✓
PIPE CLASS	RRJ2
PIPE GRADE (%)	2.0 2.0
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	1.60
HGL GRADE (%)	-0.01

WAE	
HYDRAULIC GRADE LINE	
INVERT LEVEL	
DESIGN SURFACE LEVEL	
ROAD CHAINAGE	
PIPE CHAINAGE	

LINE C40 LINE C44 LINE C45 LINE C48 LINE C49 LINE C50 LINE C51 LINE C52 LINE C58 LINE C59 LINE C60 LINE C65 LINE C73 LINE C75

B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

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CLIENT:

WINTREN PROPERTY GROUP

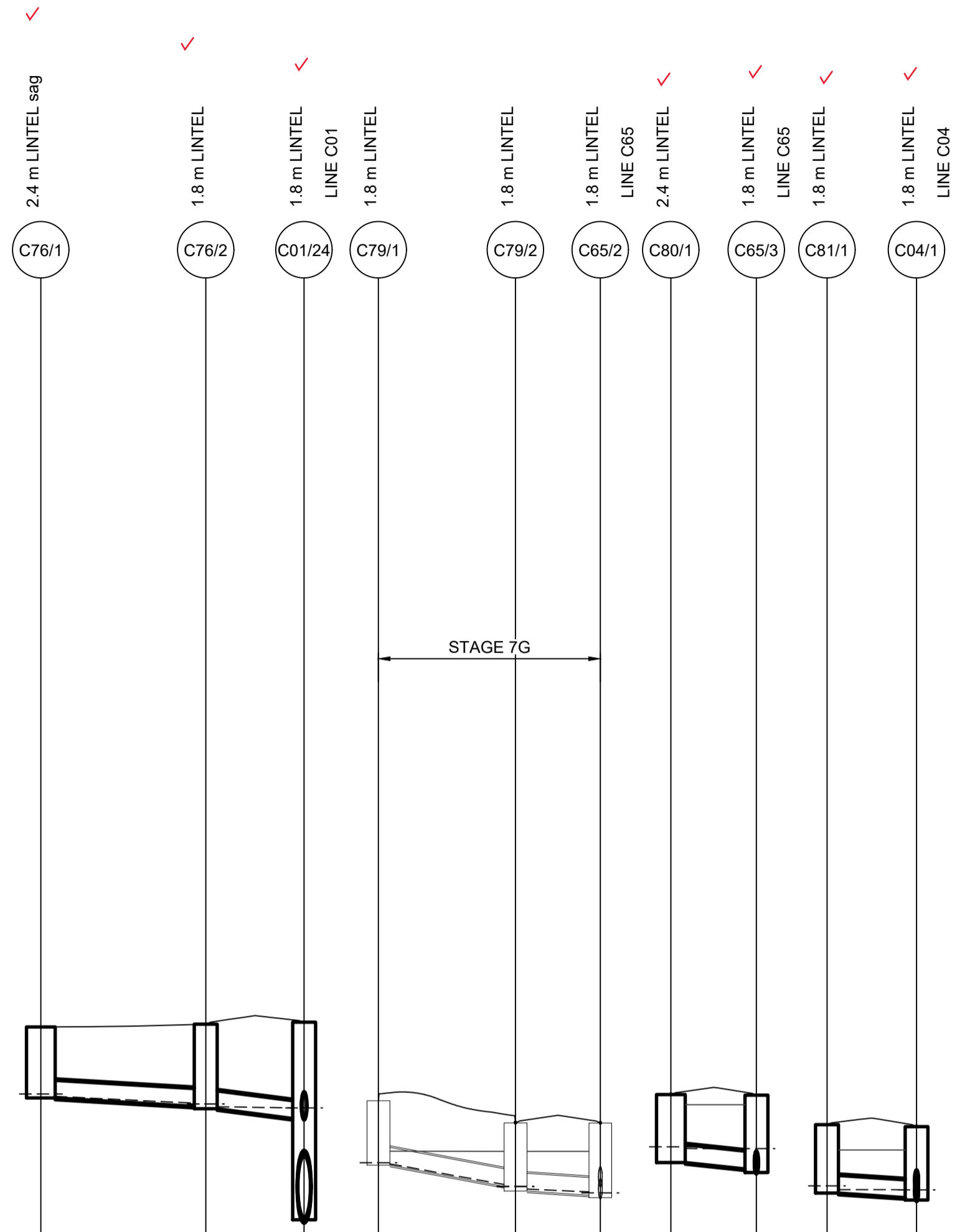
STATUS:
ISSUE FOR CONSTRUCTION APPROVAL
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PROJECT No:
9985-12
 SHEET No:
CC17429
 PLAN No: **9985-12-CC17429**

NEWPARK PRECINCT 7, STAGE 7J DRAINAGE LONGITUDINAL SECTIONS SHEET 10	AZIMUTH: M.G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC17429	B
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Plotted: 18 February 2022 10:15:25 AM File Name: J:\9985\DC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\17 - Precinct 7\9985-12-CC17430.dwg

NOTE:
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 - - - - 5% AEP HGL



	LINE C76		LINE C79		LINE C80		LINE C81	
DATUM (m)	9.00		14.00		13.00		13.00	
PEAK FLOW (L/s)	13		8		54		25	
PIPE SIZE (mm)	375 ✓		375		375 ✓		375 ✓	
PIPE CLASS	RRJ2		RRJ2		RRJ2		RRJ2	
PIPE GRADE (%)	1.0 1.2		3.1		1.5 1.2		1.0 1.0	
PIPE COVER MINIMUM	1.10		1.45		1.10		1.10	
FULL PIPE VELOCITY (m/s)	0.80		1.19		0.97		0.65	
HGL GRADE (%)	0.82		0.27		0.02		0.04	
NOTE: 10% AEP VALUES SHOWN								
WAE								
HYDRAULIC GRADE LINE	16.226		19.793		19.12		18.247	
INVERT LEVEL	16.191 16.16	15.95 16.016 15.986 16.008	19.768 19.313 19.218 19.257	19.354 19.118 19.128 19.199	18.823 18.83 18.72 18.687 18.61 18.61	19.118 19.118 18.61 18.61	18.172 18.17 18.09 18.077 18.243 18.13	18.13
DESIGN SURFACE LEVEL	17.7 17.67	17.761 17.73	20.665 20.665	20.661 20.661	20.263 20.23	20.251 20.21	19.626 19.58	19.585 19.55
ROAD CHAINAGE	1360.37	1377.88	775.67	21.132	221.96	220.78	171.15	168.07
PIPE CHAINAGE	0	17.51	0	14.96	0	9.078	0	9.513

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B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

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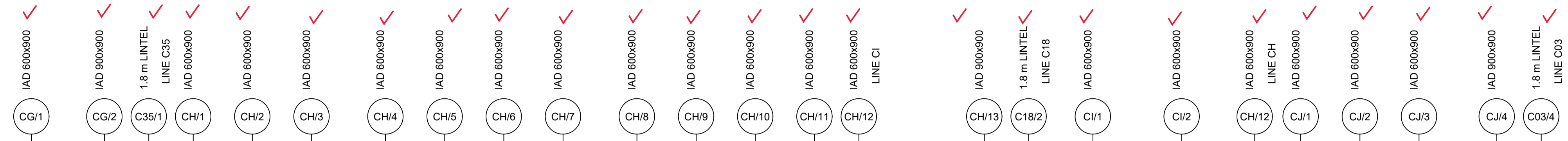
CLIENT:
WINTAN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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NEWPARK PRECINCT 7, STAGE 7J
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 11

PROJECT No: **9985-12**
 SHEET No: **CC17430**

NOTE:
--- 5% AEP HGL



DATUM (m)
PEAK FLOW (L/s)
PIPE SIZE (mm)
PIPE CLASS
PIPE GRADE (%)
PIPE COVER MINIMUM
FULL PIPE VELOCITY (m/s)
HGL GRADE (%)
NOTE: 5% AEP VALUES SHOWN

WAE	CG	CH	CI	CJ
HYDRAULIC GRADE LINE	19.572	20.712	20.722	21.183
INVERT LEVEL	19.475 19.46	20.261 20.24	20.44 20.45	20.999 20.98
DESIGN SURFACE LEVEL	20.23 20.25	21.015 20.99	21.216 21.22	21.499 21.46
ROAD CHAINAGE				
PIPE CHAINAGE	0	0	0	0

CG	CH	CI	CJ
13.00	13.00	14.00	14.00
13	11	23	21
150 ✓	150 ✓	150 ✓	150 ✓
uPVC	uPVC	uPVC	uPVC
1.0 0.9	1.0 0.9	1.7 2.0	1.5 1.7
0.60	0.60	0.60	0.60
0.86	1.22	1.43	1.21
1.07	1.17	2.84	1.87
19.572	20.712	20.722	21.183
19.475 19.46	20.261 20.24	20.44 20.45	20.999 20.98
20.23 20.25	21.015 20.99	21.216 21.22	21.499 21.46
135.21			
16.891	0	0	0

CH	CI	CJ
13.00	14.00	14.00
11	23	21
150 ✓	150 ✓	150 ✓
uPVC	uPVC	uPVC
1.0 0.9	1.7 2.0	1.5 1.7
0.60	0.60	0.60
1.22	1.43	1.21
1.17	2.84	1.87
20.712	20.722	21.183
20.261 20.24	20.44 20.45	20.999 20.98
21.015 20.99	21.216 21.22	21.499 21.46
0	0	0

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REV	DESCRIPTION	DATE
B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	18/02/22
A	ISSUE FOR CAA APPROVAL	13/12/21

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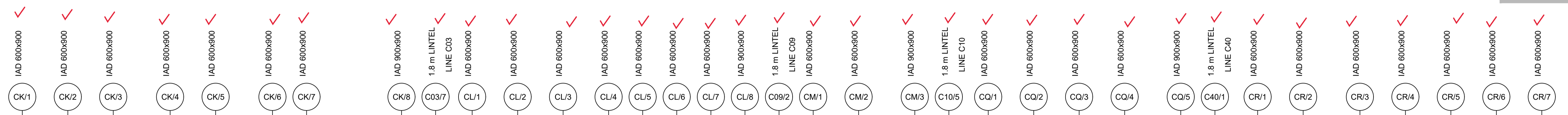
CLIENT:
WINTEN PROPERTY GROUP

STATUS:
ISSUE FOR CONSTRUCTION APPROVAL
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NEWPARK PRECINCT 7, STAGE 7J DRAINAGE LONGITUDINAL SECTIONS SHEET 12
PROJECT No: **9985-12**
SHEET No: **CC17431**
AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC17431**

AMENDMENT
 DES | DRN | CKD | APR | DATE | B |

NOTE:
--- 5% AEP HGL



DATUM (m)	13.00
PEAK FLOW (L/s)	12
PIPE SIZE (mm)	150
PIPE CLASS	uPVC
PIPE GRADE (%)	1.00.9
PIPE COVER MINIMUM	0.60
FULL PIPE VELOCITY (m/s)	0.66
HGL GRADE (%)	0.32

WAE	
HYDRAULIC GRADE LINE	20.824
INVERT LEVEL	20.514
DESIGN SURFACE LEVEL	21.238
ROAD CHAINAGE	
PIPE CHAINAGE	0

LINE CK

DATUM (m)	13.00
PEAK FLOW (L/s)	12
PIPE SIZE (mm)	150
PIPE CLASS	uPVC
PIPE GRADE (%)	1.4.1.8
PIPE COVER MINIMUM	0.60
FULL PIPE VELOCITY (m/s)	0.80
HGL GRADE (%)	0.33

WAE	
HYDRAULIC GRADE LINE	20.423
INVERT LEVEL	20.351
DESIGN SURFACE LEVEL	21.118
ROAD CHAINAGE	
PIPE CHAINAGE	0

LINE CL

DATUM (m)	13.00
PEAK FLOW (L/s)	13
PIPE SIZE (mm)	150
PIPE CLASS	uPVC
PIPE GRADE (%)	1.9.2.1
PIPE COVER MINIMUM	0.60
FULL PIPE VELOCITY (m/s)	0.82
HGL GRADE (%)	0.54

WAE	
HYDRAULIC GRADE LINE	19.021
INVERT LEVEL	19.482
DESIGN SURFACE LEVEL	20.244
ROAD CHAINAGE	
PIPE CHAINAGE	0

LINE CM

DATUM (m)	13.00
PEAK FLOW (L/s)	17
PIPE SIZE (mm)	150
PIPE CLASS	uPVC
PIPE GRADE (%)	3.4.3.4
PIPE COVER MINIMUM	0.60
FULL PIPE VELOCITY (m/s)	1.28
HGL GRADE (%)	2.99

WAE	
HYDRAULIC GRADE LINE	19.824
INVERT LEVEL	19.79
DESIGN SURFACE LEVEL	20.558
ROAD CHAINAGE	
PIPE CHAINAGE	0

LINE CQ

DATUM (m)	12.00
PEAK FLOW (L/s)	11
PIPE SIZE (mm)	150
PIPE CLASS	uPVC
PIPE GRADE (%)	1.3.1.5
PIPE COVER MINIMUM	0.60
FULL PIPE VELOCITY (m/s)	0.77
HGL GRADE (%)	0.29

WAE	
HYDRAULIC GRADE LINE	19.288
INVERT LEVEL	19.114
DESIGN SURFACE LEVEL	19.878
ROAD CHAINAGE	
PIPE CHAINAGE	0

LINE CR

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FOR CONTINUATION REFER DWG CC17433

Plotfile: 21 February 2022 1:47:50 PM File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCT\SI17 - Precinct 7\9985-12-CC17432.dwg

B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

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CLIENT:

