

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....*PRJ*
 PETER ROBERT WARWICK
 Registered Land Surveyor

VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F



NEWPARK - PRECINCT 7 STAGE 7F SUBDIVISION WORKS CERTIFICATE

PROPOSED ROAD, LOTS AND DRAINAGE WORKS

COUNCIL REF: SPP-17-00046



IMAGE REF: METROMAP - 20/03/22

LOCALITY SKETCH



A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22	
	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:

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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**NEWPARK
 PRECINCT 7, STAGE 7F
 COVER SHEET**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC19001

PROJECT No: **9985-12**
 SHEET No: **CC19001**
 A

Plotted: 15 September, 2022 2:47:06 PM File Name: J:\9985\DWG - Construction Certificate Approval Plans\K12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19001.dwg

Plotted: 16 May, 2023 11:55:07 AM File Name: J:\9896D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9895-12-CC19002.dwg

LEGEND			
DESCRIPTION	PROPOSED	EXISTING	FUTURE
VEHICULAR CROSSING			
EXTENT OF WORKS			
KERB & GUTTER			
ROLL KERB			
PRAM RAMP			
DRAINAGE LINE, PIT & EASEMENT			
DRAINAGE LINE & PIT			
SUBSOIL			
HEADWALL			
CONTOURS			
KERB RETURN No			
ELECTRICITY, POWER POLE			
TELECOM, BOX			
WATER, STOP VALVE, HYDRANT			
SEWER, MANHOLE			
GAS			
STREET NAME SIGNS			
STATE SURVEY MARKS			
STAGE BOUNDARY			
CATCHMENT BOUNDARY			
FLOW DIRECTION ARROW			
EXISTING NATIVE VEGETATION			
NATIVE VEGETATION RETENTION			
INDICATIVE DRIVEWAYS LOCATIONS			
TREES TO BE REMOVED			
TREES TO BE RETAINED			

GENERAL NOTES

- ALL WORKS ARE TO BE IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S ENGINEERING GUIDE FOR DEVELOPMENT & "WORKS SPECIFICATION - CIVIL (CURRENT VERSION)".
- SURVEY MARKS: -
 - SURVEY MARKS SHOWN SHALL BE RETAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE SUPERINTENDENT MUST BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.
- THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST IF NECESSARY.
- THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE OWNERS. TO BE PROVIDED PRIOR TO THE APPROVAL OF THE PLANS.
- THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO ADJOINING PROPERTIES.
- NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT THE PRIOR APPROVAL OF COUNCIL'S ENGINEER.
- TREES TO BE RETAINED ON SITE SHALL BE PROTECTED BY SUITABLE STURDY APPROVED PROTECTIVE FENCING PRIOR TO COMMENCEMENT OF SITE WORKS.
- THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES, OUT-HOUSES, CAR BODIES AND DEBRIS ETC.
- FILLING IS TO BE FROM A NOMINATED SOURCE, OF SOUND CLEAN MATERIAL, FREE FROM LARGE ROCK, STUMPS, CONTAMINATED MATTER, INDUSTRIAL AND BUILDING WASTE, ORGANIC MATTER AND OTHER DEBRIS. PLACING OF FILLING ON THE PREPARED AREAS SHALL NOT COMMENCE UNTIL THE AUTHORITY TO DO SO HAS BEEN OBTAINED FROM THE COUNCIL.
- THE FILL MATERIAL THAT MAY BE RECEIVED AT THE DEVELOPMENT SITE ARE EXCAVATED NATURAL MATERIALS (VENM) AND EXCAVATED NATURAL MATERIAL (ENM) WITHIN THE MEANING OF THE PROTECTION OF THE ENVIRONMENTAL OPERATIONS ACT1997.
- SITE FILL AREAS: - THE CONTRACTOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
- ALL SITE FILLING TO BE COMPACTED TO 95% STANDARD COMPACTION AND SHALL BE CONTROLLED BY A REGISTERED SOIL LABORATORY IN ACCORDANCE WITH COUNCIL'S "WORKS SPECIFICATION".
- ALL SITE REGRADING AREAS SHALL BE GRADED AT A MINIMUM 1% TO THE ENGINEER'S REQUIREMENTS.
- SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED BY THE SUPERINTENDENT.
- ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.
- DIMENSIONS OF ANY DETAIL SHALL NOT BE SCALED - DIMENSIONS, IF IN DOUBT, SHALL BE VERIFIED BY THE SUPERINTENDENT.
- ALL CONSTRUCTION AND RESTORATION WORK ON COUNCIL'S ROAD AND FOOTPATH AREA ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED DRAWINGS AND COUNCIL'S STANDARD SPECIFICATIONS.
- ALL WORKS TO BE IN ACCORDANCE WITH THE SALINITY MANAGEMENT PLAN BY GEOTECH TESTING PTY LTD, REF: 852/1-AA DATED 12/10/2016.
- ALL STREET NAME POLES, LIGHT POLES AND BUS SHELTERS SHALL BE BLACK POWDER COATED IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S ENGINEERING GUIDE FOR DEVELOPMENT.
- CONCRETE PATH PAVING MUST NOT BE PLACED UNTIL 80% OF LOTS HAVE BEEN BUILT UPON OR UNTIL APPROVED IN WRITING BY COUNCIL.
- THE HOURS OF ANY OFFENSIVE NOISE-GENERATING DEVELOPMENT WORKS SHALL BE LIMITED TO BETWEEN 7.00am TO 5.00pm, MONDAYS TO FRIDAYS; 8.00am TO 1.00pm, SATURDAYS; AND NO SUCH WORK TO BE UNDERTAKEN AT ANY TIME ON SUNDAY OR PUBLIC HOLIDAYS.
- CONTRACTOR TO INSTALL STANDARD RESIDENTIAL LAYBACKS ON KERB AND GUTTER WHERE SHOWN ON PLANS TO BLACKTOWN CITY COUNCIL STANDARD DRAWING A(BS) 1015 AND BS/1025.

SURFACE NOTES

- BATTER SLOPES ARE TYPICALLY 1v:5h UNLESS NOTED OTHER WISE.
- EXISTING SURFACE BASED ON BULK EARTHWORKS SURFACE REFER TO JWP PLANS 998510CC00-84.

SURVEY SET OUT INFORMATION NOTES:

- ALL SITE SET OUT AND CONTROL POINTS ARE TO BE CERTIFIED BY A REGISTERED SURVEYOR.
- THE INFORMATION DETAILED ON THE CERTIFIED CONSTRUCTION CERTIFICATE PLANS TAKES PRECEDENCE OVER ALL ELECTRONIC INFORMATION PROVIDED. THE ORDER OF PRIORITY FOR USE OF ALL INFORMATION PROVIDED IS AS FOLLOWS:
 - CERTIFIED CONSTRUCTION CERTIFICATE DRAWINGS
 - 2D DRAFTING BASE (ELECTRONIC FILE)
 - 3D DTM (ELECTRONIC FILE)
- ANY DISCREPANCY BETWEEN ANY OF THE INFORMATION CONTAINED WITHIN THESE FILES IS TO BE BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT PRIOR TO CONSTRUCTION WHO WILL SEEK CLARIFICATION AND ISSUE INSTRUCTIONS ON THE APPROPRIATE COURSE OF ACTION.



UTILITIES SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTORS ARE RESPONSIBLE TO LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES & STANDARDS.