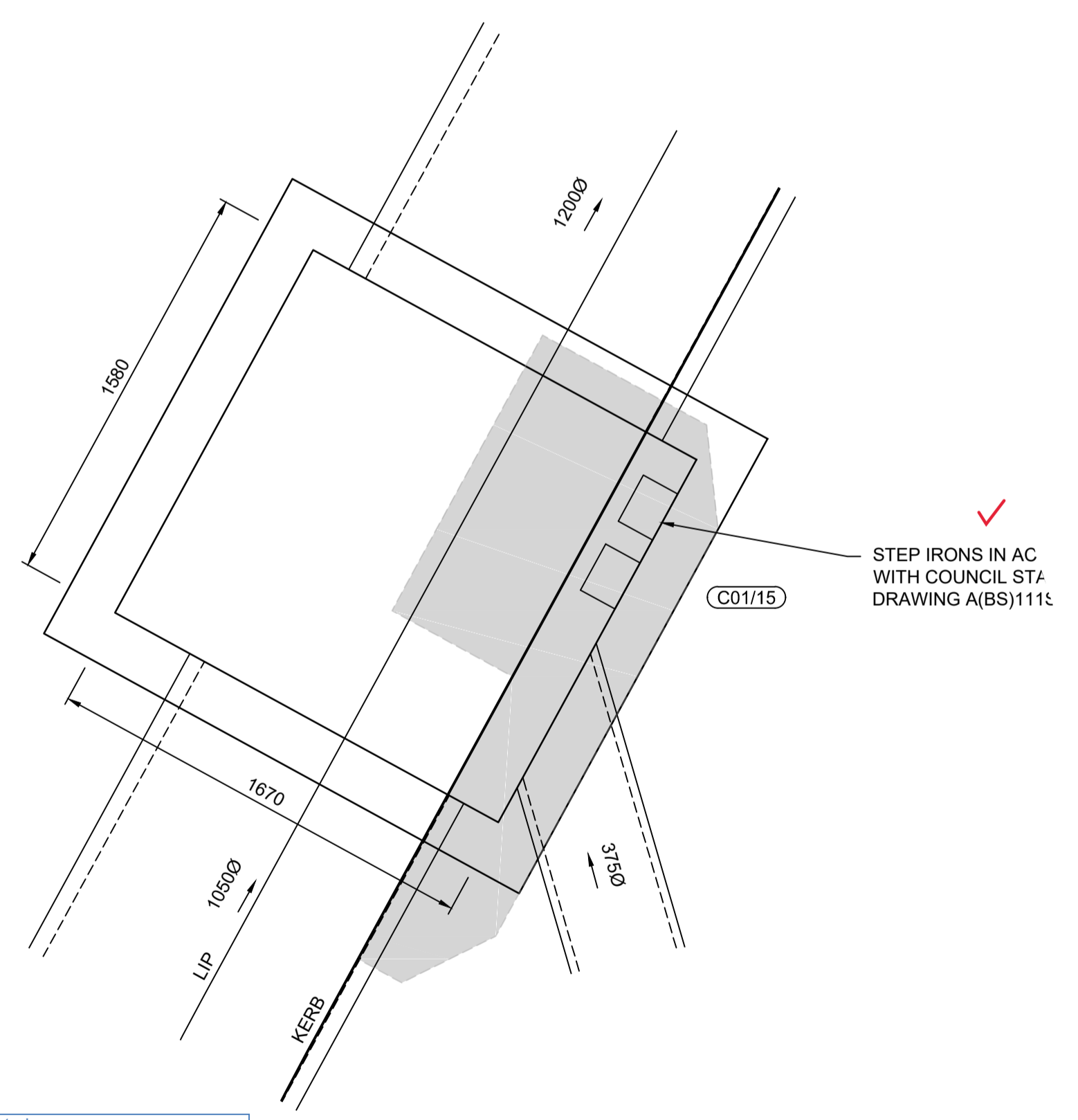
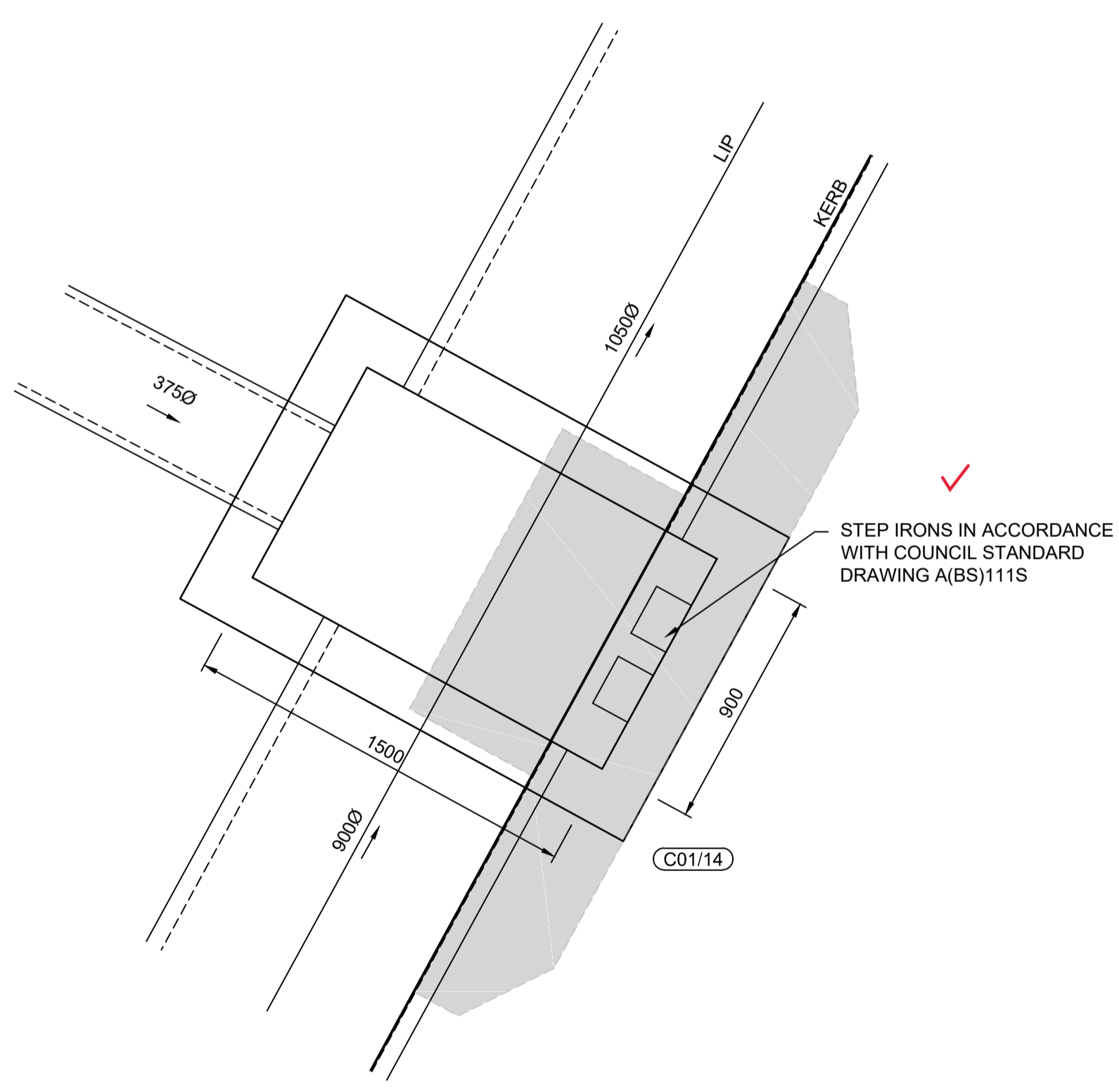
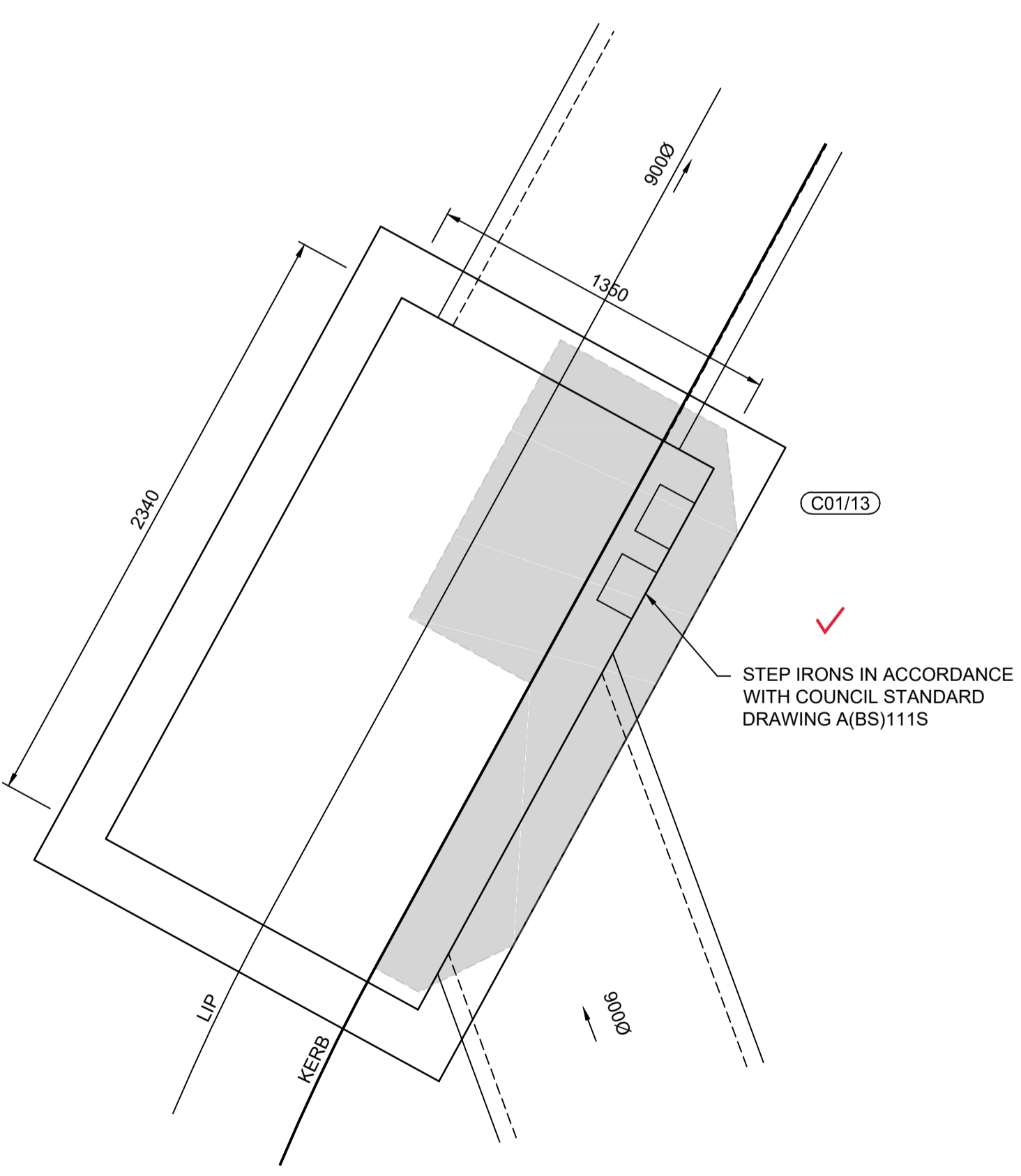
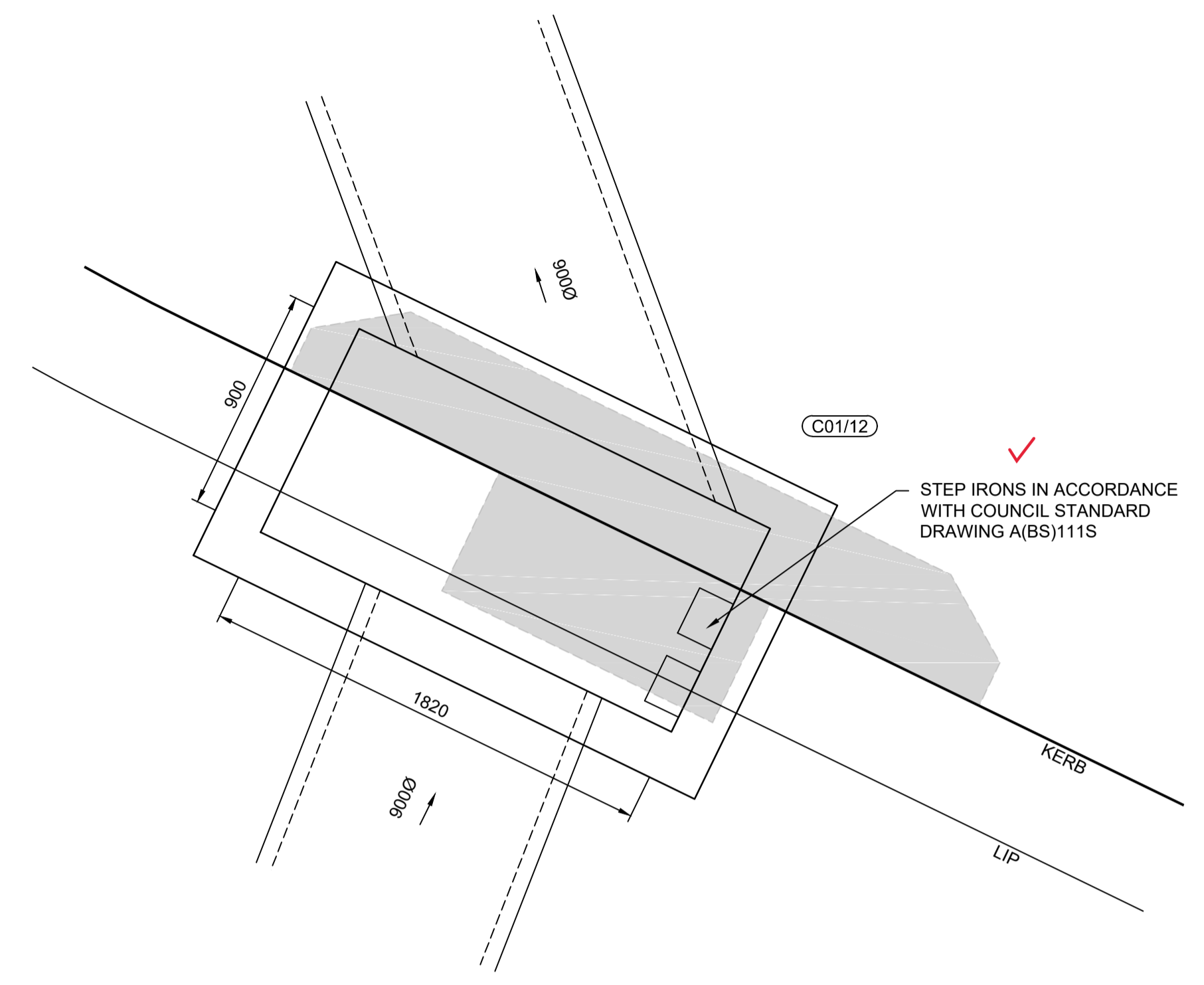
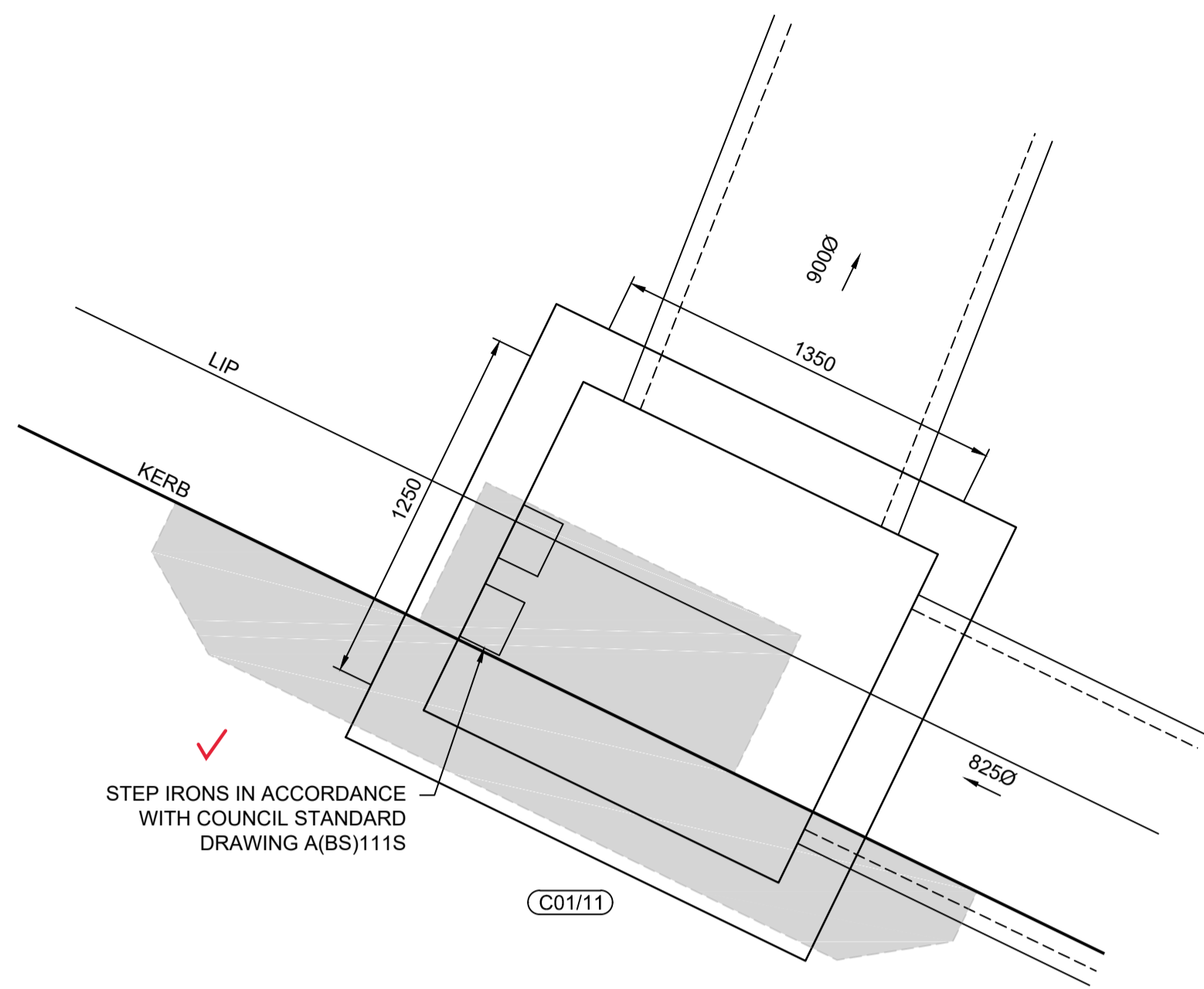
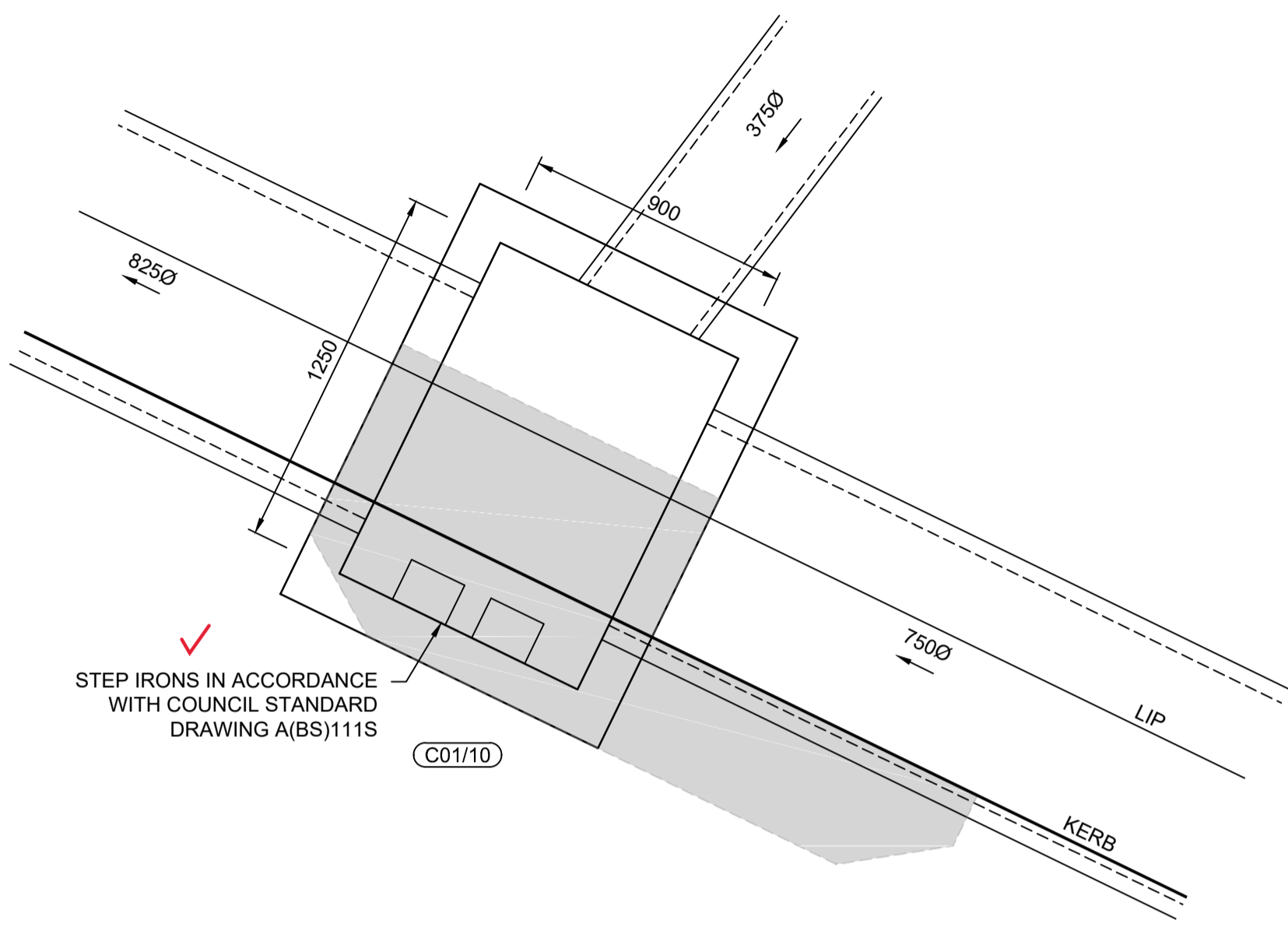
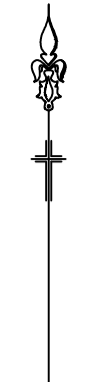
WINTAN PROPERTY GROUP

STATUS:
ISSUE FOR CONSTRUCTION APPROVAL
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NEWPARK PRECINCT 7, STAGE 7J DRAINAGE LONGITUDINAL SECTIONS SHEET 13

PROJECT No: **9985-12**
 SHEET No: **CC17432**

AZIMUTH: M.G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC17432	B
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AMENDMENT	DES	DRN	CKD	APR	DATE
B	DG	NW	KM	MS	18/02/22
A	DG	NW	KM	MS	13/12/21

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CLIENT:  **WINTAN PROPERTY GROUP**

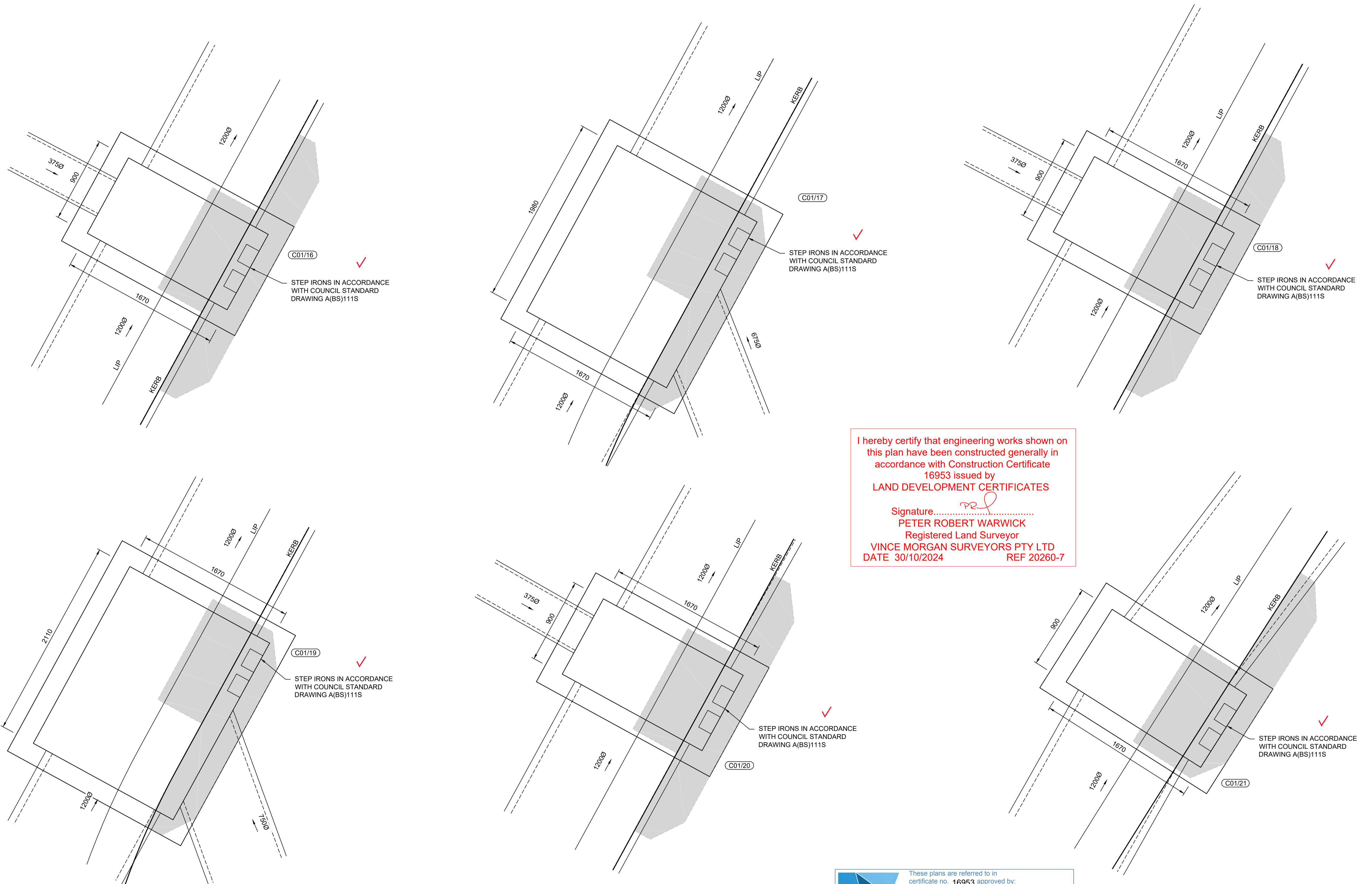
STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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NEWPARK
PRECINCT 7, STAGE 7J
 SPECIAL PIT DETAILS
 SHEET 1

PROJECT No: **9985-12**
 SHEET No: **CC17500**
 PLAN No: **9985-12-CC17500**

B

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I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16953 issued by LAND DEVELOPMENT CERTIFICATES

Signature.....*PR*.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

LDC These plans are referred to in certificate no. **16953** approved by:
Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision
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DES	DRN	CKD	APR	DATE
DG	NW	KM	MS	18/02/22
DG	NW	KM	MS	13/12/21
AMENDMENT				