NOTE: UTILITIES SHOWN MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS

STORMWATER NOTES

- STORMWATER DESIGN CRITERIA:
 - ANNUAL EXCEEDANCE PROBABILITY (AEP):
 - 1% AEP MAJOR SYSTEM
 - 5% AEP MINOR SYSTEM (COMMERCIAL) AND INTERALLOTMENT DRAINAGE
 - 10% AEP MINOR SYSTEM
- PIPES TO BE INSTALLED TO TYPE HS2 SUPPORT IN ACCORDANCE WITH AS 3725 (1989) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 300mm LAYERS TO MINIMUM 100% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- GRATES AND COVERS SHALL CONFORM TO AS 3996.
- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- DRAINAGE LINES UNDER ROADS SHALL BE BACKFILLED WITH NON-COHESIVE SAND AND HAVE 3m (AS PER BCC GUIDE) OF SUBSOIL DRAIN WRAPPED IN APPROVED FILTER SOCK, DISCHARGING INTO DOWN STREAM PITS. FOR PIPELINES GREATER THAN 525Ø, SUBSOIL DRAIN SHALL BE PROVIDED ON BOTH SIDES OF THE TRENCH.
- ALL STORMWATER PIPES WITHIN ROADS TO BE REINFORCED CONCRETE PIPE (RRJ) CLASS 2 OR FRC CLASS 2 UNLESS NOTED OTHERWISE.
- DRAINAGE LINES ON PLANS ARE DIAGRAMMATIC ONLY AND PIPE CENTRELINES SHALL ENTER AND EXIT PITS AT THE CENTRE OF THE RESPECTIVE PIT WALLS.
- STEP IRONS REQUIRED WHERE THE PIT EXCEEDS 900 IN DEPTH. REFER TO COUNCIL DRAWING A(BS)1115
- PROVIDE A ROOF WATER OUTLET TO THE KERB FOR EACH LOT THAT DRAINS TO STREET.
- ALL SPECIAL PITS, PITS DEEPER THAN 2m OR NON STANDARD DRAINAGE PITS CAN BE EITHER CAST INSITU WITH STRUCTURAL DESIGN AND CERTIFICATION BY OTHERS. OR "AUS PIT" CUSTOM MADE PRECAST PIT OR SIMILAR APPROVED.
- 1% AEP FLOW PATHS TO BE FORMED AT TIME OF CONSTRUCTION.

CUSTOM MADE PRECAST PIT NOTES

- DESIGN DOCUMENTATION REFLECTS PRECAST DRAINAGE PITS BEING USED FOR THE SITE. UNLESS NOTED OTHERWISE. AUSPITS OR SIMILAR APPROVED CUSTOM MADE PRECAST PITS TO BE USED.
- PITS TO COMPLY WITH THE FOLLOWING PARAMETERS:
 - ARE SPECIFICALLY MANUFACTURED FOR THE PROJECT.
 - EACH PIT IS ACCOMPANIED BY A CERTIFICATE OF STRUCTURAL ADEQUACY SIGNED BY A NPER ENGINEER (STRUCTURAL)
 - THE STRUCTURAL CERTIFICATION OF THE PITS SHOULD INCLUDE ANY ADDITIONAL PRECAST ELEMENTS REQUIRED TO BRING THE PIT UP TO FINAL LEVELS ON SITE.
 - PITS MUST BE FIRMLY BEDDED ON SOUND MATERIAL.
 - CONCRETE IS TO BE POURED AROUND THE BASE TO AID IN STABILISATION OF THE PIT. PIT FLOORS ARE TO HAVE A 1% FALL TOWARDS THE OUTLET PIPE.
 - ANY PIT REQUIRING MODIFICATION AFTER IT HAS BEEN POURED IN THE FACTORY OR DAMAGED IN TRANSPORT CANNOT BE USED.
 - ALL WORK TO BE TO THE SATISFACTION OF COUNCIL'S DEVELOPMENT INSPECTORS.
- SHOULD THE CONTRACTOR CHOOSE TO CONSTRUCT ANY PIT AS "CAST-INSITU", IT'S THE CONTRACTORS RESPONSIBILITY TO PROVIDE DETAILED PIT DRAWINGS AND STRUCTURAL CERTIFICATION OF THE RELEVANT PITS.

HYDROLOGY NOTES:

- STORMWATER SYSTEM DESIGNED USING 12D DYNAMIC (ILSAX) SYSTEM.
- XP LINES ARE DUMMY PITS AND ARE USED TO MORE ACCURATELY DETERMINE APPROACH FLOWS AT UPSTREAM PITS AND SAG LOCATIONS.
- MAXIMUM FLOW WIDTHS OF 2.0m IN GUTTERS HAVE GENERALLY BEEN ADOPTED HOWEVER EXTENDED TO 2.5m IN SOME LOCATIONS TO REDUCE THE NUMBER OF PITS REQUIRED DUE TO FLAT ROAD GRADES.

UNEXPECTED FINDS - CONTAMINATION:

IN THE EVENT OF AN UNEXPECTED FINDS, ALL WORKS SHALL CEASE AND THE SITE FOREMAN SHALL CONTACT THE CERTIFYING AUTHORITY AND A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT TO CONDUCT AN ASSESSMENT. APPROPRIATE MEASURES SHALL BE IMPLEMENTED ON THE BASIS OF THE ASSESSMENT INCLUDING BUT NOT LIMITED TO ISOLATION OF THE SITE, FURTHER INVESTIGATION AND ENVIRONMENTAL CONTROLS TO MINIMISE THE POTENTIAL MIGRATION OF CONTAMINANTS FROM THE IMPACTED AREA. AFFECTED AREAS CAN ONLY BE REOPENED SUBJECT TO A CLEARANCE OF THE LOCATION AND ISSUANCE OF A REPORT BY THE ENVIRONMENTAL CONSULTANT.

ANY SUSPECTED ASBESTOS CONTAINING SHOULD BE LEFT IN PLACE AND NOT DISTURBED. THE ENVIRONMENTAL CONSULTANT SHALL ORGANISE FOR FURTHER INVESTIGATION PURPOSES AND SUBSEQUENT REMOVAL BY AN APPROPRIATE LICENSED CONTRACTOR.

ANY UNEXPECTED FINDS ENCOUNTERED SHOULD BE LISTED ON A UFP REGISTER, WHICH SHOULD INCLUDE THE ACTION TAKEN AND THE STATUS OF THE UNEXPECTED FIND. PRIOR TO CLOSING OUT AN UNEXPECTED FIND IT WILL BE IMPORTANT TO ENSURE THE APPROPRIATE DOCUMENTATION IS OBTAINED SUCH AS PHOTOGRAPHS, THE UFP FORM, WASTE CLASSIFICATION LETTER(S) AND VALIDATION REPORT OR LETTER.

CIVIL PLAN INDEX		
PLAN NO.	PLAN NAME	REV
9985-12-CC19001	COVER SHEET	A
9985-12-CC19002	LEGEND, NOTES & INDEX	G
9985-12-CC19003	OVERALL SITE PLAN	A
9985-12-CC19004	SETOUT PLAN	A
9985-12-CC19005	PAVEMENT PLAN	A
9985-12-CC19006	TYPICAL SECTIONS	A
-	-	-
9985-12-CC19010	CUT & FILL PLAN	B
9985-12-CC19011	ENGINEERING PLAN SHEET 1	D
9985-12-CC19012	ENGINEERING PLAN SHEET 2	E
-	-	0
9985-12-CC19101	ROAD LONGITUDINAL SECTIONS	A
-	-	-
9985-12-CC19201	ROAD CROSS SECTIONS SHEET 1	A
9985-12-CC19202	ROAD CROSS SECTIONS SHEET 2	A
-	-	-
9985-12-CC19401	OVERALL CATCHMENT PLAN	A
9985-12-CC19402	CATCHMENT PLAN SHEET 1	C
9985-12-CC19403	CATCHMENT PLAN SHEET 2	C
-	-	-
9985-12-CC19410	PIT SCHEDULE & DETAILS	D
9985-12-CC19411	DRAINAGE CALCULATIONS SHEET 1	D
9985-12-CC19412	DRAINAGE CALCULATIONS SHEET 2	B
9985-12-CC19413	DRAINAGE CALCULATIONS SHEET 3	D
-	-	-
9985-12-CC19420	DRAINAGE LONGITUDINAL SECTIONS SHEET 1	A
9985-12-CC19421	DRAINAGE LONGITUDINAL SECTIONS SHEET 2	D
9985-12-CC19422	DRAINAGE LONGITUDINAL SECTIONS SHEET 3	D
9985-12-CC19423	DRAINAGE LONGITUDINAL SECTIONS SHEET 4	D
9985-12-CC19424	DRAINAGE LONGITUDINAL SECTIONS SHEET 5	B
9985-12-CC19425	DRAINAGE LONGITUDINAL SECTIONS SHEET 6	B
-	-	-
9985-12-CC19450	SPECIAL PIT DETAILS	B
-	-	-
9985-12-CC19500	RETAINING WALL PLAN	B
9985-12-CC19501	RETAINING WALL PLAN SECTIONS SHEET 1	B
9985-12-CC19502	RETAINING WALL PLAN SECTIONS SHEET 2	C
-	-	-
9985-12-CC19700	SOIL & WATER MANAGEMENT NOTES	B
9985-12-CC19701	SOIL & WATER MANAGEMENT PLAN SHEET 1	C
9985-12-CC19702	SOIL & WATER MANAGEMENT PLAN SHEET 2	C
-	-	-
9985-12-CC19800	SIGNAGE & LINEMARKING PLAN	C
9985-12-CC19900	TREE REMOVAL PLAN	B