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

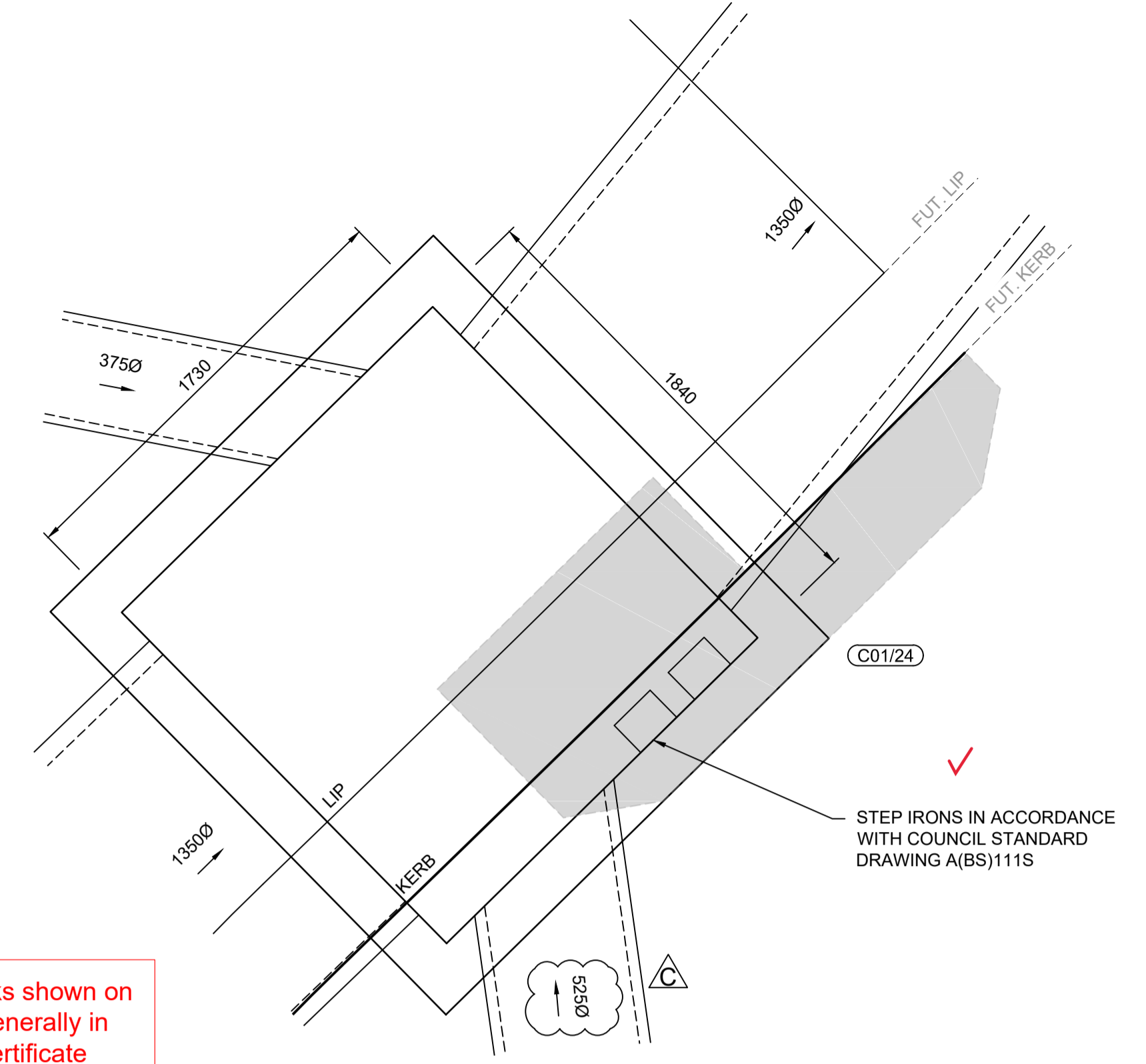
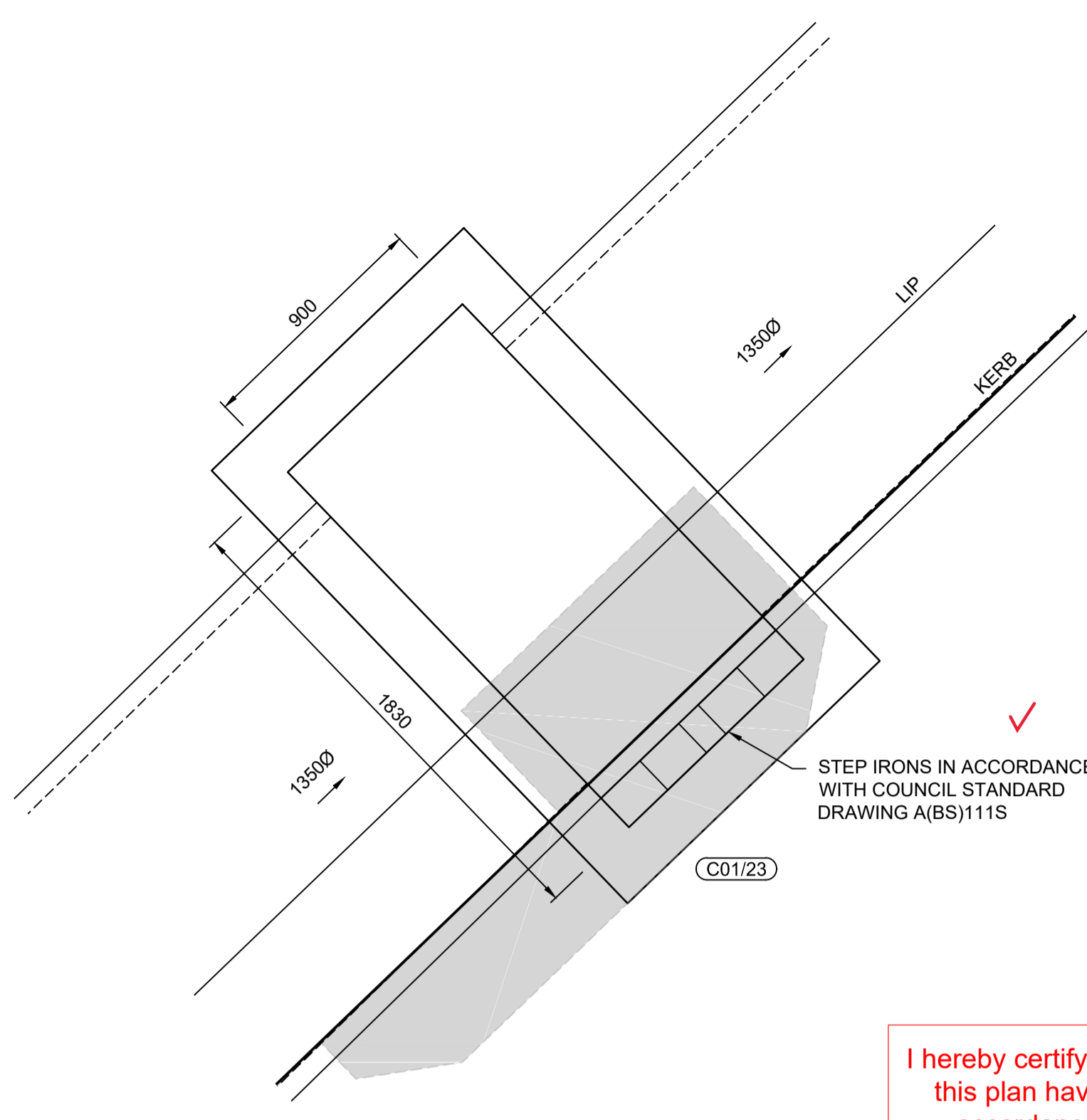
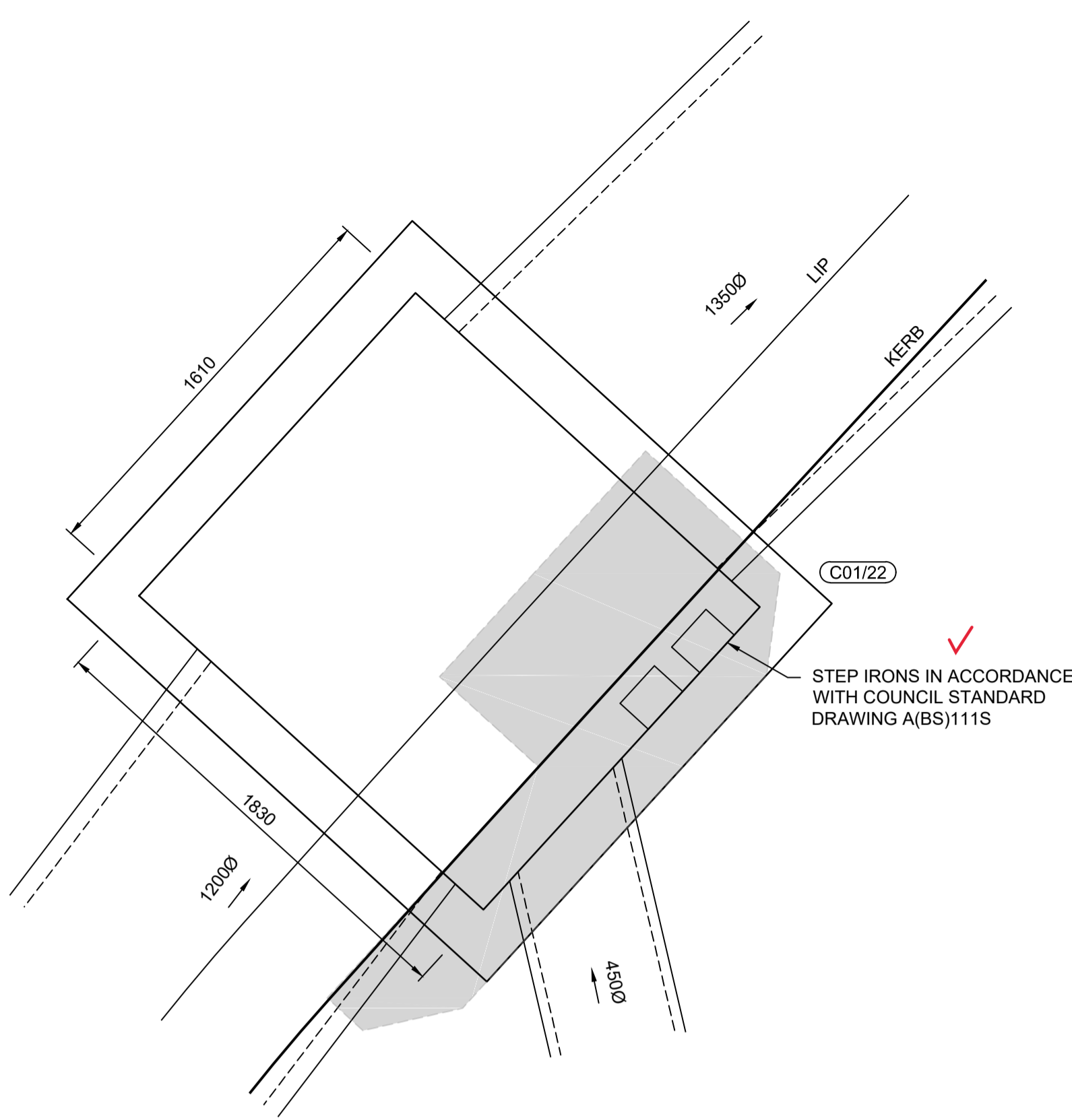
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK PRECINCT 7, STAGE 7J
 SPECIAL PIT DETAILS
 SHEET 2

PROJECT No: **9985-12**
 SHEET No: **CC17501**

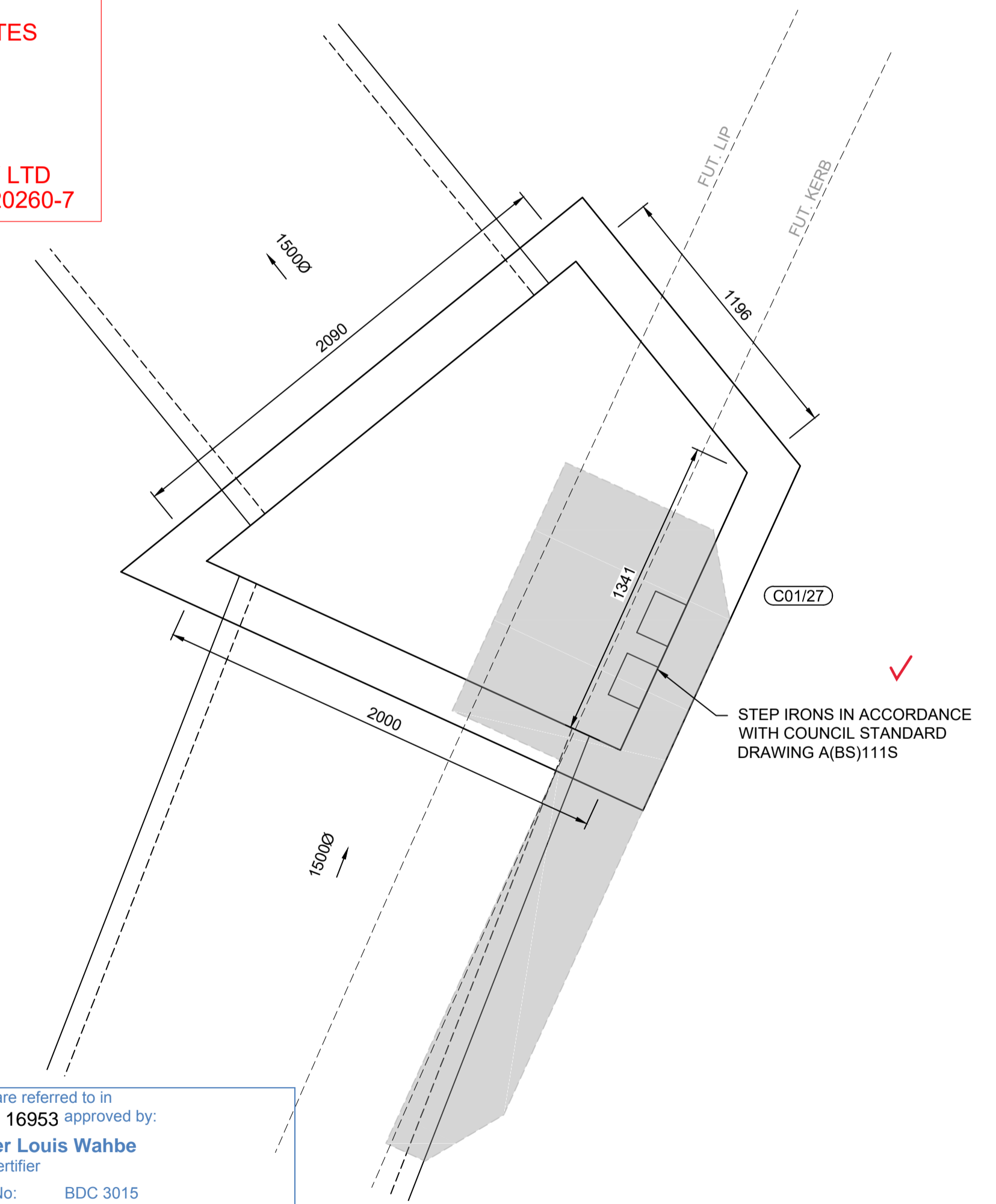
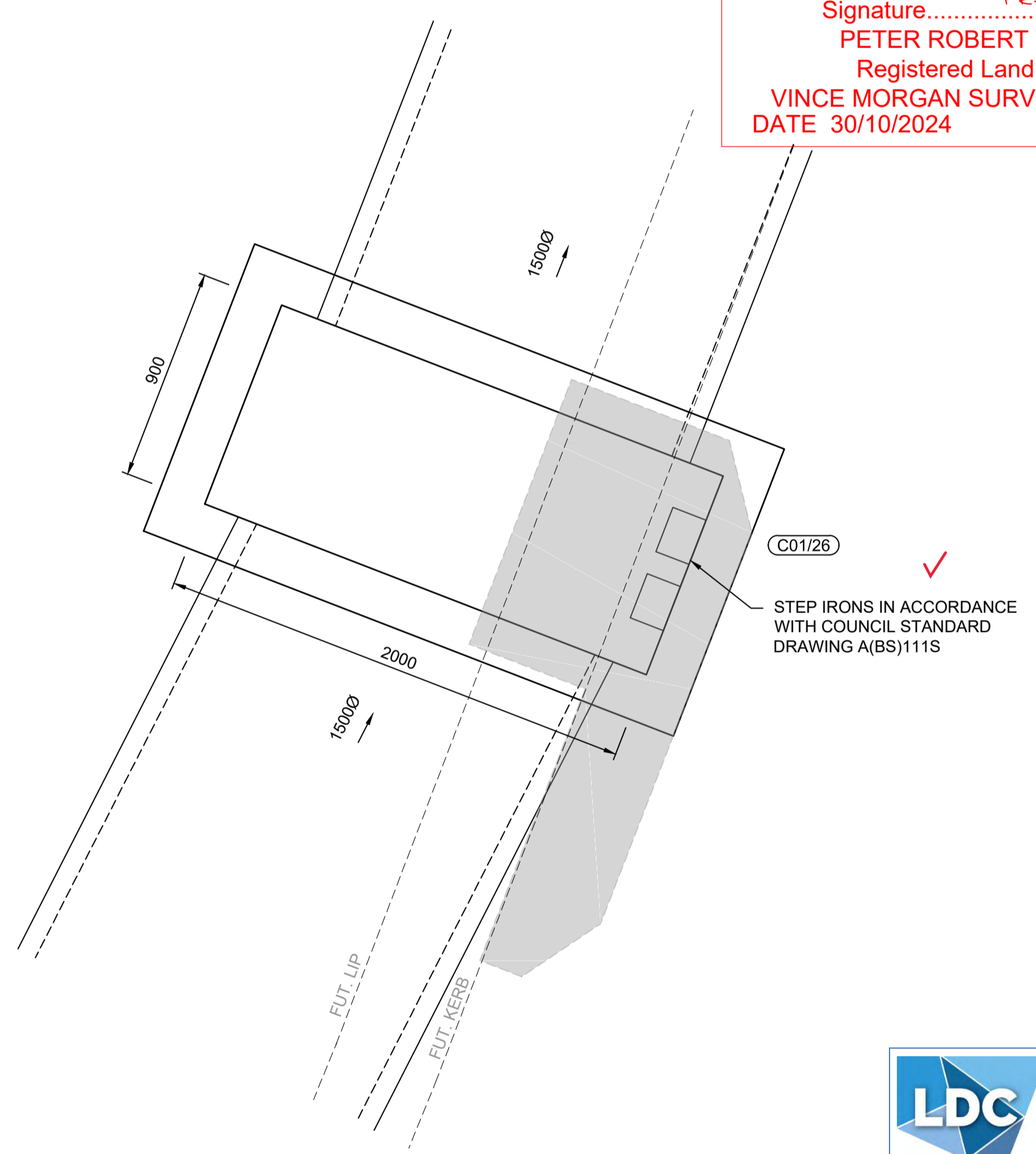
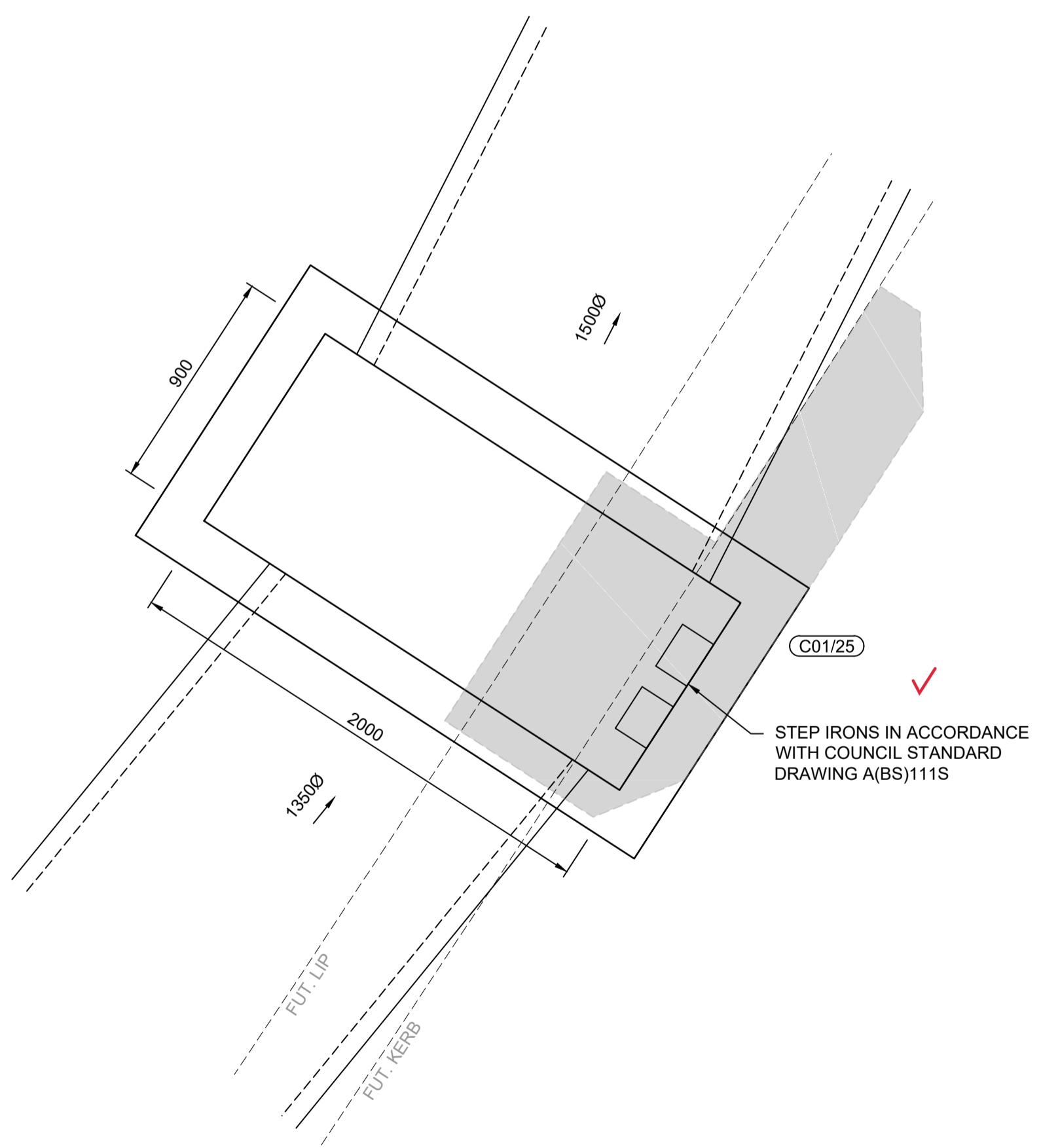
PLAN No: **9985-12-CC17501**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16953 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7