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F

SURVEYED BY:
 VMS PTY LTD
 CAD REFERENCE: 20260-MASTER-140920.dxf
 DATE RECEIVED: 14/9/20

LOT BOUNDARIES CALCULATED BY VMS
 CAD REFERENCE: 7ef-dp-210122.dwg
 DATE RECEIVED: 20/01/22



AMENDMENT	DES	DRN	CKD	APR	DATE	
G	INDEX UPDATED	KE	DG	MS	MS	16/05/23
F	INDEX REVISED CC19502	KE	KE	MS	MS	21/02/23
E	INDEX UPDATED	KE	JM	MS	MS	17/02/23
D	DRAWING INDEX UPDATED	KE	KE	MS	MS	09/01/23
C	DRAWING INDEX UPDATED	DG	DG	KE	KE	29/11/22
B	DRAWING INDEX UPDATED	DG	NJ	KE	KE	28/09/22
A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22

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 7F
 LEGEND, NOTES & INDEX

PROJECT No: **9985-12**
 SHEET No: **CC19002**

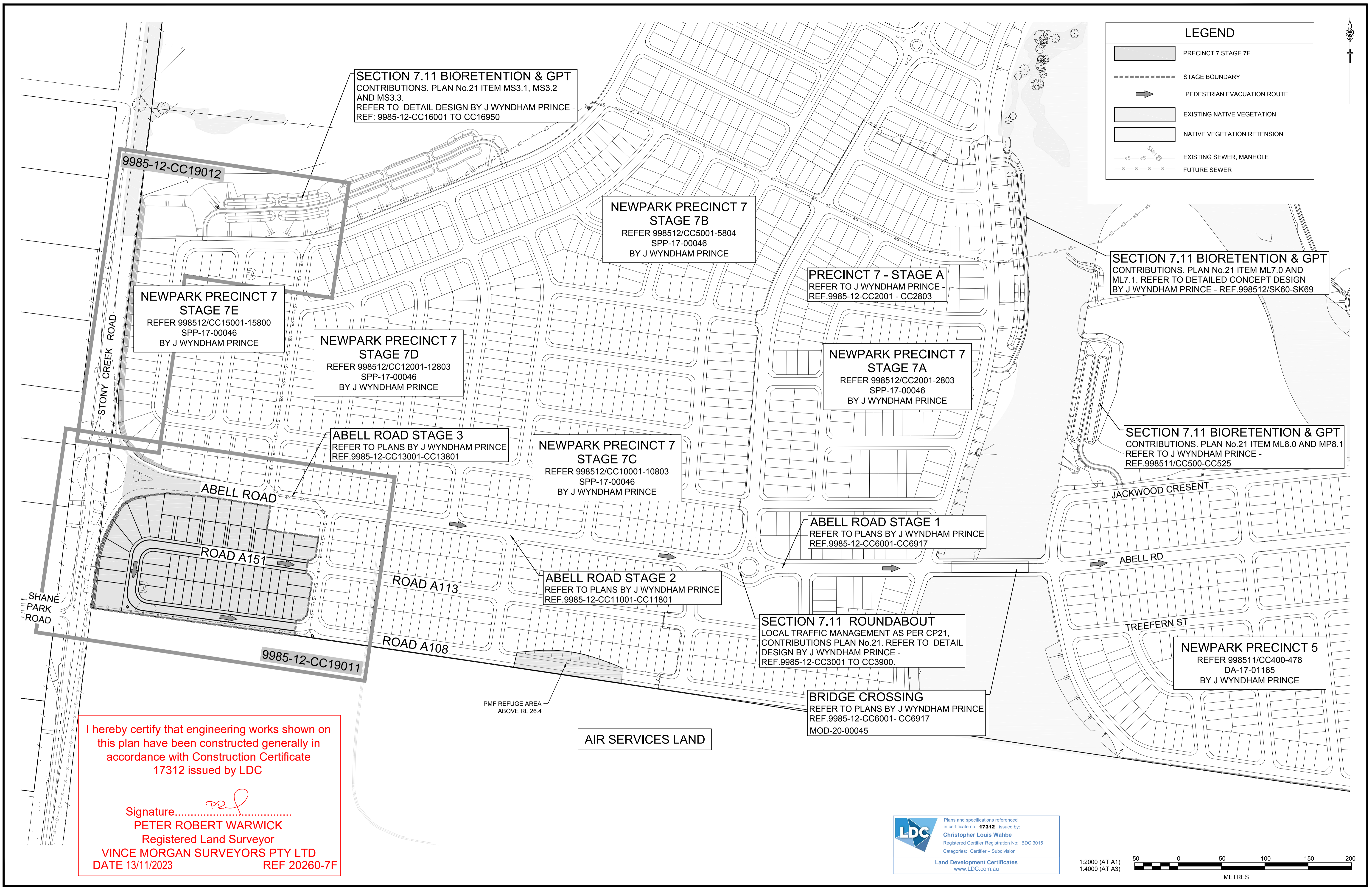
PLAN No: **9985-12-CC19002**

PROJECT No: **9985-12**
 SHEET No: **CC19002**

DATE RECEIVED: 14/9/20

DATE RECEIVED: 20/01/22

AZIMUTH: M.G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC19002	G
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LEGEND

- PRECINCT 7 STAGE 7F
- STAGE BOUNDARY
- PEDESTRIAN EVACUATION ROUTE
- EXISTING NATIVE VEGETATION
- NATIVE VEGETATION RETENTION
- EXISTING SEWER, MANHOLE
- FUTURE SEWER

SECTION 7.11 BIORETENTION & GPT CONTRIBUTIONS. PLAN No.21 ITEM MS3.1, MS3.2 AND MS3.3. REFER TO DETAIL DESIGN BY J WYNDHAM PRINCE - REF: 9985-12-CC16001 TO CC16950

NEWPARK PRECINCT 7 STAGE 7B
REFER 998512/CC5001-5804
SPP-17-00046
BY J WYNDHAM PRINCE

PRECINCT 7 - STAGE A
REFER TO J WYNDHAM PRINCE - REF.9985-12-CC2001 - CC2803

SECTION 7.11 BIORETENTION & GPT CONTRIBUTIONS. PLAN No.21 ITEM ML7.0 AND ML7.1. REFER TO DETAILED CONCEPT DESIGN BY J WYNDHAM PRINCE - REF.998512/SK60-SK69

NEWPARK PRECINCT 7 STAGE 7E
REFER 998512/CC15001-15800
SPP-17-00046
BY J WYNDHAM PRINCE

NEWPARK PRECINCT 7 STAGE 7D
REFER 998512/CC12001-12803
SPP-17-00046
BY J WYNDHAM PRINCE

NEWPARK PRECINCT 7 STAGE 7A
REFER 998512/CC2001-2803
SPP-17-00046
BY J WYNDHAM PRINCE

SECTION 7.11 BIORETENTION & GPT CONTRIBUTIONS. PLAN No.21 ITEM ML8.0 AND MP8.1 REFER TO J WYNDHAM PRINCE - REF.998511/CC500-CC525

ABELL ROAD STAGE 3
REFER TO PLANS BY J WYNDHAM PRINCE REF.9985-12-CC13001-CC13801

NEWPARK PRECINCT 7 STAGE 7C
REFER 998512/CC10001-10803
SPP-17-00046
BY J WYNDHAM PRINCE

ABELL ROAD STAGE 1
REFER TO PLANS BY J WYNDHAM PRINCE REF.9985-12-CC6001-CC6917

ABELL ROAD STAGE 2
REFER TO PLANS BY J WYNDHAM PRINCE REF.9985-12-CC11001-CC11801

SECTION 7.11 ROUNDABOUT LOCAL TRAFFIC MANAGEMENT AS PER CP21, CONTRIBUTIONS PLAN No.21. REFER TO DETAIL DESIGN BY J WYNDHAM PRINCE - REF.9985-12-CC3001 TO CC3900.

NEWPARK PRECINCT 5
REFER 998511/CC400-478
DA-17-01165
BY J WYNDHAM PRINCE

BRIDGE CROSSING
REFER TO PLANS BY J WYNDHAM PRINCE REF.9985-12-CC6001- CC6917
MOD-20-00045

PMF REFUGEE AREA ABOVE RL 26.4

AIR SERVICES LAND

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Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 13/11/2023 REF 20260-7F

LDC Plans and specifications referenced in certificate no. 17312 issued by:
Christopher Louis Wahbe
Registered Certifier Registration No: BDC 3015
Categories: Certifier - Subdivision
Land Development Certificates
www.LDC.com.au

1:2000 (AT A1)
1:4000 (AT A3)
50 0 50 100 150 200
METRES

A	ISSUE FOR SWC APPROVAL								
	AMENDMENT	DES	DRN	CKD	APR	DATE			
		DG	NDW	KE	MS	08/06/22			

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NEWPARK PRECINCT 7, STAGE 7F OVERALL SITE PLAN

PROJECT No:
9985-12
SHEET No:
CC19003
PLAN No: 9985-12-CC19003

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH
0	294981.25	6268883.93	245°18'19.04"		
7.4	294974.52	6268880.84	245°18'19.04"		
15.87	294968.62	6268877.21		30	16.93
24.33	294958	6268878.36	277°38'19.92"		
197.49	294786.38	6268801.38	277°38'19.92"		
213.34	294766.28	6268804.08		20	31.69
229.18	294769.25	6268624.13	8°24'49.73"		
262.11	294774.07	6268656.7	8°24'49.73"		
277.81	294776.99	6268676.49		20	31.42
293.52	294796.78	6268673.56	98°24'49.73"		
485.87	294987.06	6268645.42	98°24'49.73"		

NOTE: LIMIT OF WORKS CH24.331 TO CH470.000

NEWPARK PRECINCT 7
STAGE 7E
REFER TO 9985-12-CC15001-15800
BY J WYNDHAM PRINCE

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ABELL ROAD

NEWPARK PRECINCT 7
STAGE 7D
REFER TO
9985-12-CC12001-12803
BY J WYNDHAM PRINCE

HYSSOP CR
ROAD A151

OPAH ST
ROAD A113

HYSSOP CR
ROAD A151

GARGANEY PDE
ROAD A108

STONY CREEK ROAD

SHANE PARK ROAD

AIR SERVICES LAND

NOTES:

- SSM & CONTROLS TO BE PROVIDED AT CONSTRUCTION STAGE BY VINCE MORGAN SURVEYORS.

LDC Plans and specifications referenced in certificate no. **17312** issued 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)
10 0 10 20 30 40 50
METRES

Plotted: 15 September, 2022 2:48:09 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19004.dwg

NO.	DESCRIPTION	DES	DRN	CKD	APR	DATE
A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22
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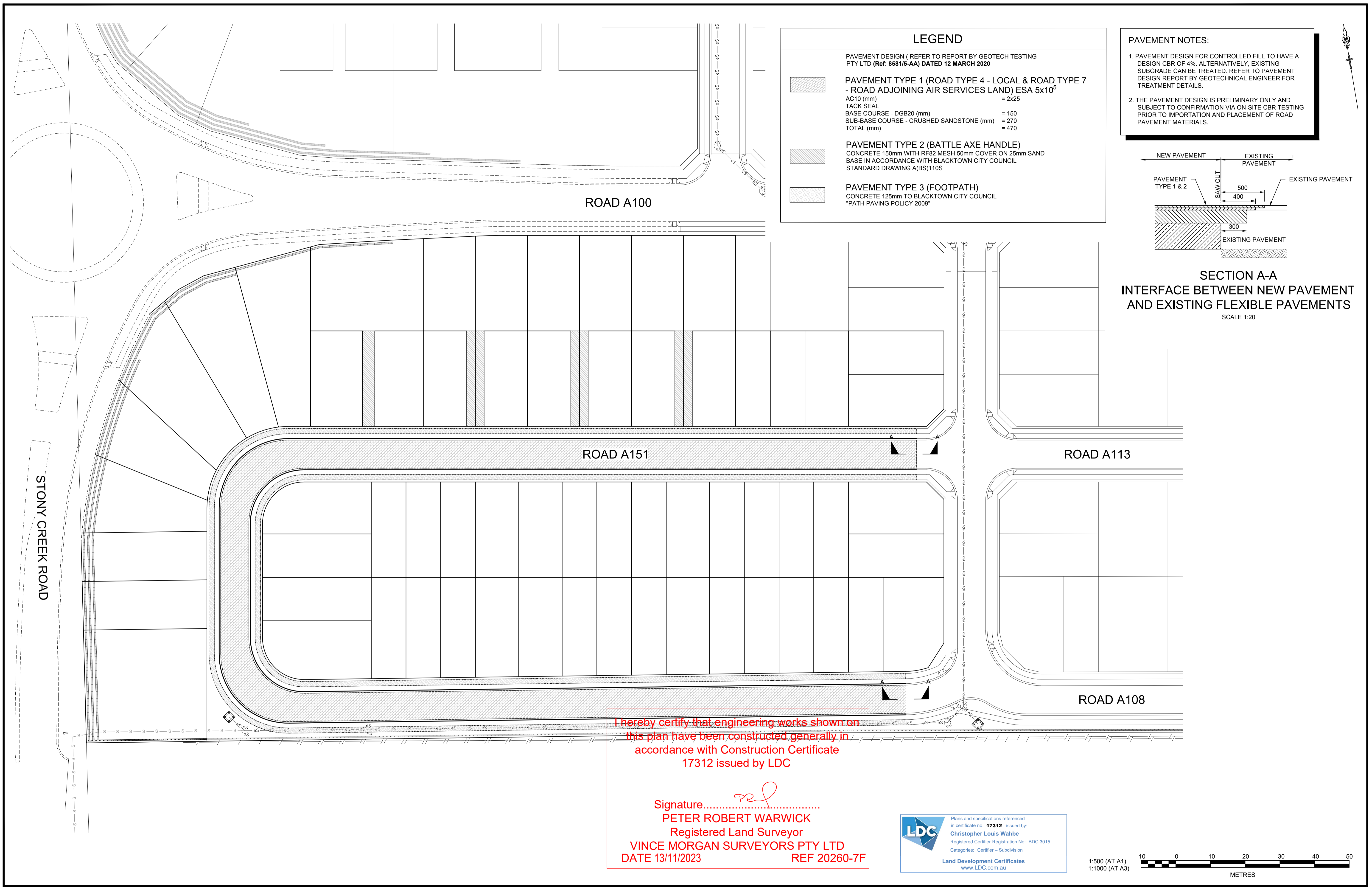
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NEWPARK PRECINCT 7, STAGE 7F
SETOUT PLAN
AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC19004