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 Registration No: BDC 3015
 Categories: Certifier - Subdivision



Plotfile: 28 March 2022 3:19:34 PM File Name: J:\9985\DOC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\17 - Precinct 7\9985-12-CC17502.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	DG	KE	MS	28/03/22
B	DG	NW	KM	MS	18/02/22
A	DG	NW	KM	MS	13/12/21

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 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK PRECINCT 7, STAGE 7J
 SPECIAL PIT DETAILS
 SHEET 3

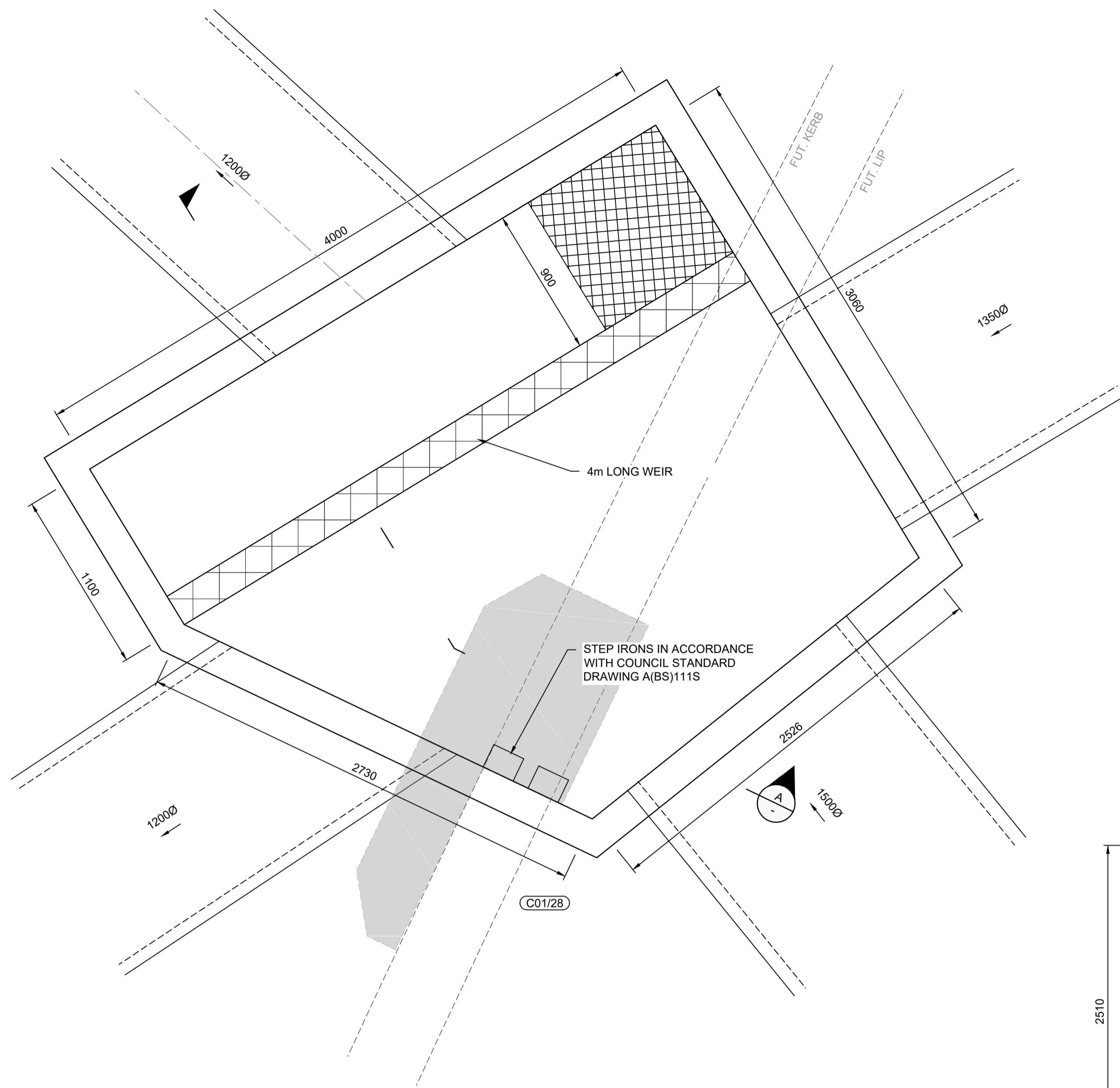
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 SHEET No: **CC17502**

PLAN No: **9985-12-CC17502**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112

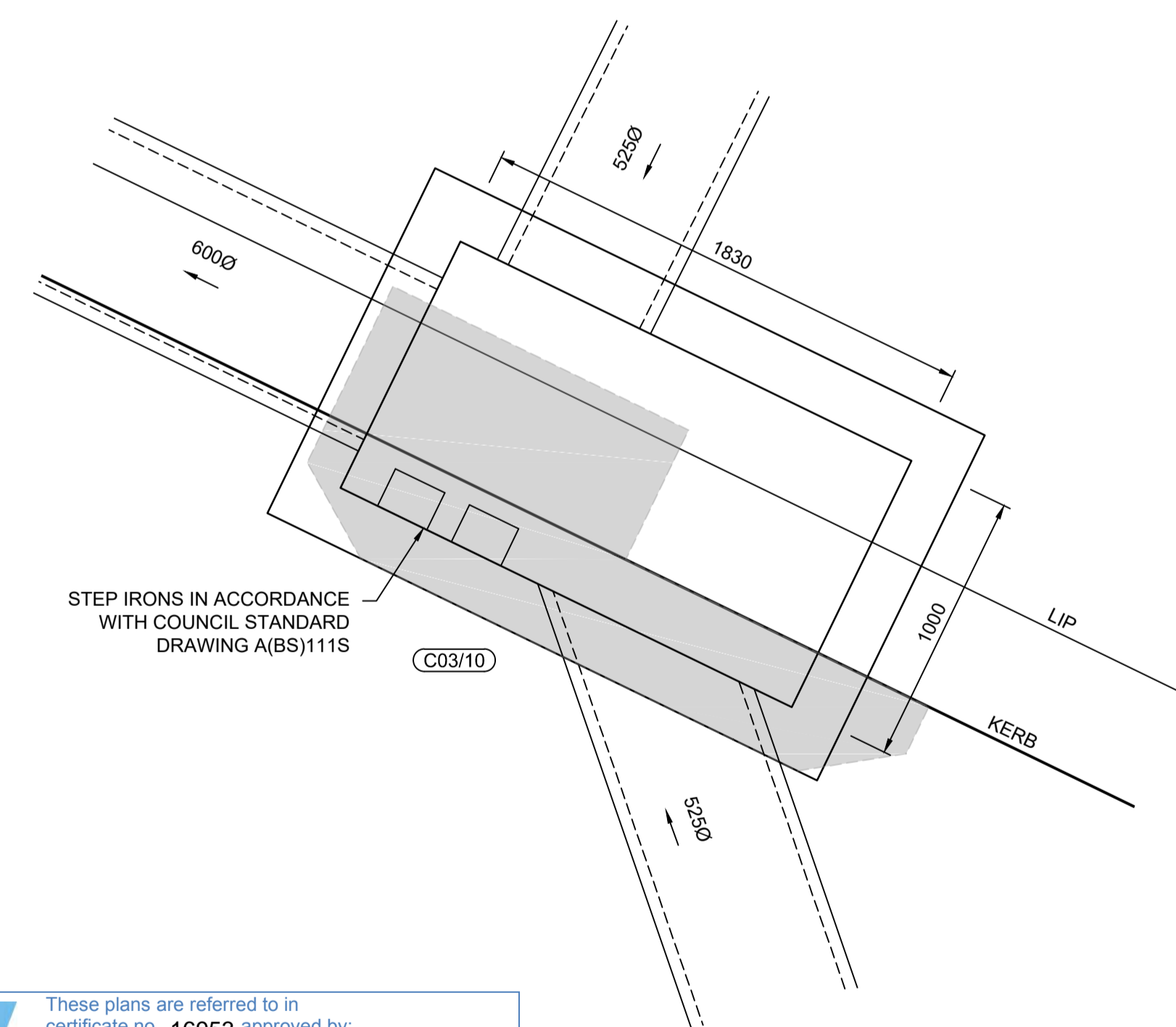
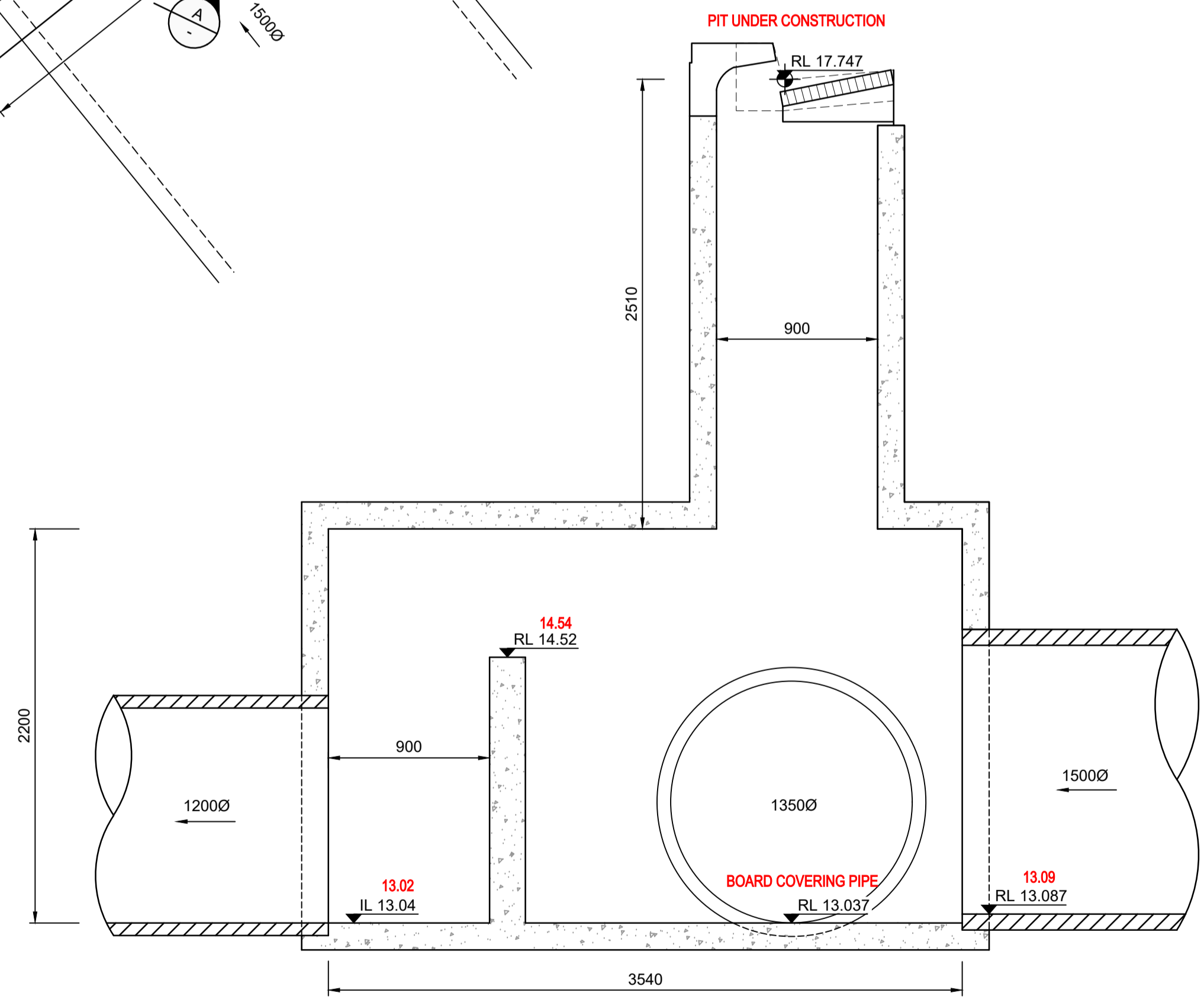
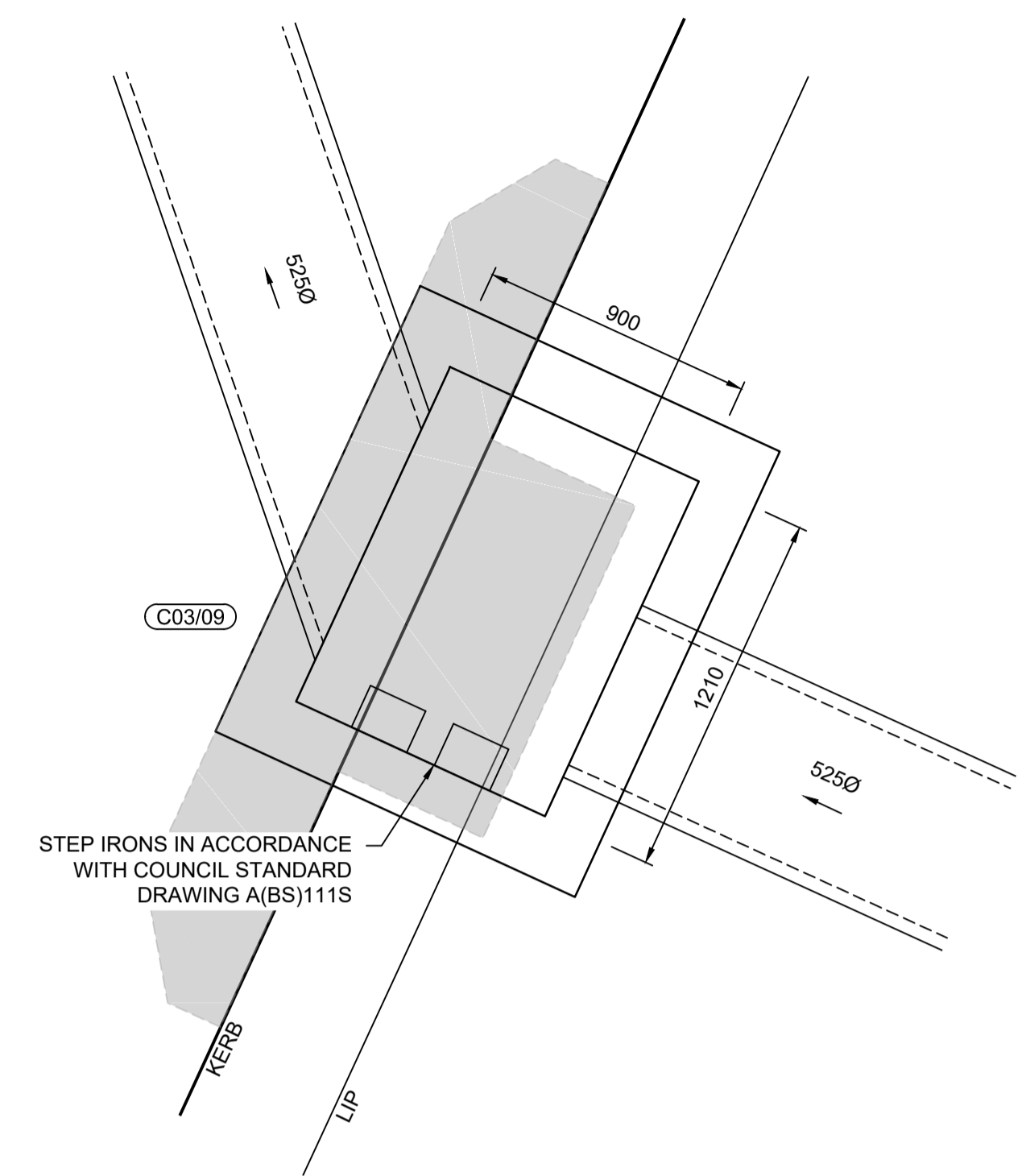
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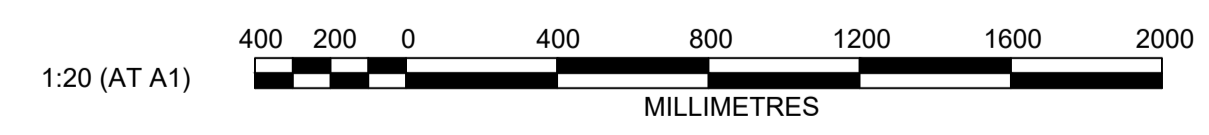


I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16953 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7



LDC These plans are referred to in certificate no. 16953 approved by:
Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision
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AMENDMENT	DES	DRN	CKD	APR	DATE
B	DG	NW	KM	MS	18/02/22
A	DG	NW	KM	MS	13/12/21

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:

WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

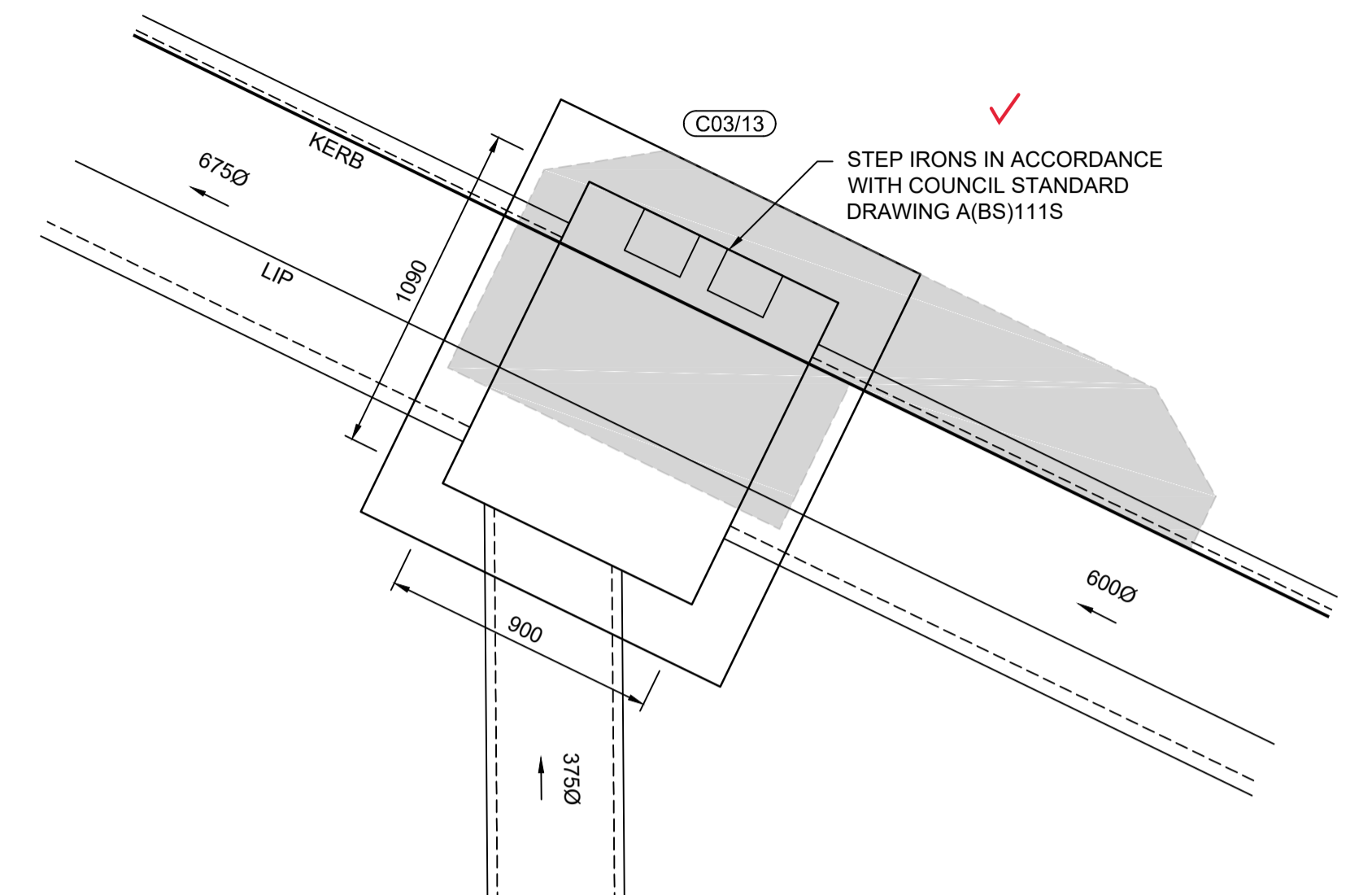
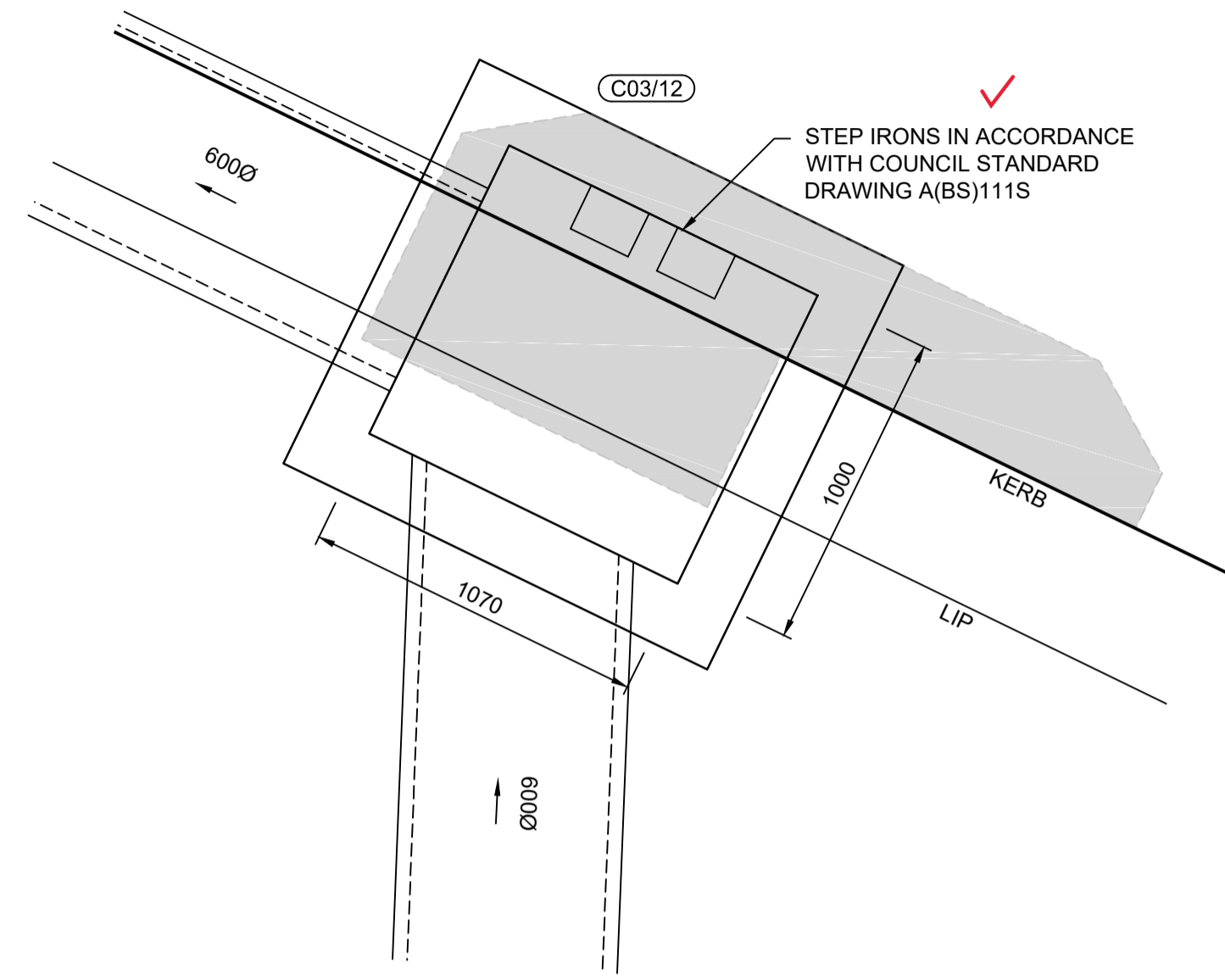
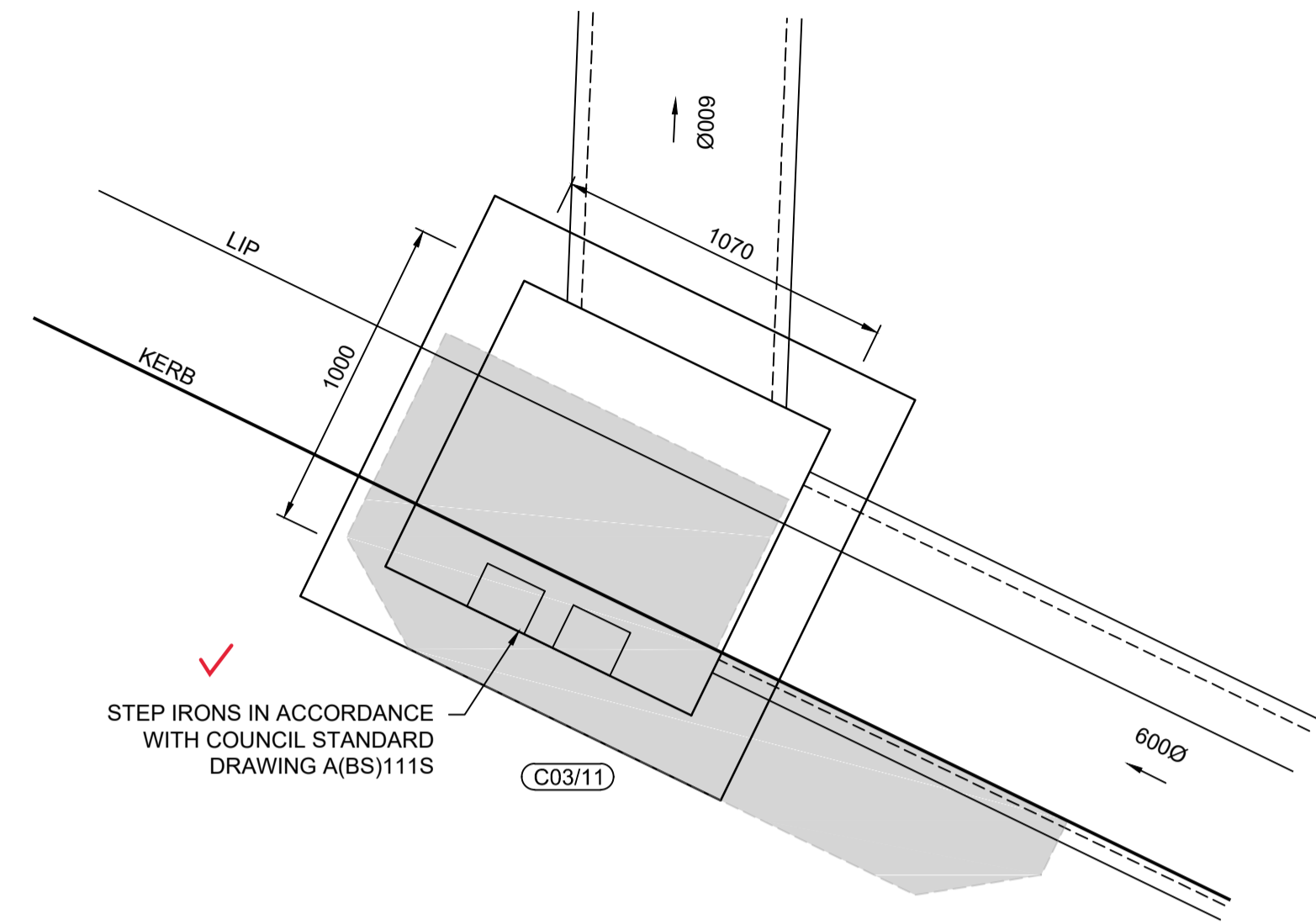
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NEWPARK PRECINCT 7, STAGE 7J
 SPECIAL PIT DETAILS
 SHEET 4


AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC17503

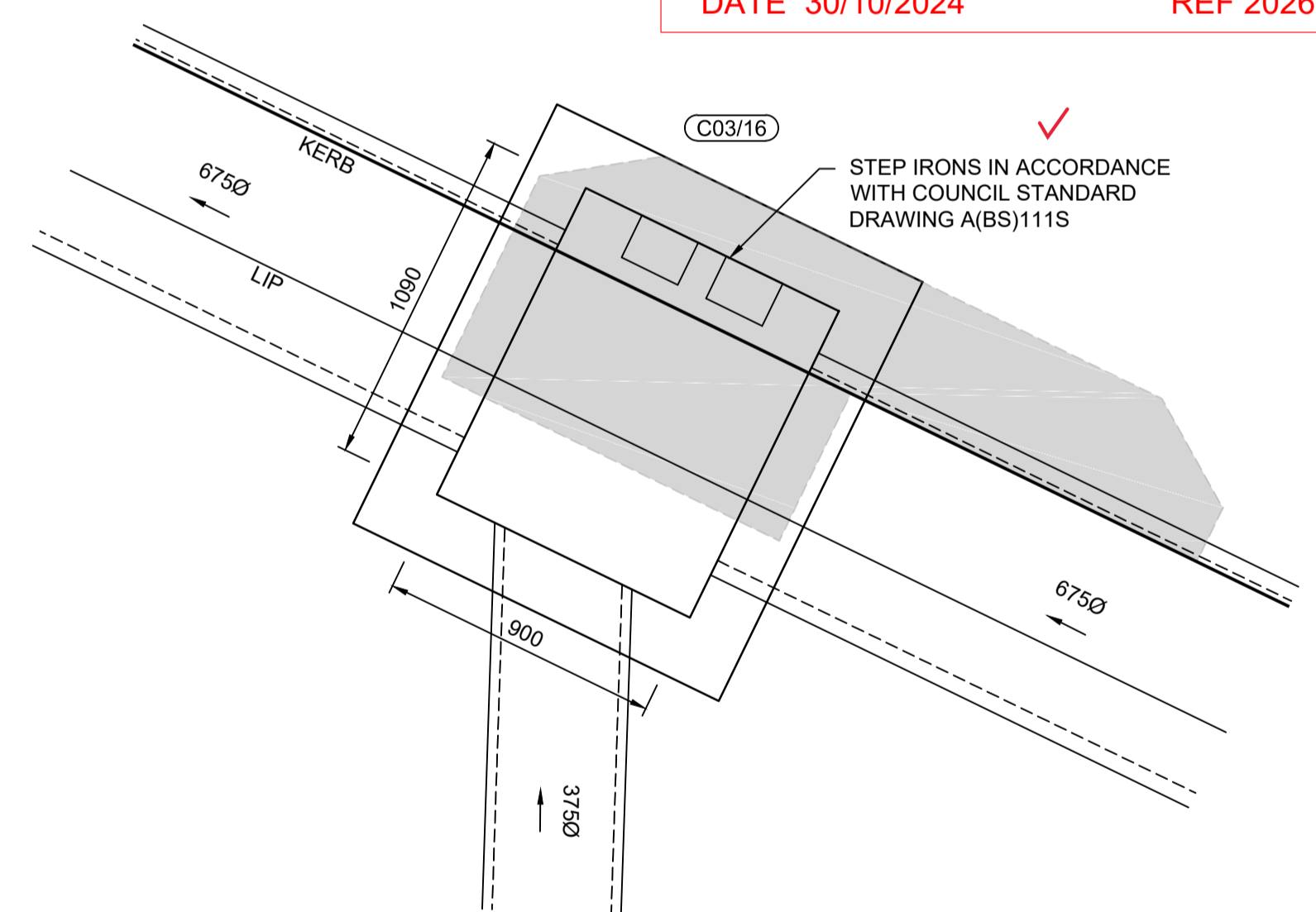
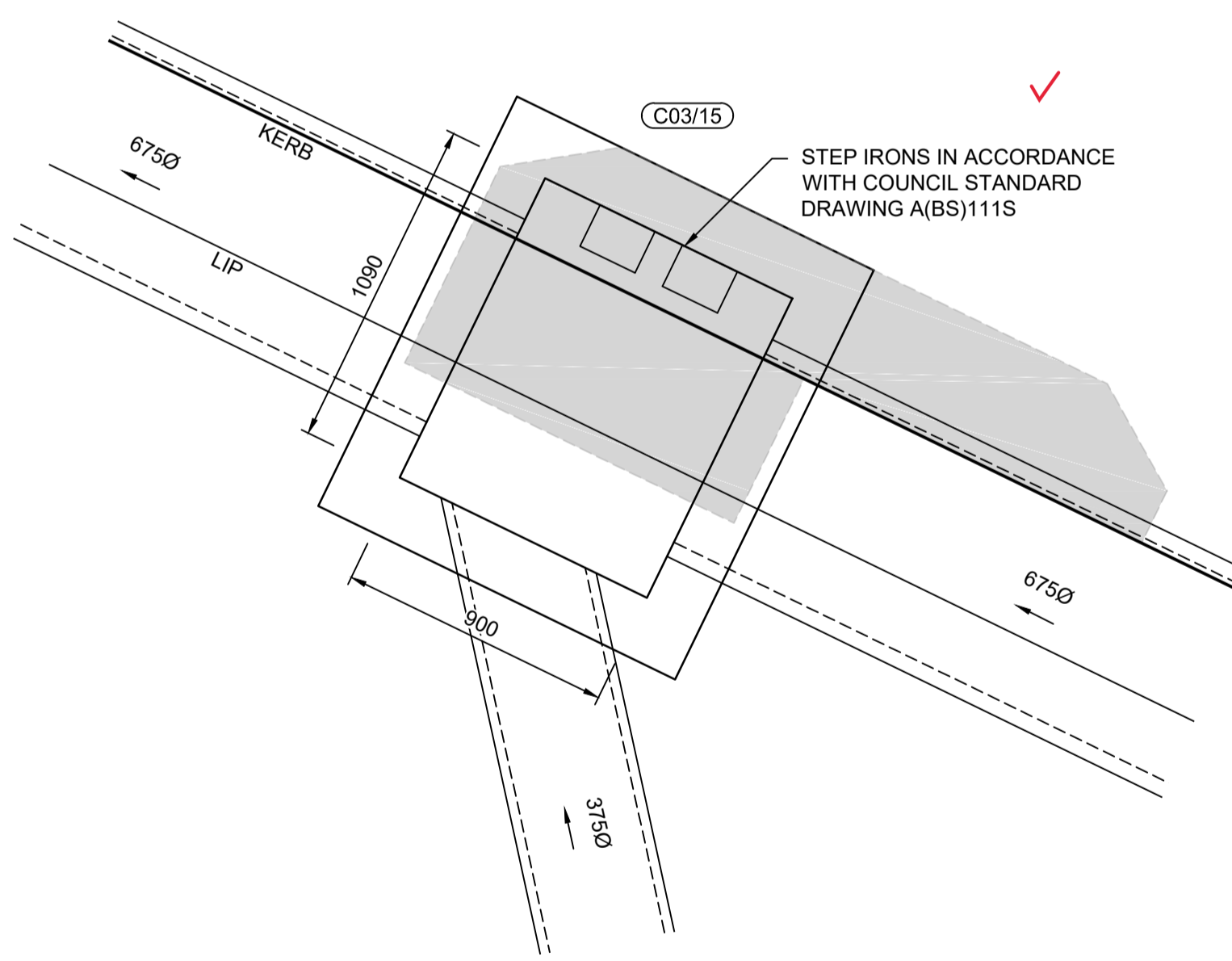
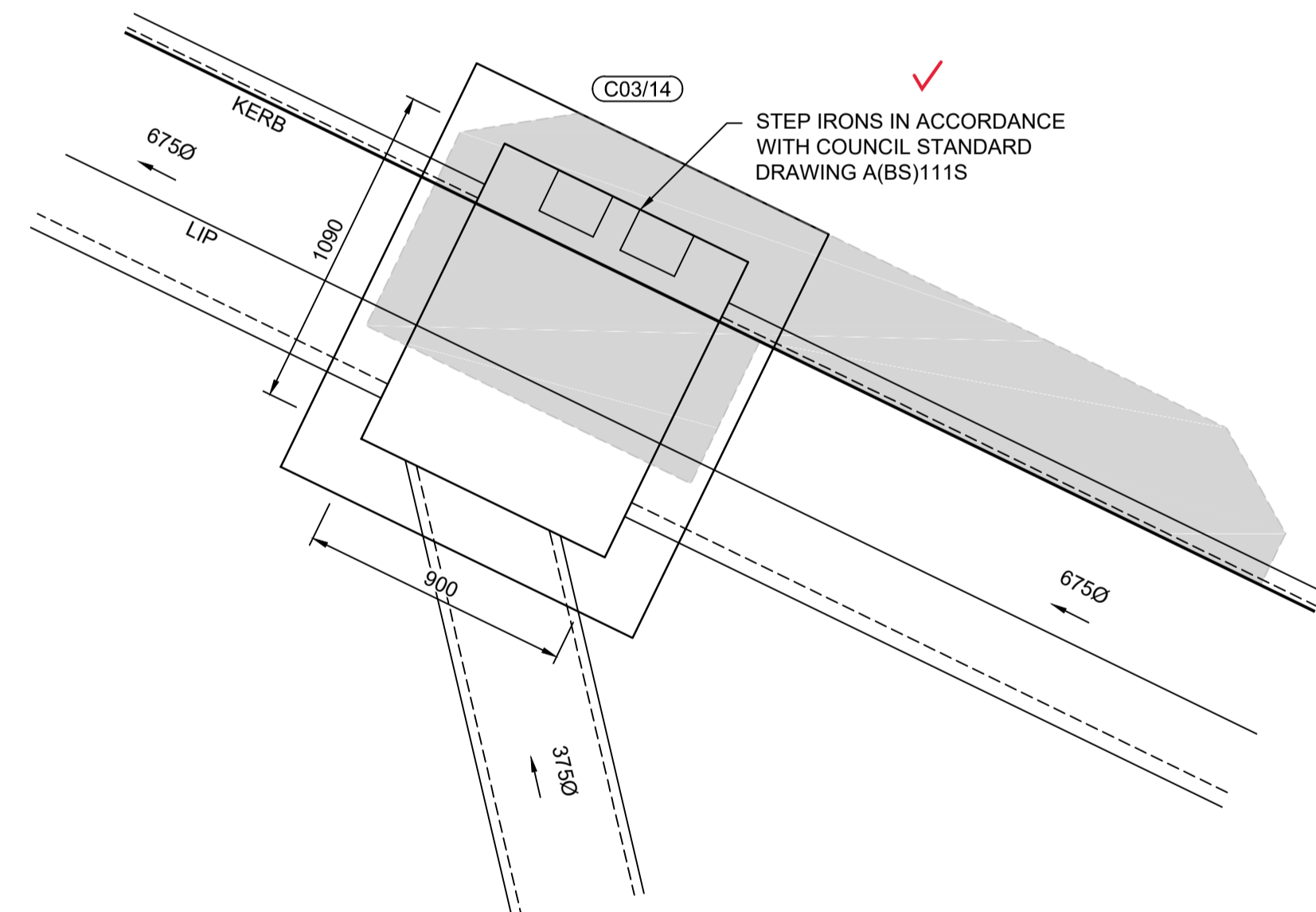
PROJECT No: **9985-12**
 SHEET No: **CC17503**

B



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Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7



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AMENDMENT	DES	DRN	CKD	APR	DATE
B	DG	NW	KM	MS	18/02/22
A	DG	NW	KM	MS	13/12/21

J. WYNDHAM PRINCE
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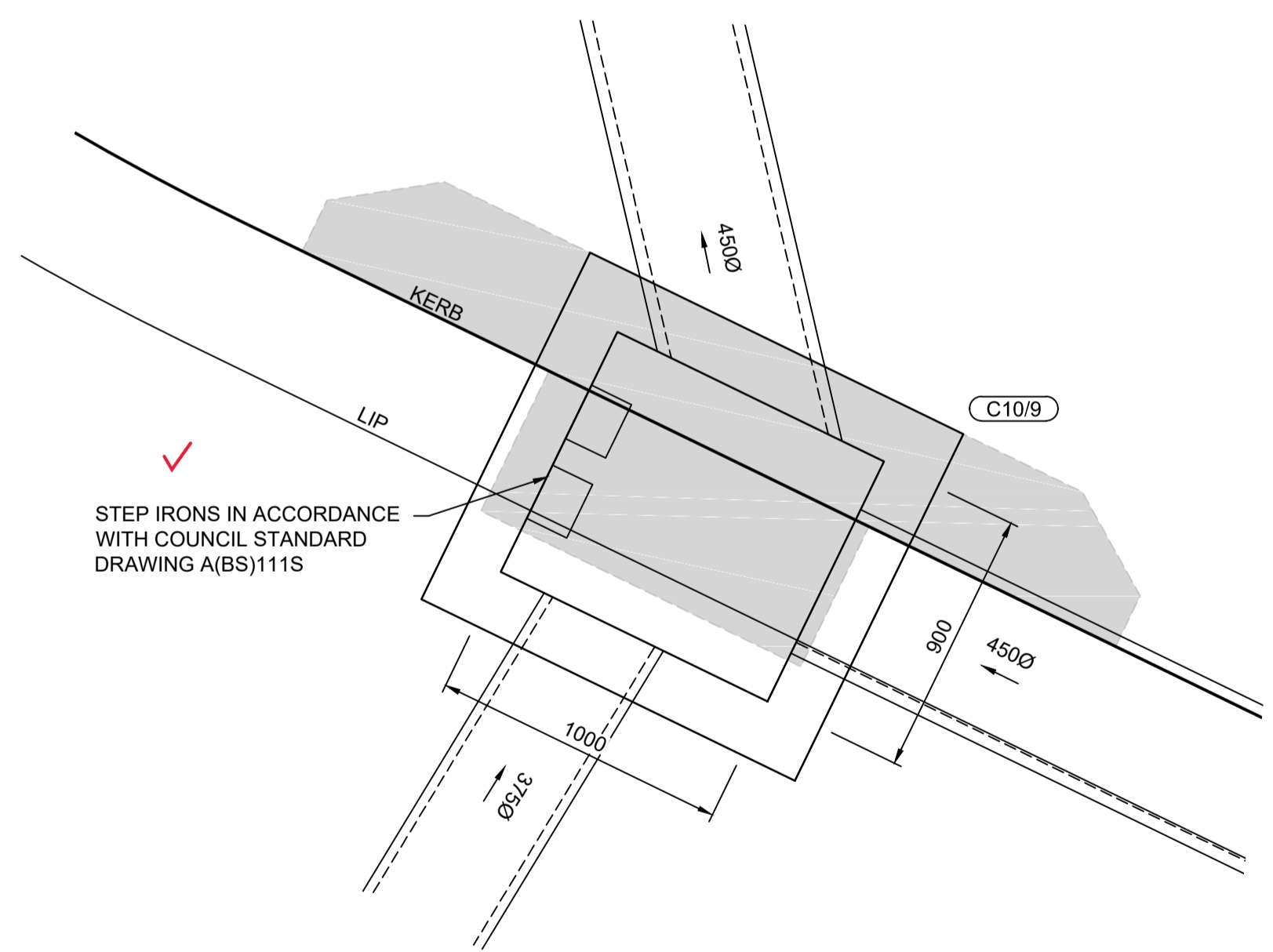
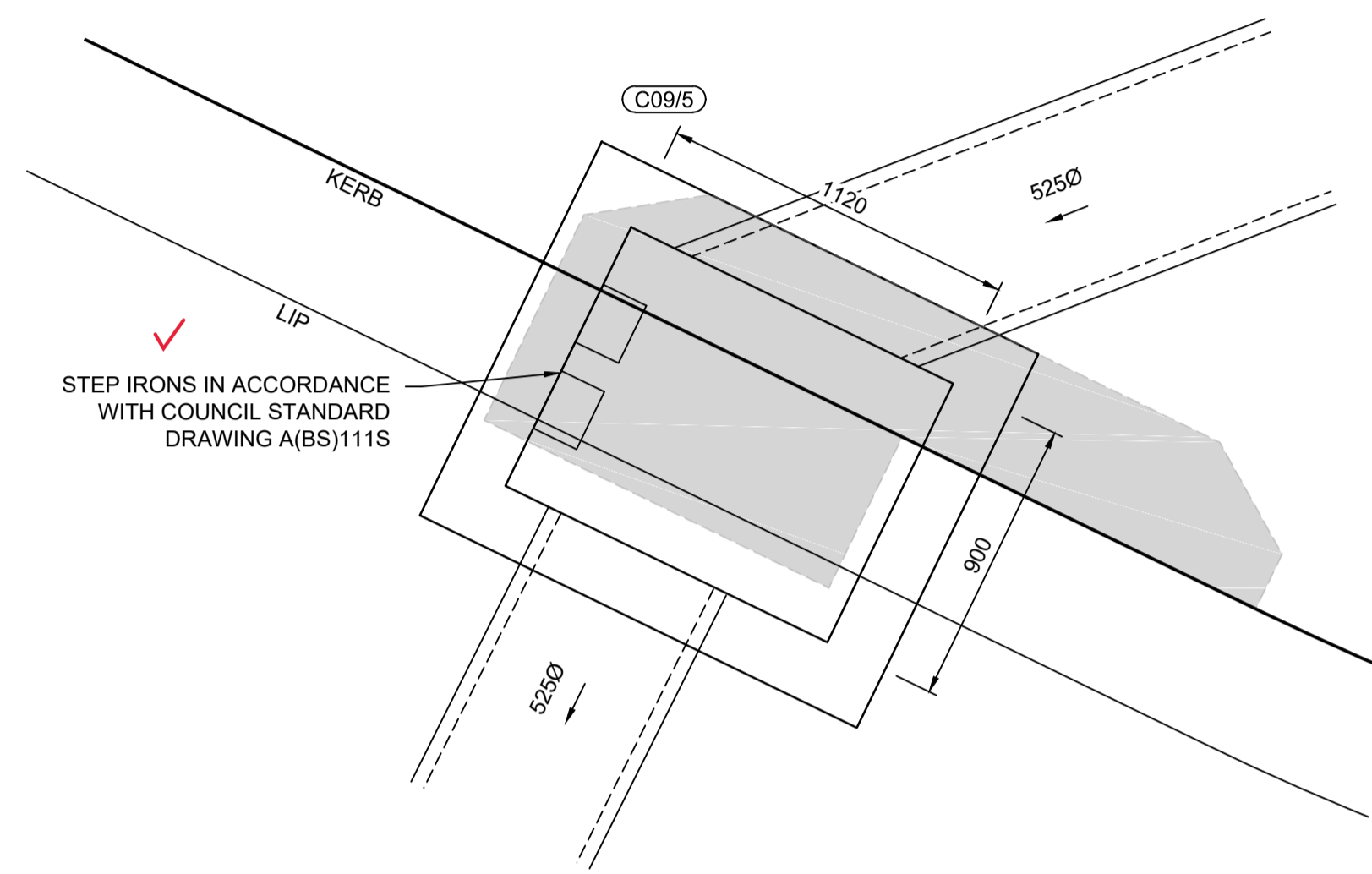
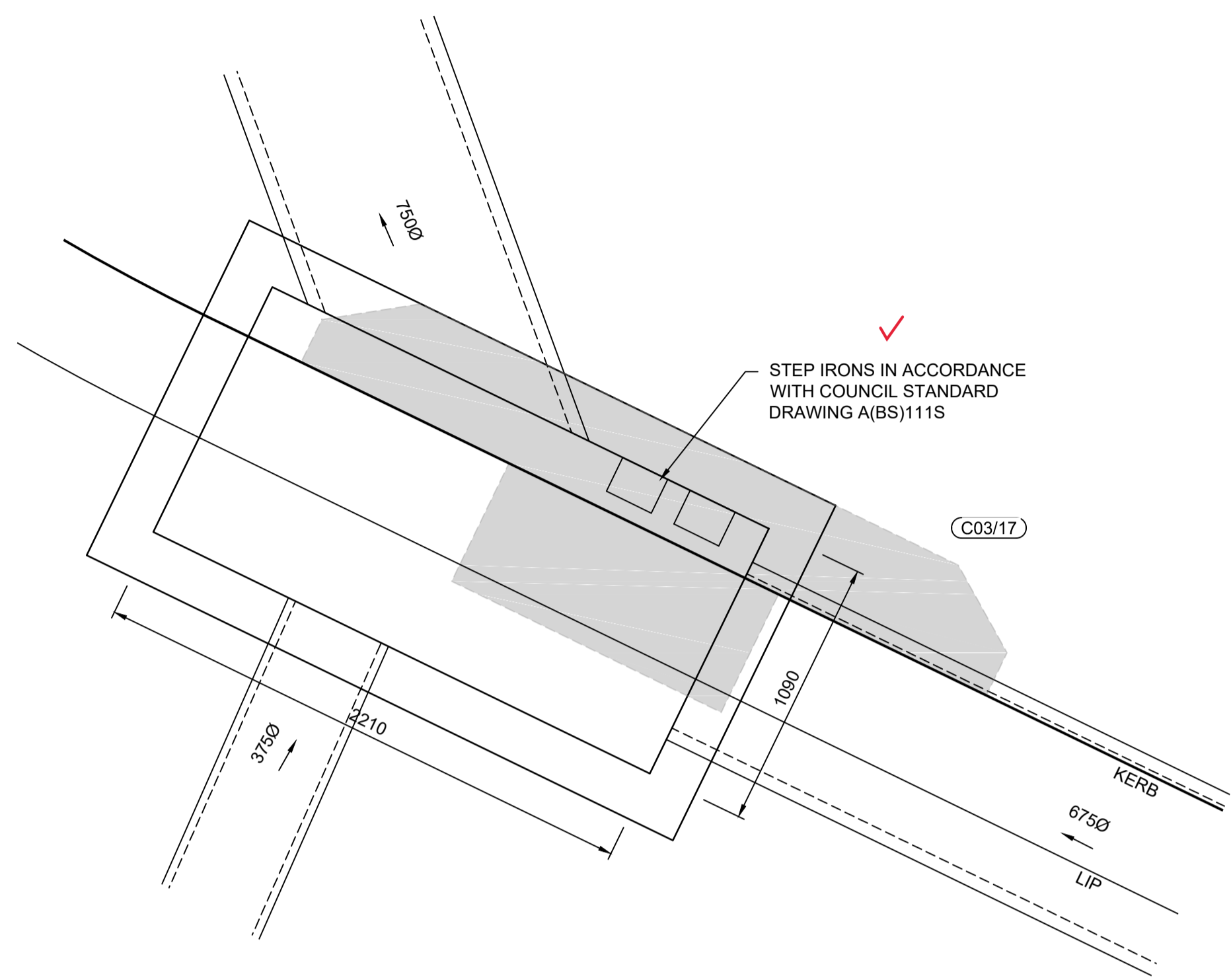
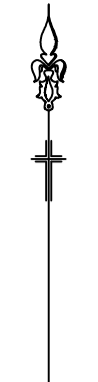
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 **WINTAN PROPERTY GROUP**

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NEWPARK PRECINCT 7, STAGE 7J
 SPECIAL PIT DETAILS
 SHEET 5

PROJECT No:
9985-12
 SHEET No:
CC17504

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC17504 B



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Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

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REV	DESCRIPTION	DES	DRN	CKD	APR	DATE
B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

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CLIENT:



WINTER PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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**NEWPARK
 PRECINCT 7, STAGE 7J
 SPECIAL PIT DETAILS
 SHEET 6**

PROJECT No: **9985-12**
 SHEET No: **CC17505**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC17505**

PROJECT No: **9985-12**
 SHEET No: **CC17505**

PLAN No: **9985-12-CC17505**

B

SOIL AND WATER MANAGEMENT NOTES

GENERAL NOTES:

- ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL, SHALL BE IMPLEMENTED TO THE REQUIREMENTS OF THE "SOILS AND CONSTRUCTION - VOLUME 1, 4TH EDITION, MARCH 2004".
- TOPSOIL FROM ALL AREAS TO BE DISTURBED SHALL BE STOCKPILED AND LATER RESPREAD TO AID REVEGETATION IN THOSE AREAS.
- ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
- ALL TAIL-OUT DRAINS SHALL BE COUCH GRASSSED AND TRAPEZOIDAL IN SECTION. STRAW BALES SHALL BE PLACED AS A SEDIMENT CONTROL DEVICE WHERE REQUIRED.
- VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING DEVELOPMENT CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS. AREAS TO BE LEFT UNDISTURBED SHALL BE MARKED OFF.
- ROADS SHALL BE PAVED AS EARLY AS POSSIBLE AFTER FORMATION.
- DISTURBANCE OF VEGETATION SHALL BE LIMITED TO FILL AREAS, ROADWAYS AND DRAINAGE LINES. NO LOT GRADING SHALL BE CARRIED OUT IN UNDISTURBED AREAS WITHOUT CONSULTATION WITH COUNCIL'S ENGINEER.
- ALL UNDISTURBED AREAS SHALL BE REVEGETATED AS SOON AS THE RELEVANT WORKS ARE COMPLETED.
- ALL SEDIMENT BASINS AND TRAPS SHALL BE CLEANED WHEN THE STRUCTURES ARE A MAXIMUM 60% FULL OF SOLID MATERIALS, INCLUDING DURING THE MAINTENANCE PERIOD.
- THE SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND COUNCIL'S WRITTEN GUIDELINES FOR THE DEVELOPMENT OF LAND.
- CONTRACTORS SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS SPECIFIED ON THE PLAN AND IN ACCORDANCE WITH THE GUIDELINES SHOWN IN "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION 4TH EDITION" (THE BLUE BOOK).
- ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR REDUCING THE SOIL EROSION AND POLLUTION OF DOWNSLOPE AREAS.
- THE SOIL EROSION HAZARD ON THE SITE IS TO BE KEPT AS LOW AS POSSIBLE AND GENERALLY IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

LAND USE	LIMITATION	COMMENTS
CONSTRUCTION AREAS	DISTURBANCE TO BE NO FURTHER THAN 5m (PREF 2m) FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON THESE PLANS	ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES - WHERE APPROPRIATE THE CONSTRUCTION AREAS ARE TO BE IDENTIFIED WITH BARRIER FENCING (DOWNSLOPE) OR SIMILAR MATERIAL.
ACCESS AREAS	LIMITED TO A MAXIMUM WIDTH OF 10m	THE SITE MANAGER SHALL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON SITE. THEY CAN VARY IN POSITION TO BEST CONSERVE THE EXISTING VEGETATION AND PROTECT DOWNSTREAM AREAS WHILE BEING CONSIDERATE OF THE NEEDS OF EFFICIENT WORKS ACTIVITIES. ALL SITE WORKERS SHALL CLEARLY RECOGNISE THEIR BOUNDARIES. WHERE APPROPRIATE THE ACCESS AREAS ARE TO BE MARKED WITH BARRIER MESH, SEDIMENT FENCING OR SIMILAR MATERIALS.
REMAINING LANDS	ENTRY PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH	THINNING OF GROWTH MAY BE REQUIRED FOR FIRE HAZARD REDUCTION.

NOTE:
WORKS WITHIN WATERWAYS AND CREEKS SHALL BE RESTRICTED AS DIRECTED - ALL LANDS WITHIN CREEKS AND WATERWAYS SHALL HAVE A GROUND COVER MORE THAN 70%, USING MATERIALS THAT CAN CATER FOR CONCENTRATED FLOWS.

- WORKS ARE TO BE UNDERTAKEN IN THE FOLLOWING SEQUENCE. EACH SUBSEQUENT STAGE IS NOT TO COMMENCE UNTIL THE PREVIOUS ONE IS COMPLETE:-
 - INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN AND TO DETAIL (SD) 6-8.
 - CONSTRUCT STABILISED SITE ACCESS AS SHOWN ON THE PLAN AND TO DETAIL (SD) 6-14.
 - CONSTRUCT LOW FLOW EARTH BANKS WHERE SHOWN ON THE PLAN AND TO DETAIL (SD) 5-5.
 - PROVIDE TEMP. ACCESS TO THE SEDIMENT BASIN(S) AND PROTECT THIS WITH SEDIMENT FENCING (SD) 6-8 OR BARRIER FENCING AND EARTH BANKS (SD) 5-5.
 - PLACE SEDIMENT FENCING (SD) 6-8 DOWNSLOPE OF LANDS TO BE DISTURBED FOR CONSTRUCTION OF THE SEDIMENT BASINS.
 - CONSTRUCT SEDIMENT BASIN(S) GENERALLY IN ACCORDANCE WITH (SD) 6-4
 - STABILISE LAND SURFACES DISTURBED BY CONSTRUCTION OF THE SEDIMENT BASIN(S) AS SOON AS FINAL LEVELS ARE ESTABLISHED
 - CLEAR THE SITE AND STRIP AND STOCKPILE THE TOPSOIL IN THE LOCATIONS SHOWN ON THE PLAN OR AS DIRECTED BY THE SITE SUPERINTENDENT TO DETAIL (SD) 4-1.
 - UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS.
 - GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 14 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
 - REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
- CLEARLY VISIBLE BARRIER FENCING SHALL BE INSTALLED WHERE DIRECTED BY THE SITE SUPERINTENDENT TO CONTROL AND PROHIBIT UNNECESSARY SITE DISTURBANCE
- EARTH BATTERS SHALL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER THAN:-
 - 2(h) - 1(v) WHERE SLOPE LENGTH IS LESS THAN 7m
 - 2.5(h) - 1(v) WHERE SLOPE LENGTH IS BETWEEN 7m AND 10m
 - 3(h) - 1(v) WHERE SLOPE LENGTH IS BETWEEN 10m AND 12m
 - 4(h) - 1(v) WHERE SLOPE LENGTH IS BETWEEN 12m AND 18m
 - 5(h) - 1(v) WHERE SLOPE LENGTH IS BETWEEN 18m AND 27m
 - 6(h) - 1(v) WHERE SLOPE LENGTH IS GREATER THAN 27m

SLOPE LENGTHS CAN BE SHORTENED BY USING LOW FLOW EARTH BANKS AS CATCH DRAINS ABOVE THE EARTH BATTER AREA.

- PROTECTION FROM EROSION FORCES SHALL BE UNDERTAKEN ON ALL LANDS. GROUND COVER TO BE IN PLACE WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION AND BEFORE THEY ARE ALLOWED TO CARRY ANY CONCENTRATED FLOWS.
- TEMPORARY GROUND COVER SHOULD BE MINIMUM 70%. FOOT AND VEHICULAR TRAFFIC SHALL BE KEPT AWAY FROM REHABILITATED AREAS.
- WHERE POSSIBLE THE CONSTRUCTION PROGRAM IS TO SCHEDULE WORKS SUCH THAT LAND DISTURBANCE ACTIVITIES ARE COMPLETED IN LESS THAN 6 MONTHS. REVEGETATION WORKS MUST BE CARRIED OUT AS STIPULATED IN THE RELEVANT COUNCIL GUIDELINES / SPECIFICATIONS SUCH THAT A SATISFACTORY GROUND COVER IS PROVIDED TO AT LEAST 60% OF THE DISTURBED AREA WITHIN 10 DAYS AND AT LEAST 70% OF THE DISTURBED AREA WITHIN A FURTHER 60 DAYS..
- SEDIMENT FENCES (SD) 6-8 SHALL:-
 - BE INSTALLED WHERE SHOWN ON THE PLAN AND AS DIRECTED AT THE DISCRETION OF THE SITE SUPERINTENDENT DURING THE COURSE OF CONSTRUCTION TO CONTAIN THE COARSER SEDIMENT FRACTIONS AS NEAR AS POSSIBLE TO THEIR SOURCE.
 - HAVE A CATCHMENT AREA NOT EXCEEDING 720sq.m. AND A STORAGE DEPTH OF AT LEAST 0.6m.
 - PROVIDE AN UPSLOPE RETURN OF 1m AT INTERVALS ALONG THE FENCE WHERE THE CATCHMENT AREA EXCEEDS 720sq.m. TO LIMIT THE DISCHARGE REACHING EACH SECTION TO 50litres/sec IN A MAX. 10yr Tc DISCHARGE.
- STOCKPILES (SD) 4-1 SHALL BE LOCATED AS SHOWN ON THE PLANS AND AT THE DISCRETION OF THE SITE SUPERINTENDENT.
- DURING WINDY WEATHER LARGE UNPROTECTED AREAS ARE TO BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL. IN THE EVENT WATER IS NOT AVAILABLE IN SUFFICIENT QUANTITIES SOIL BINDERS AND/OR DUST RETARDANTS SHALL BE USED OR THE SURFACE SHALL BE LEFT IN A CLODDY STATE THAT RESISTS REMOVAL BY WIND.
- STOCKPILES SHALL NOT BE LOCATED WITHIN 5m OF HAZARD AREAS, INCLUDING LIKELY AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS OR DRIVEWAYS.
- THE SEDIMENT RETENTION BASINS (SD) 6-4 SHALL:- (REFER TO J WYNNDHAM PRINCE PLAN REF 998512-CC2702 FOR PRECINCT 7, STAGE 7A SEDIMENT BASIN DESIGN DETAILS)
 - BE CONSTRUCTED WHERE SHOWN ON THE PLANS.
 - BE FLOCCULATED (APPENDIX E MANAGING URBAN STORMWATER SOILS & CONSTRUCTION 4TH ED.) BEFORE DISCHARGE OCCURS (UNLESS THE DESIGN STORM EVENT IS EXCEEDED)
 - HAVE ONE OR MORE PEGS PLACED ON THE FLOOR TO CLEARLY INDICATE THE LEVEL AT WHICH DESIGN CAPACITY OCCURS AND WHEN SEDIMENT SHALL BE REMOVED.