PROJECT No:
9985-12
SHEET No:
CC19004
A

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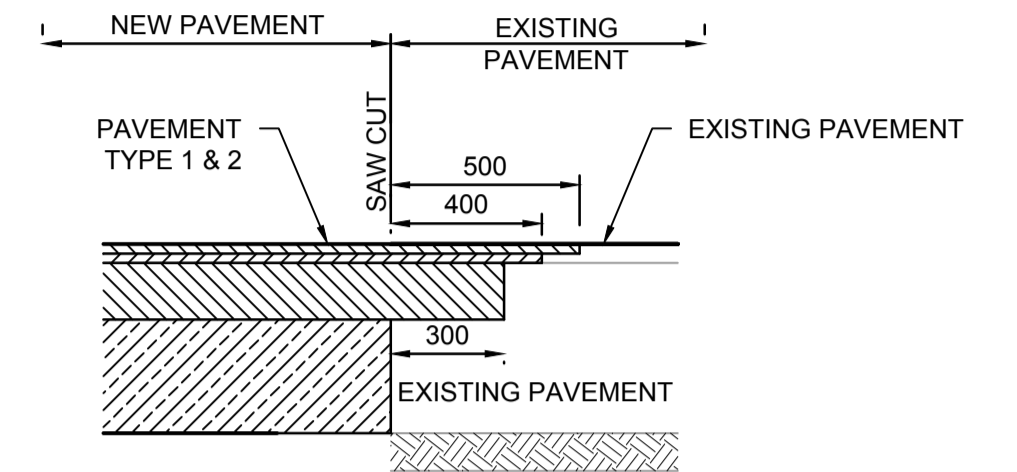
LEGEND

PAVEMENT DESIGN (REFER TO REPORT BY GEOTECH TESTING PTY LTD (Ref: 8581/5-AA) DATED 12 MARCH 2020)

- PAVEMENT TYPE 1 (ROAD TYPE 4 - LOCAL & ROAD TYPE 7 - ROAD ADJOINING AIR SERVICES LAND) ESA 5x10⁵**
 AC10 (mm) = 2x25
 TACK SEAL
 BASE COURSE - DGB20 (mm) = 150
 SUB-BASE COURSE - CRUSHED SANDSTONE (mm) = 270
 TOTAL (mm) = 470
- PAVEMENT TYPE 2 (BATTLE AXE HANDLE)**
 CONCRETE 150mm WITH RF82 MESH 50mm COVER ON 25mm SAND
 BASE IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL STANDARD DRAWING A(BS)110S
- PAVEMENT TYPE 3 (FOOTPATH)**
 CONCRETE 125mm TO BLACKTOWN CITY COUNCIL "PATH PAVING POLICY 2009"

PAVEMENT NOTES:

- PAVEMENT DESIGN FOR CONTROLLED FILL TO HAVE A DESIGN CBR OF 4%. ALTERNATIVELY, EXISTING SUBGRADE CAN BE TREATED. REFER TO PAVEMENT DESIGN REPORT BY GEOTECHNICAL ENGINEER FOR TREATMENT DETAILS.
- THE PAVEMENT DESIGN IS PRELIMINARY ONLY AND SUBJECT TO CONFIRMATION VIA ON-SITE CBR TESTING PRIOR TO IMPORTATION AND PLACEMENT OF ROAD PAVEMENT MATERIALS.

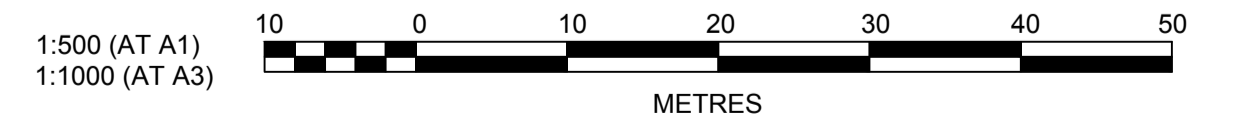


SECTION A-A
INTERFACE BETWEEN NEW PAVEMENT
AND EXISTING FLEXIBLE PAVEMENTS
 SCALE 1:20

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F

Plans and specifications referenced in certificate no. **17312** issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
www.LDC.com.au



A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS
AMENDMENT	DES	DRN	CKD	APR	DATE
					08/06/22