- STORED CONTENTS OF THE BASINS SHALL BE TREATED WITH GYPSUM (APPENDIX E MANAGING URBAN STORMWATER SOILS & CONSTRUCTION 4TH ED.) OR OTHER FLOCCULATING AGENTS WHERE THEY CONTAIN MORE THAN 50mg/litre OF SUSPENDED SOLIDS. TREATMENT SHALL BE AS FOLLOWS:-
 - LOWER SUSPENDED SOLIDS TO LESS THAN 50mg/litre WITHIN 24hrs OF FILLING
 - THE BASINS SHALL THEN BE ALLOWED TO STAND 36 TO 48hrs FOR FLOCCULATED PARTICLES TO SETTLE
 - THE BASINS SHALL THEN BE DRAINED SO THAT FULL STORAGE CAPACITY IS REGAINED WITHOUT DISCHARGING SEDIMENT FROM THE SITE.
- SEDIMENT REMOVED FROM ANY TRAPPING DEVICE SHALL BE DISPOSED IN LOCATIONS WHERE FURTHER EROSION AND CONSEQUENT POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS SHALL NOT OCCUR.
- WATER SHALL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE (ie THE CATCHMENT HAS BEEN LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN TREATED IN AN APPROVED DEVICE) NEVERTHELESS STORMWATER INLETS SHALL BE PROTECTED (SD) 6-11 & 6-12.
- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE STABILISED.
- ACCEPTABLE BINS SHALL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES SHALL BE PROVIDED AT LEAST ONCE A WEEK.

STOCKPILE NOTES:

- SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
- IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 14 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH A MULCH OR WITH TEMPORARY VEGETATION.
- FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACES AND REVEGETATED.

SEDIMENTATION CONTROL DEVICES:

- ALL STRAW BALES SHALL BE BOUND WITH WIRE. STRAW BALES SHALL BE PLACED END TO END IN A SINGLE ROW AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm. EACH BALE SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 600mm INTO THE GROUND AND LOCKED ON THE BALE CENTRELINE.
- SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 2.5m CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.
- PROVIDE STRIP OF TURF MIN. 300mm WIDE BEHIND KERB + 1m WIDE AROUND ALL SURFACE INLET PITS

SITE INSPECTION AND MAINTENANCE:

- A SELF-AUDITING PROGRAM SHALL BE ESTABLISHED BASED ON AN INSPECTION TEST PLAN (ITP) OR LOG BOOK. A SITE INSPECTION USING THE ITP SHALL BE MADE BY THE SITE MANAGER:-
 - AT LEAST WEEKLY
 - IMMEDIATELY BEFORE SITE CLOSURE
 - IMMEDIATELY FOLLOWING RAINFALL EVENTS IN EXCESS OF 5mm IN ANY 24hr PERIOD.

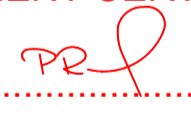
THE SELF AUDIT SHALL INCLUDE:-

- RECORDING THE CONDITION OF EVERY 'BEST MANAGEMENT PRACTICE' EMPLOYED
 - RECORDING MAINTENANCE REQUIREMENTS (IF ANY) FOR EACH 'BEST MANAGEMENT PRACTICE'
 - RECORDING THE VOLUMES OF SEDIMENT REMOVED FROM SEDIMENT RETENTION SYSTEMS WHERE APPLICABLE
 - RECORDING THE SITE WHERE SEDIMENT IS DISPOSED
 - FORWARDING A SIGNED DUPLICATE OF THE COMPLETED CHECK SHEET TO THE PROJECT MANAGER/DEVELOPER FOR THEIR INFORMATION.
- IN ADDITION A SUITABLY QUALIFIED PERSON SHALL BE RESPONSIBLE FOR OVERSEEING THE INSTALLATION AND MAINTENANCE OF ALL SOIL AND WATER MANAGEMENT WORKS ON THE SITE. THE PERSON SHALL BE REQUIRED TO SPEND A MINIMUM OF:-
 - 2hrs ONSITE EACH FORTNIGHT UP UNTIL COMPLETION OF ROAD AND DRAINAGE WORKS AND/OR THE COMMISSIONING OF SEDIMENT BASIN(S)/WATER QUALITY CONTROL FACILITIES, AND DURING THE DECOMMISSIONING OF SAME AND/OR FINAL SITE STABILISATION. TO PROVIDE A SHORT MONTHLY WRITTEN REPORT.
 - ONE HOUR ONSITE EACH 2 MONTHS DURING THAT PHASE WHERE THE DEVELOPERS RESPONSIBILITIES ARE LIMITED TO MAINTENANCE OF THE SDS DEVICES AND/OR SEDIMENT BASINS (ie DURING THE STAGE WHEN BUILDING WORKS CAN BE UNDERTAKEN) TO PROVIDE A SHORT WRITTEN REPORT EACH 4 MONTHS

THE RESPONSIBLE PERSON SHALL ENSURE THAT:-

- THIS PLAN IS BEING IMPLEMENTED CORRECTLY
 - REPAIRS ARE BEING UNDERTAKEN AS REQUIRED
 - ESSENTIAL MODIFICATIONS TO THIS PLAN ARE BEING MADE IF AND WHEN NECESSARY. EACH REPORT SHALL CERTIFY THAT WORKS HAVE BEEN CARRIED OUT ACCORDING TO THE APPROVED PLANS.
- WASTE BINS SHALL BE EMPTIED AS NECESSARY, DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT
 - PROPER DRAINAGE OF THE SITE SHALL BE MAINTAINED. DRAINS (INCLUDING INLET AND OUTLET WORKS) SHALL BE CHECKED TO ENSURE THAT THEY ARE OPERATING AS INTENDED, ESPECIALLY THAT:-
 - NO LOW POINTS EXIST WHICH CAN OVERTOP IN A LARGE STORM EVENT.
 - AREAS OF EROSION ARE REPAIRED (e.g LINED WITH SUITABLE MATERIAL) AND/OR VELOCITY OF FLOW IS REDUCED APPROPRIATELY THROUGH CONSTRUCTION OF SMALL CHECK DAMS OR INSTALLING ADDITIONAL DIVERSIONS UPSLOPE
 - BLOCKAGES ARE CLEARED (THESE MIGHT OCCUR BECAUSE OF SEDIMENT POLLUTION, SAND/SOIL/SPOIL BEING DEPOSITED IN OR TOO CLOSE TO THEM, BREACHED BY VEHICLE WHEELS etc)
 - SAND/SOIL/SPOIL MATERIALS PLACED CLOSER THAN 2m FROM HAZARD AREAS SHALL BE REMOVED SUCH HAZARD AREAS INCLUDE ANY AREAS OF HIGH VELOCITY WATER FLOWS (eg WATERWAYS AND GUTTERS) PAVED AREAS AND DRIVEWAYS.
 - RECENTLY STABILISED LANDS SHALL BE CHECKED TO ENSURE THAT THE EROSION HAZARD HAS BEEN EFFECTIVELY REDUCED. ANY REPAIRS SHALL BE INITIATED AS APPROPRIATE.
 - EXCESSIVE VEGETATIVE GROWTH SHALL BE CONTROLLED THROUGH MOWING OR SLASHING.
 - ALL SEDIMENT DETENTION SYSTEMS SHALL BE KEPT IN GOOD WORKING CONDITION. IN PARTICULAR ATTENTION SHALL BE GIVEN TO:-
 - RECENT WORKS TO ENSURE THAT THEY HAVE NOT RESULTED IN DIVERSION OF SEDIMENT LADEN WATER AWAY FROM THEM.
 - DEGRADABLE PRODUCTS TO ENSURE THAT THEY ARE REPLACED AS REQUIRED
 - SEDIMENT REMOVAL TO ENSURE THE DESIGN CAPACITY OR LESS REMAINS IN THE SETTLING ZONE.
 - ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS SHALL BE CONSTRUCTED AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS (ie MAKE ONGOING CHANGES TO THIS PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECT TO CHANGES IN CONDITIONS AT THE WORKS SITE OR ELSEWHERE IN THE CATCHMENT.
 - EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN A FUNCTIONING CONDITION UNTIL ALL EARTHWORKS ACTIVITIES ARE COMPLETED AND THE SITE STABILISED.
 - WATERS IN SEDIMENT RETENTION BASIN(S) THAT OCCUPY MORE THAN 1/4 OF THE DESIGN CAPACITY DURING THAT STAGE OF THE WORKS UP UNTIL COMMISSIONING OF THE BASIN(S) SHALL BE:-
 - TREATED WITH A FLOCCULATING AGENT (APPENDIX E MANAGING URBAN STORMWATER SOILS & CONSTRUCTION 4TH ED.)
 - DISCHARGED WITHIN 5 days FROM THE CONCLUSION OF ANY STORM EVENT LARGE ENOUGH TO FILL THE BASIN TO THAT LEVEL.
 - LITTER, DEBRIS AND COARSE SEDIMENT SHALL BE REMOVED FROM THE GROSS POLLUTANT TRAPS AND TRASH RACKS AS REQUIRED.

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16953 issued by LAND DEVELOPMENT CERTIFICATES

Signature..........
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/10/2024 REF 20260-7

These plans are referred to in certificate no. **16953** approved by:



Christopher Louis Wahbe
Registered Certifier
Registration No: BDC 3015
Categories: Certifier – Subdivision

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B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22	
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21	
	AMENDMENT	DES	DRN	CKD	APR	DATE	

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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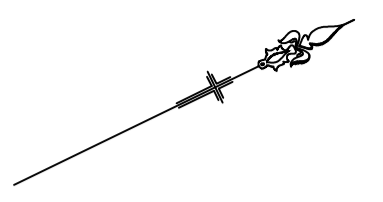
**NEWPARK
PRECINCT 7, STAGE 7J
SOIL WATER MANAGEMENT NOTES**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC17700**

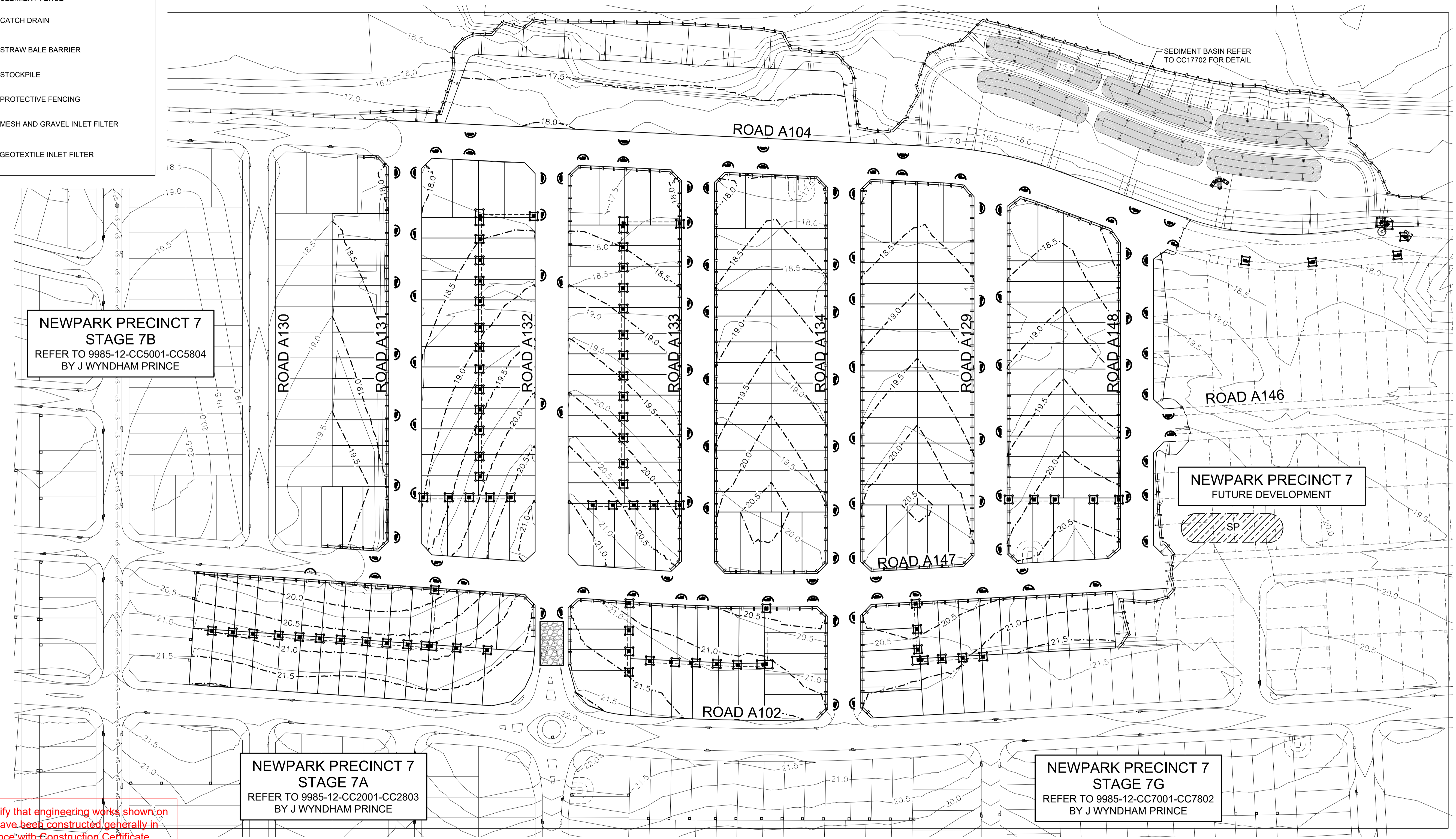
PROJECT No: **9985-12**

SHEET No: **CC17700**

B



LEGEND	
	STABILISED SITE ACCESS & WHEEL WASH BAY
	SEDIMENT FENCE
	CATCH DRAIN
	STRAW BALE BARRIER
	STOCKPILE
	PROTECTIVE FENCING
	MESH AND GRAVEL INLET FILTER
	GEOTEXTILE INLET FILTER



**NEWPARK PRECINCT 7
STAGE 7B**
REFER TO 9985-12-CC5001-CC5804
BY J WYNDHAM PRINCE

**NEWPARK PRECINCT 7
FUTURE DEVELOPMENT**

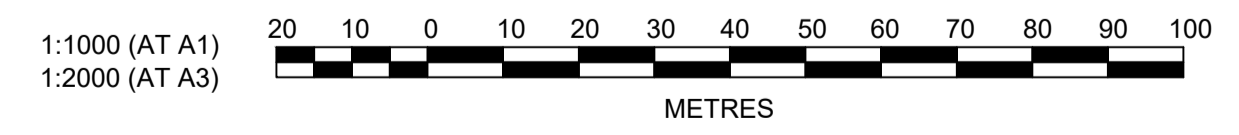
**NEWPARK PRECINCT 7
STAGE 7A**
REFER TO 9985-12-CC2001-CC2803
BY J WYNDHAM PRINCE

**NEWPARK PRECINCT 7
STAGE 7G**
REFER TO 9985-12-CC7001-CC7802
BY J WYNDHAM PRINCE

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16953 issued by
LAND DEVELOPMENT CERTIFICATES

Signature.....
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/10/2024 REF 20260-7

These plans are referred to in certificate no. 16953 approved by:
Christopher Louis Wahbe
Registered Certifier
Registration No: BDC 3015
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A					13/12/21

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PO Box 4366 PENRITH WESTFIELD NSW 2750
P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

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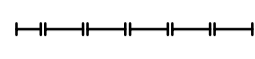
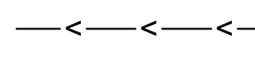



NEWPARK PRECINCT 7, STAGE 7J
SOIL WATER MANAGEMENT PLAN

PROJECT No: **9985-12**
SHEET No: **CC17701**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC17701**

B

LEGEND

-  SEDIMENT FENCE
-  CATCH DRAIN
-  STRAW BALE BARRIER
-  MESH AND GRAVEL INLET FILTER
-  GEOTEXTILE INLET FILTER

1. Site Data Sheet

Site Name: NEWPARK PRECINCT 7 - SEDIMENT BASIN MS2
 Site Location: MARSDEN PARK
 Precinct: BLACKTOWN CITY COUNCIL
 Description of Site: SEDIMENT BASIN TO SUPPORT THE PRECINCT 7J & 7H SUBDIVISION CONSTRUCTION

Site area	Site	Remarks
Total catchment area (ha)	7.04	
Disturbed catchment area (ha)	22.3	

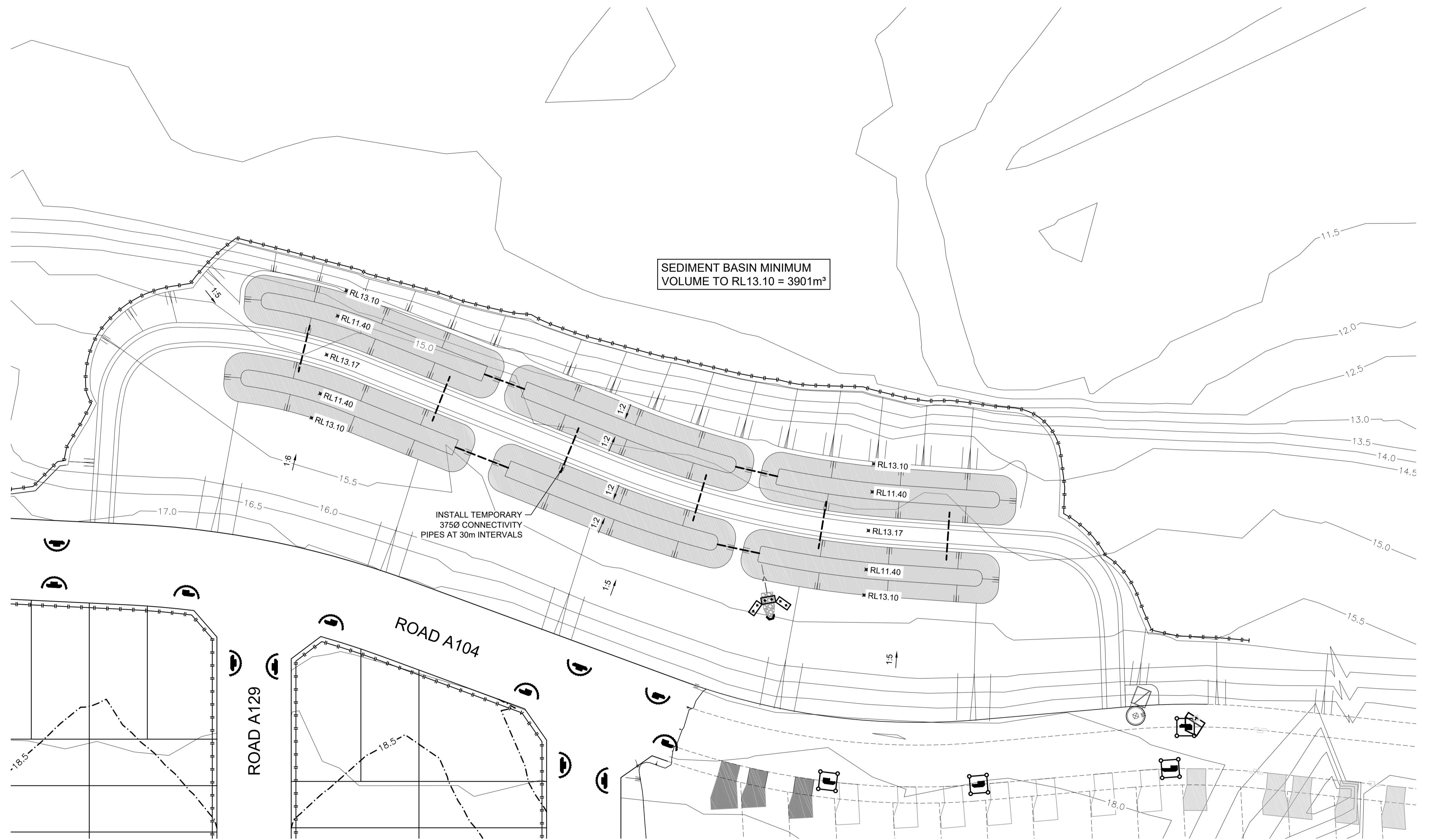
Soil analysis		Remarks
% sand (fraction 0.02 to 2.00 mm)	25	Soil texture should be assessed through mechanical dispersion only. Dispersing agents (e.g. Calgon) should not be used. E.g. enter 10 for dispersion of 10%. See Section 6.3.3(e).
% silt (fraction 0.002 to 0.02 mm)	75	
% clay (fraction finer than 0.002 mm)	100.0	
Dispersion percentage	87.5	
% of whole soil dispersible	D	

Rainfall data		Remarks
Design rainfall depth (days)	5	See Sections 6.3.4 (d) and (e)
Design rainfall depth (percentile)	85	See Sections 6.3.4 (f) and (g)
x-day, y-percentile rainfall event	32.2	See Section 6.3.4 (h)
Rainfall intensity: 2-year, 6-hour storm	10.1	See IFD chart for the site

RUSLE Factors		Remarks
Rainfall erosivity (R-factor)	2250	Automatic calculation from above data. RUSLE data can be obtained from Appendixes A, B and C.
Soil erodibility (K-factor)	0.038	
Slope length (m)	80	
Slope gradient (%)	2	
Length/gradient (LS-factor)	0.65	
Erosion control practice (P-factor)	1.3	
Ground cover (C-factor)	1	

Calculations		Remarks
Soil loss (t/ha/yr)	72	
Soil Loss Class	1	See Section 4.4.2(b)
Soil loss (m ³ /ha/yr)	56	
Sediment basin storage volume, m ³	211	See Sections 6.3.4(i) and 6.3.5 (e)

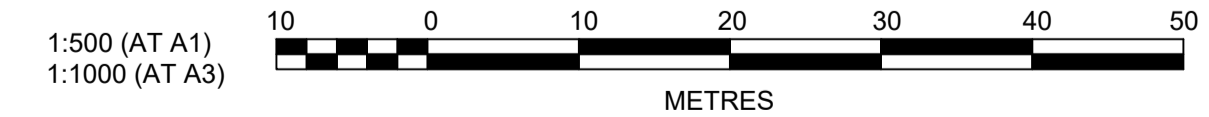
Total Basin Volume						
Site	C _v	R ₅₀ , y-%ile	Total catchment area (ha)	Settling zone volume (m ³)	Sediment storage volume (m ³)	Total basin volume (m ³)
7.04	0.50	32.2	22.3	3590.3	211	3801.3



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16953 issued by LAND DEVELOPMENT CERTIFICATES

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

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B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
A	ISSUE FOR CAA APPROVAL	DG	NW	KM	MS	13/12/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

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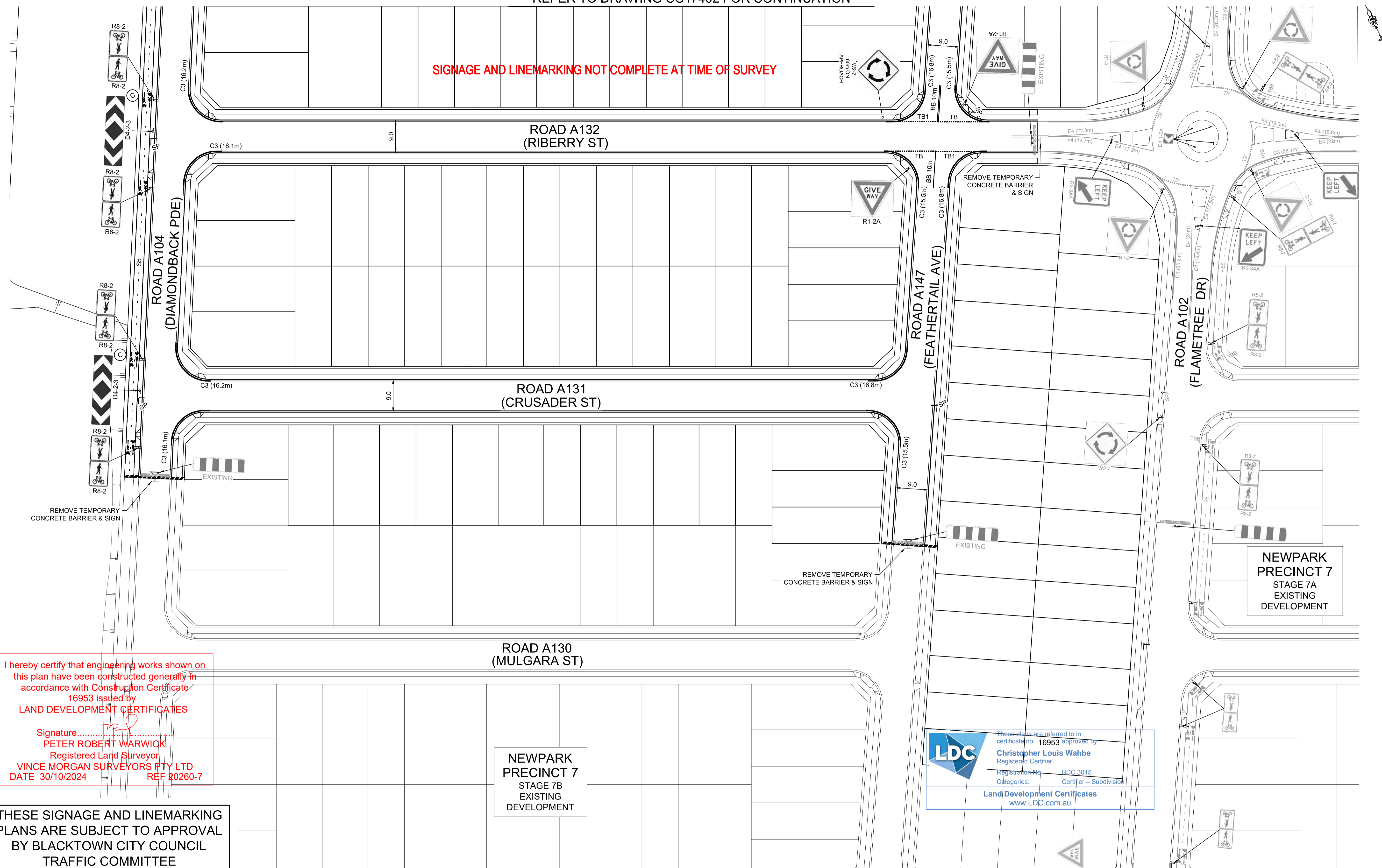
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NEWPARK PRECINCT 7, STAGE 7J SEDIMENT BASIN PLAN
 PROJECT No: **9985-12**
 SHEET No: **CC17702**
 PLAN No: **9985-12-CC17702**

AMAZON: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112
 B

REFER TO DRAWING CC17402 FOR CONTINUATION

SIGNAGE AND LINEMARKING NOT COMPLETE AT TIME OF SURVEY



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Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
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**NEWPARK
 PRECINCT 7
 STAGE 7B
 EXISTING
 DEVELOPMENT**

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NOTE: REFER TO CC17803 FOR LEGEND AND NOTES.

1:500 (AT A1)
 1:1000 (AT A3)
 10 0 10 20 30 40 50
 METRES

Plotted: 18 February 2022 10:27:25 AM File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\17 - Precinct 7\9985-12-CC17801.dwg

B	ISSUE FOR SUBDIVISION WORKS CERTIFICATE APPROVAL	DG	NW	KM	MS	18/02/22
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NEWPARK PRECINCT 7, STAGE 7J SIGNAGE & LINEMARKING PLAN SHEET 1

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC17801

PROJECT No: **9985-12**
 SHEET No: **CC17801**

REFER TO DRAWING CC17803 FOR CONTINUATION

ROAD A129
(BOODIE ST)

SIGNAGE AND LINEMARKING NOT COMPLETE AT TIME OF SURVEY

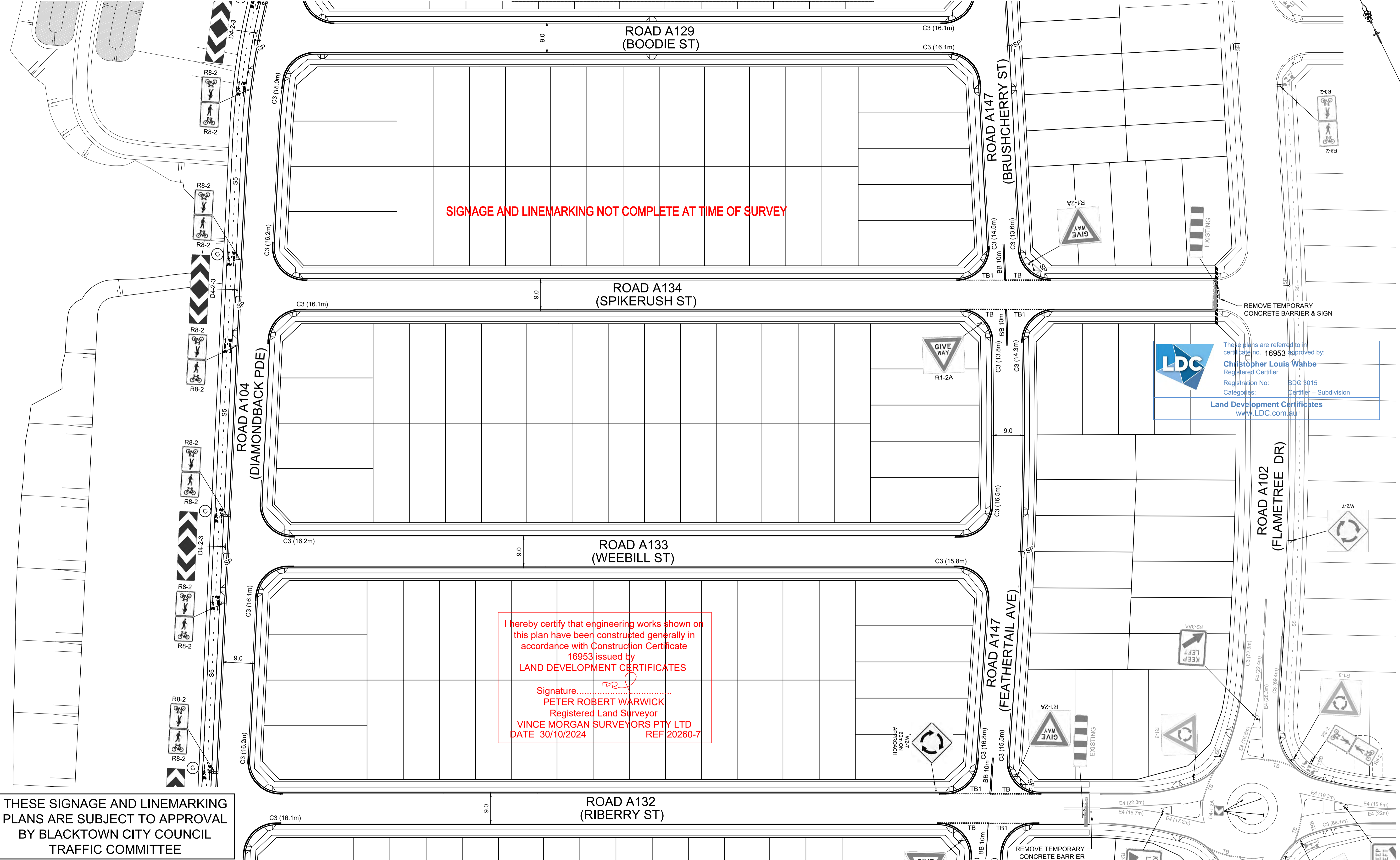
ROAD A134
(SPIKERUSH ST)

ROAD A133
(WEEBILL ST)

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Signature.....
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Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/10/2024 REF 20260-7

ROAD A132
(RIBERRY ST)

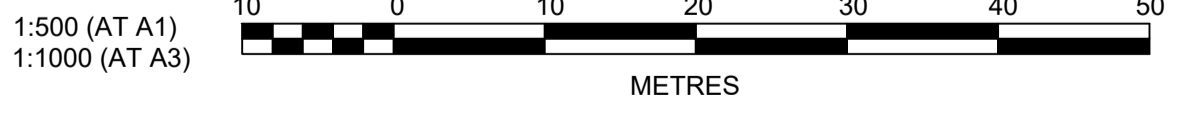
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NOTE: REFER TO CC17803 FOR LEGEND AND NOTES.



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A	DG	NW	KM	MS	13/12/21
	DES	DRN	CKD	APR	DATE

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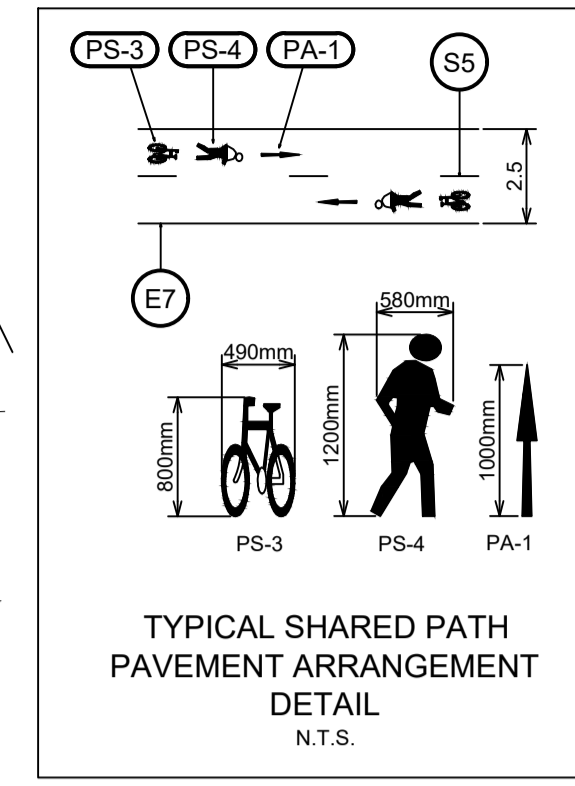
NEWPARK PRECINCT 7, STAGE 7J
SIGNAGE & LINEMARKING PLAN
SHEET 2
AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC17802

PROJECT No:
9985-12
SHEET No:
CC17802
B

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Signature: 
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 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

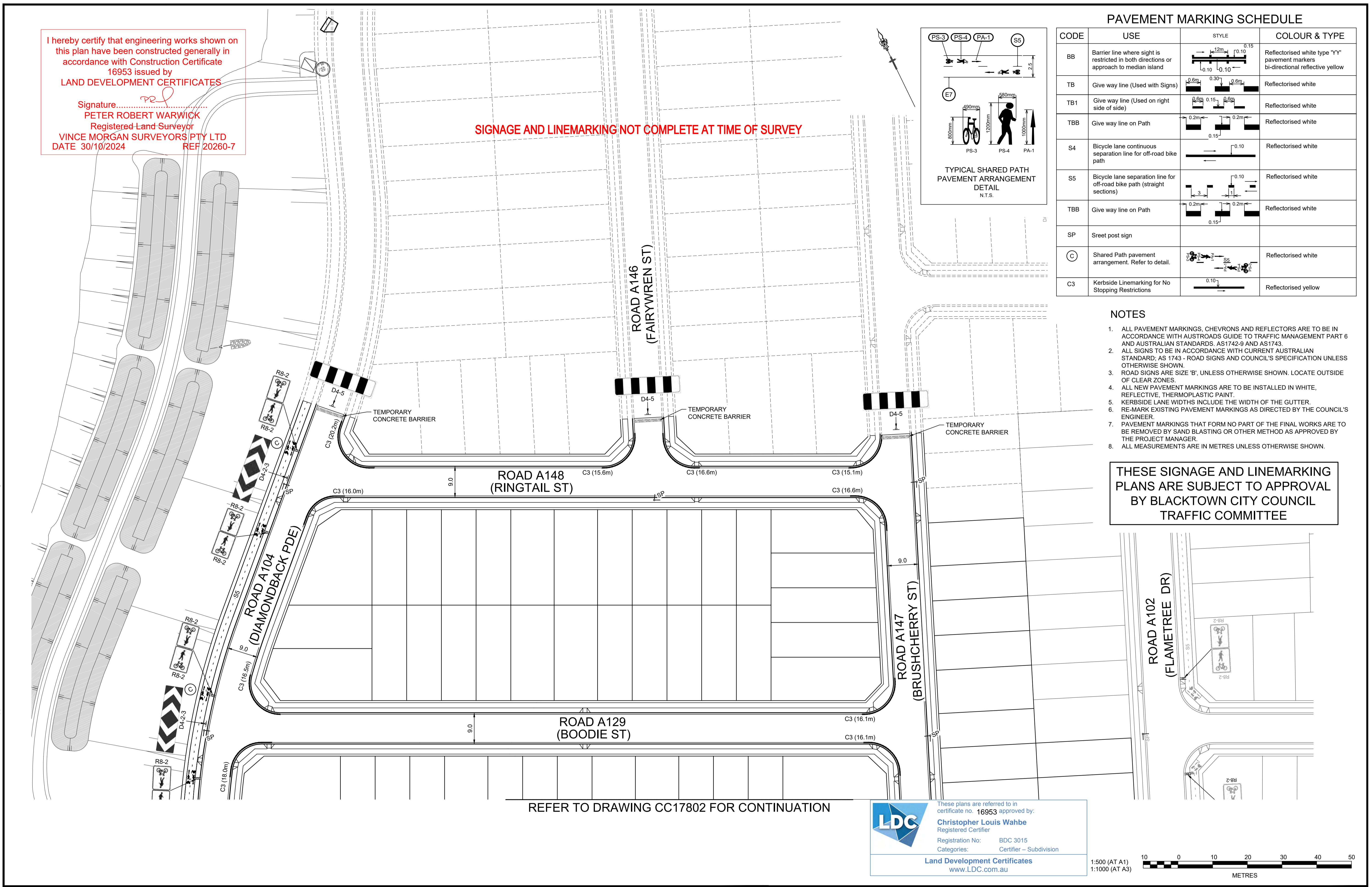
SIGNAGE AND LINEMARKING NOT COMPLETE AT TIME OF SURVEY



PAVEMENT MARKING SCHEDULE			
CODE	USE	STYLE	COLOUR & TYPE
BB	Barrier line where sight is restricted in both directions or approach to median island		Reflectorised white type 'YY' pavement markers bi-directional reflective yellow
TB	Give way line (Used with Signs)		Reflectorised white
TB1	Give way line (Used on right side of side)		Reflectorised white
TBB	Give way line on Path		Reflectorised white
S4	Bicycle lane continuous separation line for off-road bike path		Reflectorised white
S5	Bicycle lane separation line for off-road bike path (straight sections)		Reflectorised white
TBB	Give way line on Path		Reflectorised white
SP	Street post sign		
(C)	Shared Path pavement arrangement. Refer to detail.		Reflectorised white
C3	Kerbside Linemarking for No Stopping Restrictions		Reflectorised yellow

- NOTES**
- ALL PAVEMENT MARKINGS, CHEVRONS AND REFLECTORS ARE TO BE IN ACCORDANCE WITH AUSTRALIANS GUIDE TO TRAFFIC MANAGEMENT PART 6 AND AUSTRALIAN STANDARDS, AS1742-9 AND AS1743.
 - ALL SIGNS TO BE IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD; AS 1743 - ROAD SIGNS AND COUNCIL'S SPECIFICATION UNLESS OTHERWISE SHOWN.
 - ROAD SIGNS ARE SIZE 'B', UNLESS OTHERWISE SHOWN. LOCATE OUTSIDE OF CLEAR ZONES.
 - ALL NEW PAVEMENT MARKINGS ARE TO BE INSTALLED IN WHITE, REFLECTIVE, THERMOPLASTIC PAINT.
 - KERBSIDE LANE WIDTHS INCLUDE THE WIDTH OF THE GUTTER.
 - RE-MARK EXISTING PAVEMENT MARKINGS AS DIRECTED BY THE COUNCIL'S ENGINEER.
 - PAVEMENT MARKINGS THAT FORM NO PART OF THE FINAL WORKS ARE TO BE REMOVED BY SAND BLASTING OR OTHER METHOD AS APPROVED BY THE PROJECT MANAGER.
 - ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE SHOWN.

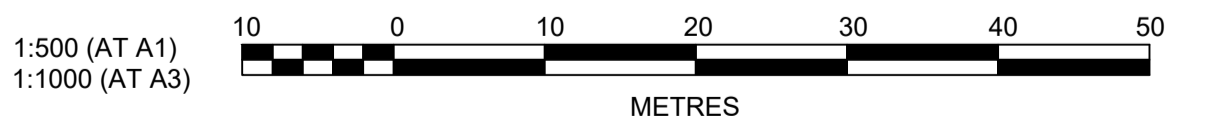
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REFER TO DRAWING CC17802 FOR CONTINUATION

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NEWPARK PRECINCT 7, STAGE 7J SIGNAGE & LINEMARKING PLAN SHEET 3

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC17803

PROJECT No: **9985-12**
 SHEET No: **CC17803**

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