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

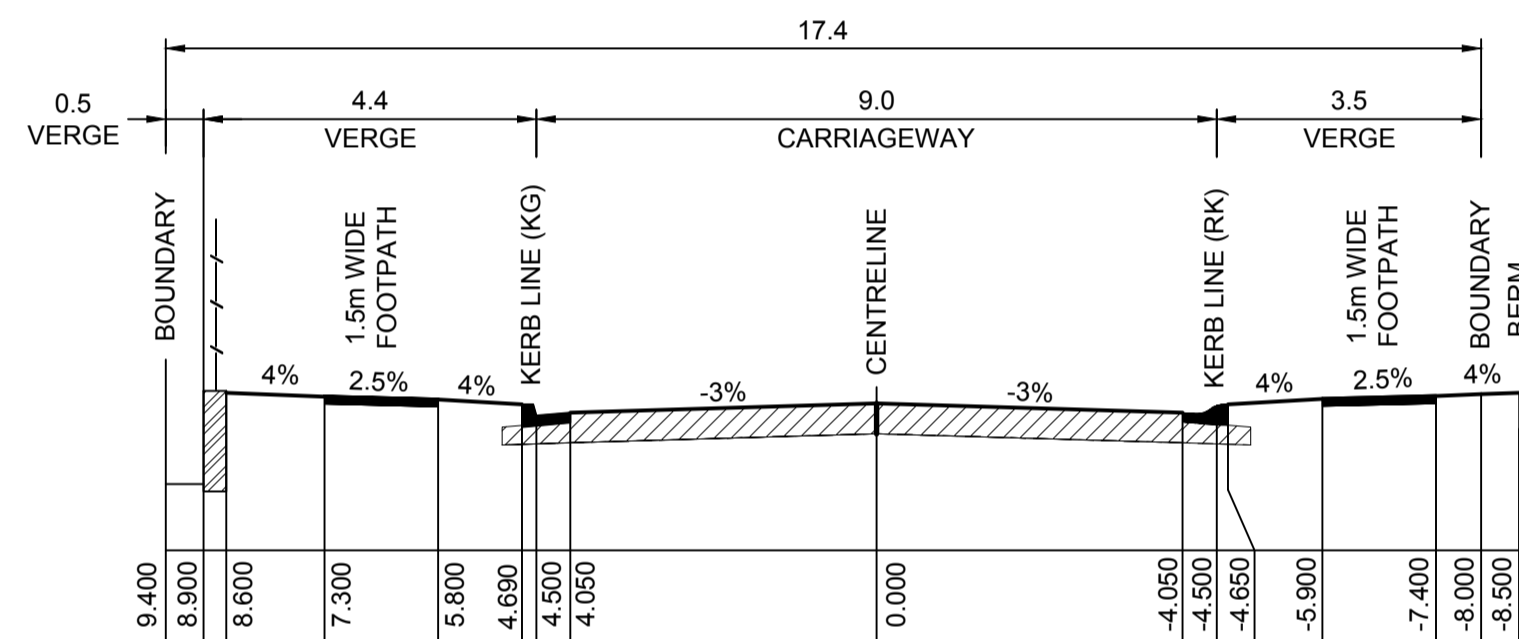
CLIENT:
WINTER PROPERTY GROUP

ISSUE FOR CONSTRUCTION APPROVAL
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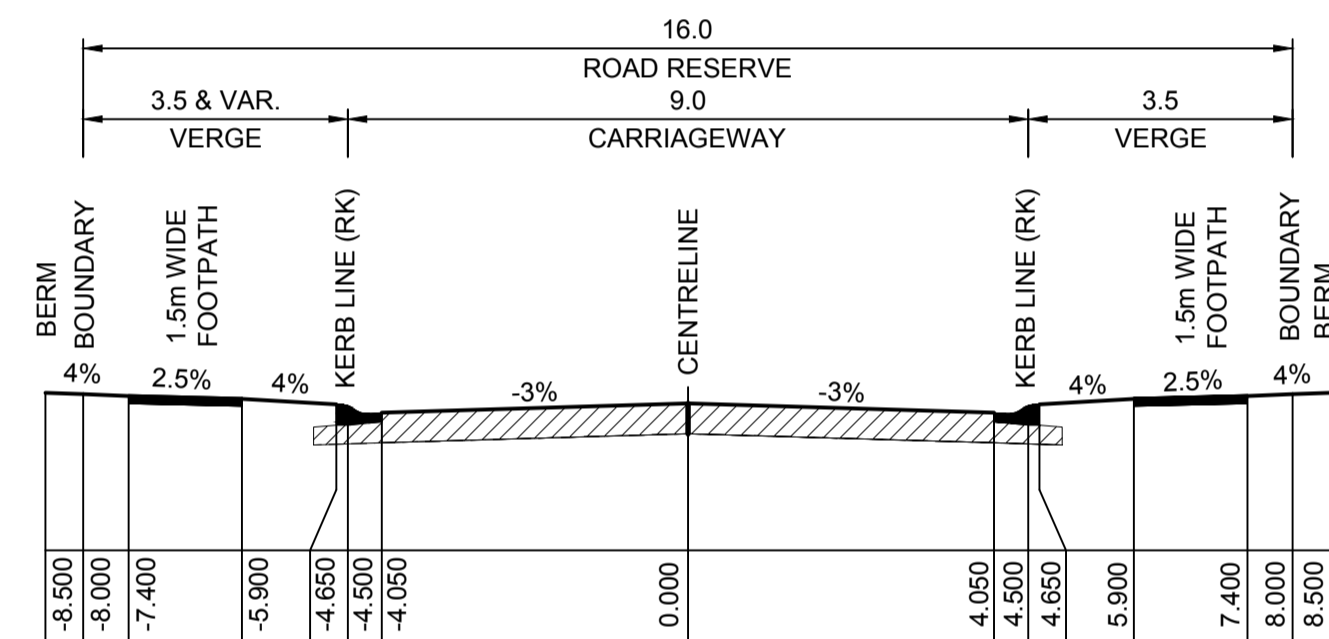
NEWPARK PRECINCT 7, STAGE 7F PAVEMENT PLAN

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC19005

PROJECT No: **9985-12**
 SHEET No: **CC19005**
 A



**TYPE 7 - ROAD ADJOINING
AIR SERVICES LAND**
ROAD A151- (CH 24.331 - CH 197.494)
1:100 NATURAL



TYPE 4 - LOCAL ROAD
ROAD A151 - (CH 197.494 TO CH 470.000)
1:100 NATURAL

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
Registered Land Surveyor

VINCE MORGAN SURVEYORS PTY LTD
DATE 13/11/2023 REF 20260-7F



Plotted: 15 September, 2022 2:46:57 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19006.dwg

A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22
	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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**NEWPARK
PRECINCT 7, STAGE 7F
TYPICAL SECTIONS**

PROJECT No:
9985-12
SHEET No:
CC19006

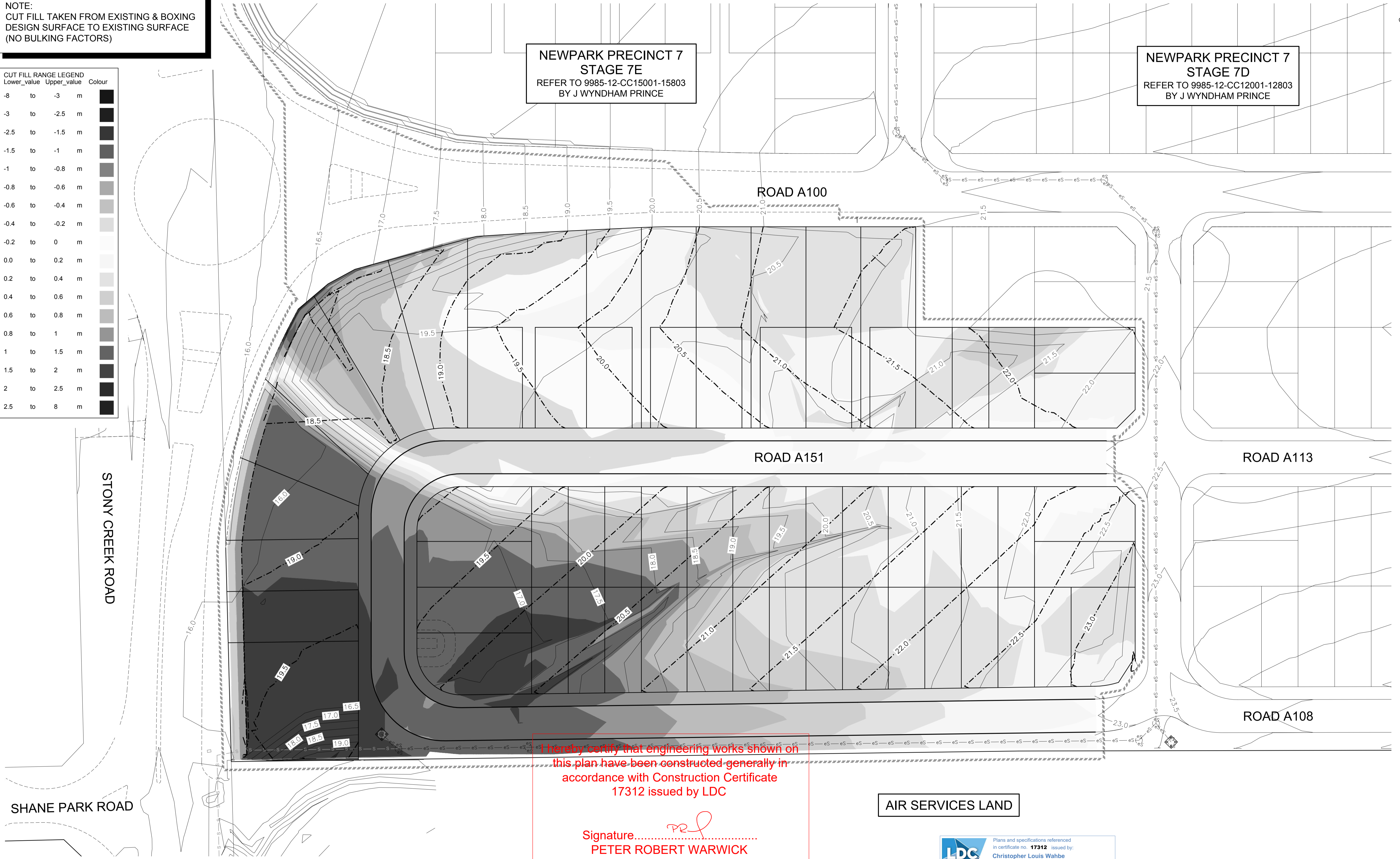
AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC19006 A

NOTE:
CUT FILL TAKEN FROM EXISTING & BOXING
DESIGN SURFACE TO EXISTING SURFACE
(NO BULKING FACTORS)

Lower_value	Upper_value	Colour		
-8	to	-3	m	
-3	to	-2.5	m	
-2.5	to	-1.5	m	
-1.5	to	-1	m	
-1	to	-0.8	m	
-0.8	to	-0.6	m	
-0.6	to	-0.4	m	
-0.4	to	-0.2	m	
-0.2	to	0	m	
0.0	to	0.2	m	
0.2	to	0.4	m	
0.4	to	0.6	m	
0.6	to	0.8	m	
0.8	to	1	m	
1	to	1.5	m	
1.5	to	2	m	
2	to	2.5	m	
2.5	to	8	m	

NEWPARK PRECINCT 7
STAGE 7E
REFER TO 9985-12-CC15001-15803
BY J WYNDHAM PRINCE

NEWPARK PRECINCT 7
STAGE 7D
REFER TO 9985-12-CC12001-12803
BY J WYNDHAM PRINCE

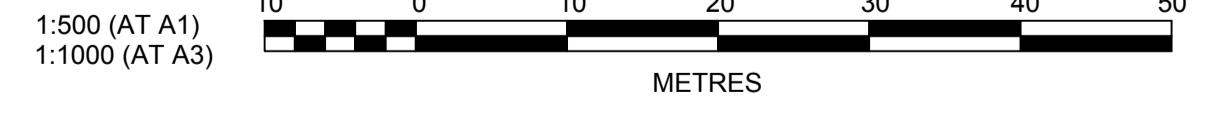


I hereby certify that engineering works shown on
this plan have been constructed generally in
accordance with Construction Certificate
17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 13/11/2023 REF 20260-7F

AIR SERVICES LAND

LDC
Plans and specifications referenced
in certificate no. **17312** issued by:
Christopher Louis Wahbe
Registered Certifier Registration No: BDC 3015
Categories: Certifier - Subdivision
Land Development Certificates
www.LDC.com.au



Plotted: 17 February 2023 12:17:21 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19010.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
B	KE	JM	MS	MS	17/02/23
A	DG	NDW	KE	MS	08/06/22

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:
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NEWPARK PRECINCT 7, STAGE 7F CUT & FILL PLAN

PROJECT No:
9985-12
SHEET No:
CC19010

AZIMUTH: M.G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC19010	B
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REFER TO DRAWING CC19012 FOR CONTINUATION

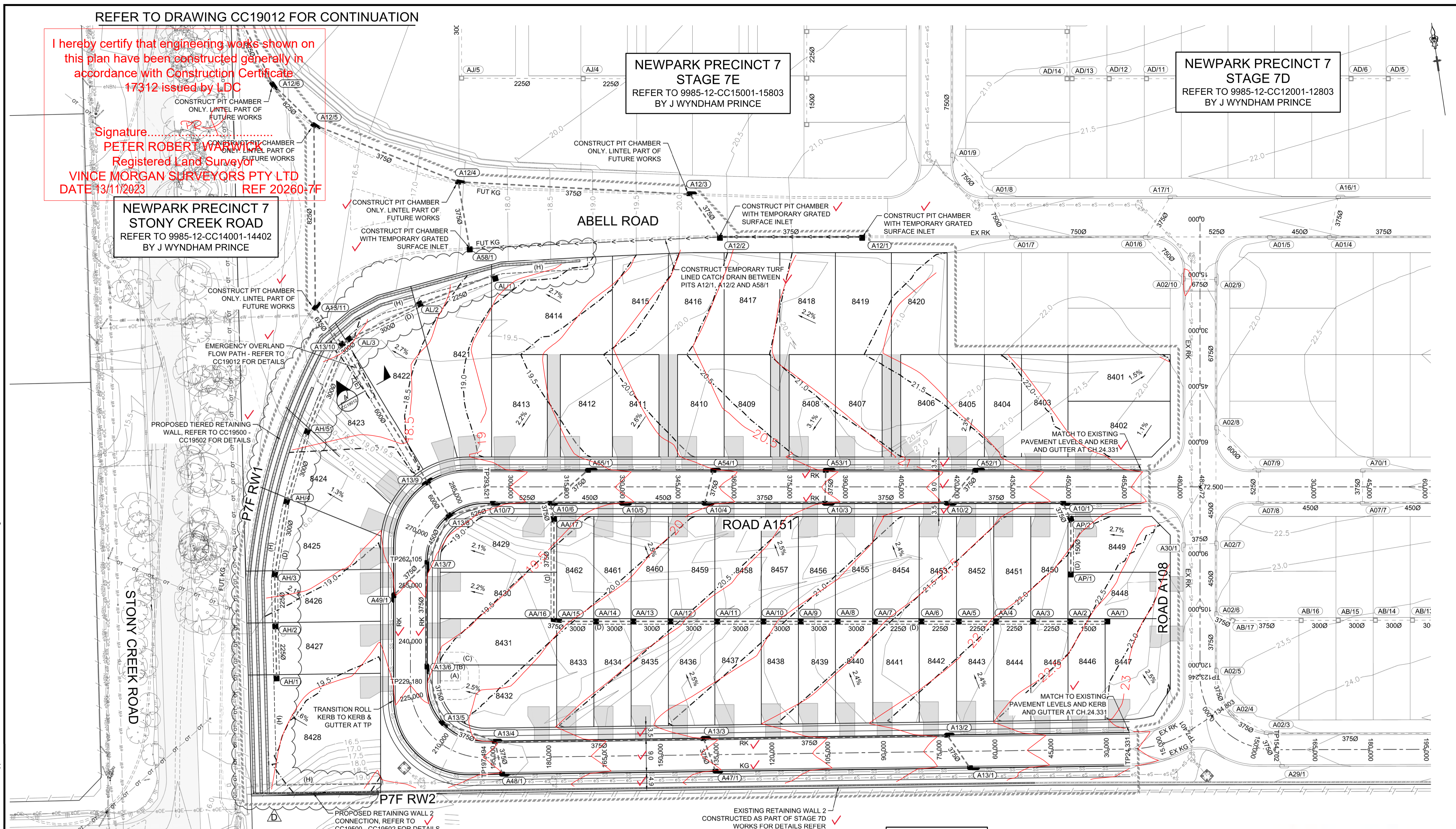
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F

**NEWPARK PRECINCT 7
 STONY CREEK ROAD**
 REFER TO 9985-12-CC14001-14402
 BY J WYNDHAM PRINCE

**NEWPARK PRECINCT 7
 STAGE 7E**
 REFER TO 9985-12-CC15001-15803
 BY J WYNDHAM PRINCE

**NEWPARK PRECINCT 7
 STAGE 7D**
 REFER TO 9985-12-CC12001-12803
 BY J WYNDHAM PRINCE



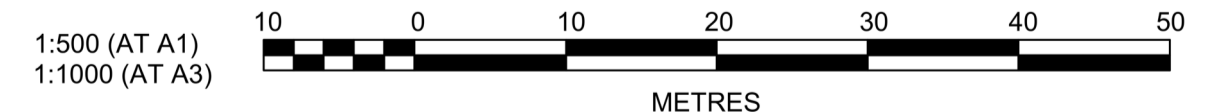
- EASEMENT NOTES**
- (A) EASEMENT FOR PADMOUNT STATION 2.75m x 5.5m AND VARIABLE.
 - (B) RESTRICTION ON THE USE OF LAND IN RELATION TO FIRE RATINGS OF BUILDINGS MEASURED 3m FROM THE SUBSTATION PLINTH.
 - (C) RESTRICTION ON THE USE OF LAND IN RELATION TO SWIMMING POOLS MEASURED 5m FROM THE SUBSTATION PLINTH.
 - (D) EASEMENT FOR DRAINAGE 1.5m WIDE.
 - (E) EASEMENT FOR DRAINAGE 2.5m WIDE.
 - (H) EASEMENT FOR SUPPORT, VARIABLE WIDTH



WARNING!
 UNDERGROUND SERVICE CABLES IN VICINITY. EXERCISE EXTREME CAUTION DURING EXCAVATION. CONTACT "DIAL BEFORE YOU DIG" PRIOR TO ANY CONSTRUCTION WORK

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTORS ARE RESPONSIBLE TO LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES & STANDARDS. NOTE: UTILITIES SHOWN MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS

LDC Plans and specifications referenced in certificate no. 17312 issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au



AMENDMENT	DES	DRN	CKD	APR	DATE
D	RW1, DRAINAGE LIN AH & AL UPDATED	KE	JM	MS	MS 17/02/23
C	DRAINAGE LINE 12 AMENDED	DG	DG	KE	KE 29/11/22
B	DRIVEWAYS ADDED	DG	NJ	KE	KE 28/09/22
A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS 08/06/22

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

CLIENT:
WINTEN PROPERTY GROUP

STATUS:
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**NEWPARK PRECINCT 7, STAGE 7F
 ENGINEERING PLAN SHEET 1**

PROJECT No: **9985-12**
 SHEET No: **CC19011**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC19011

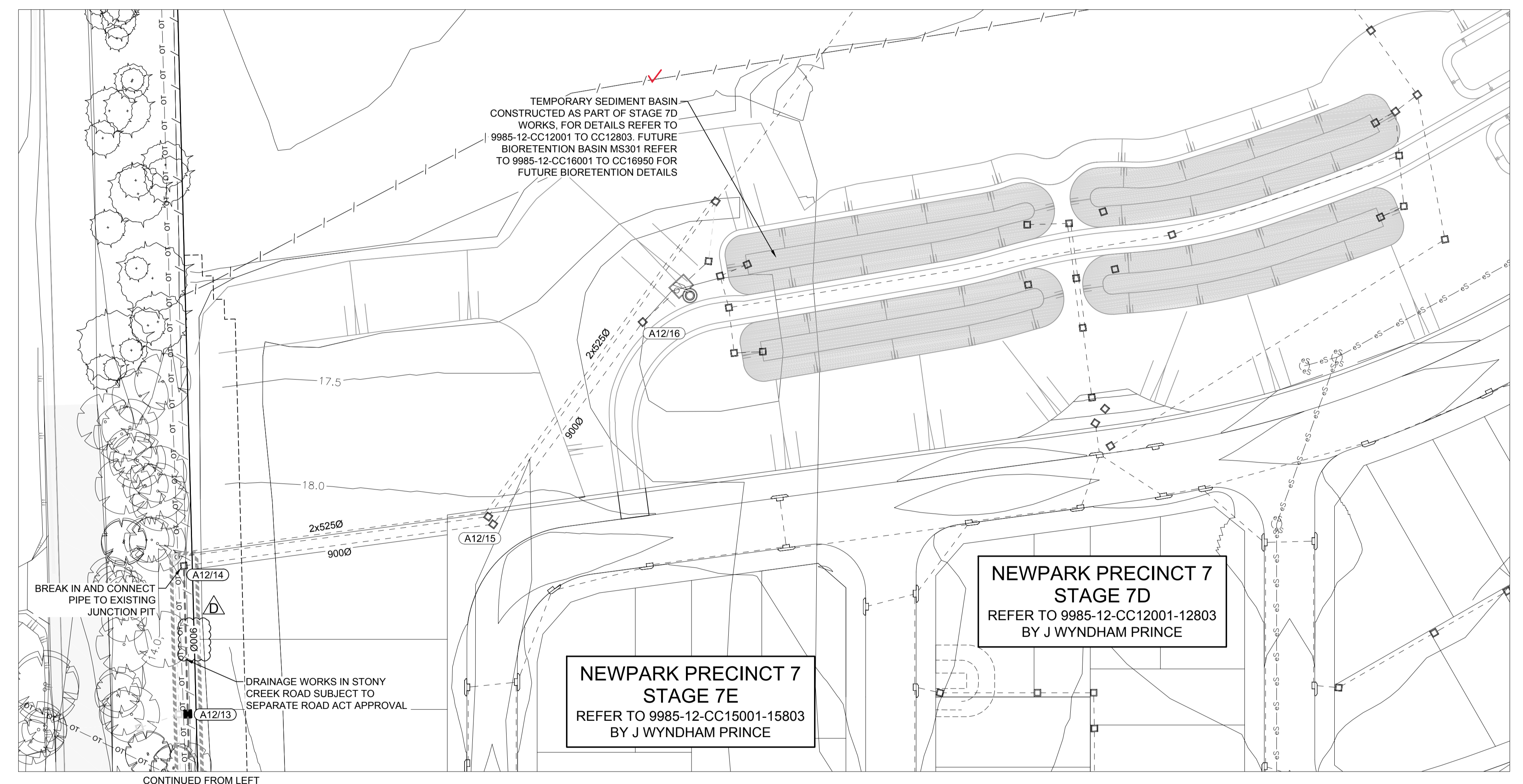
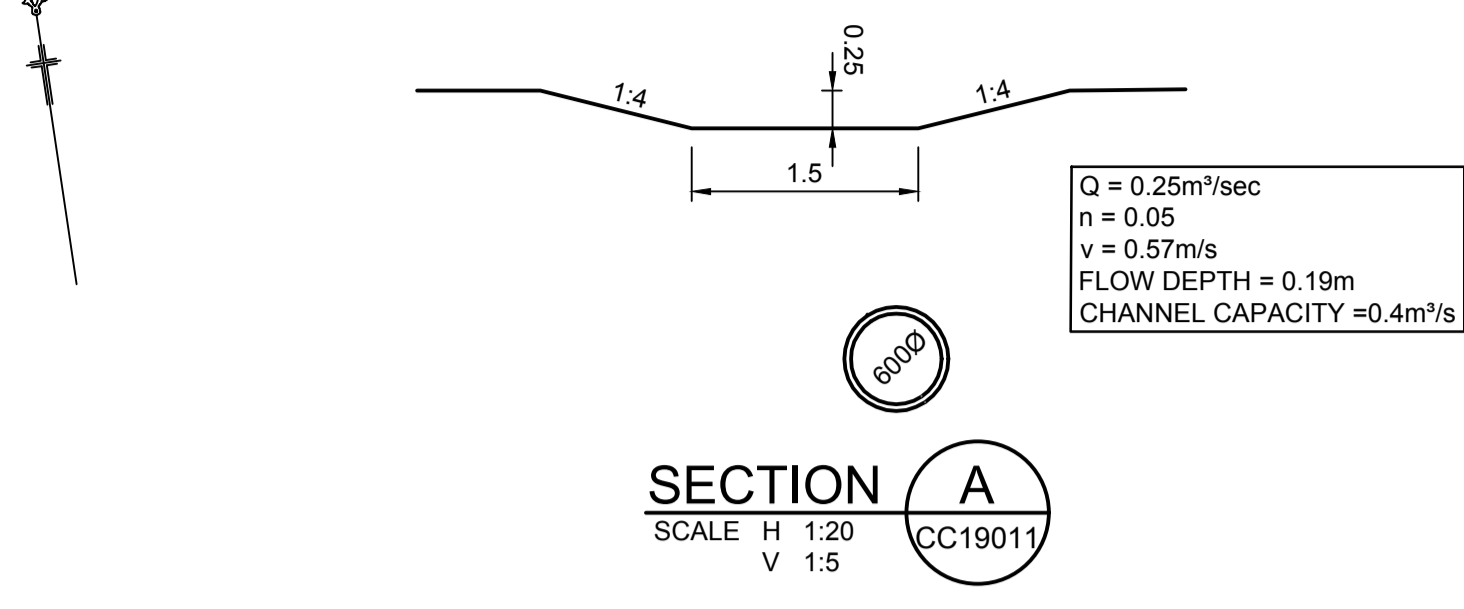
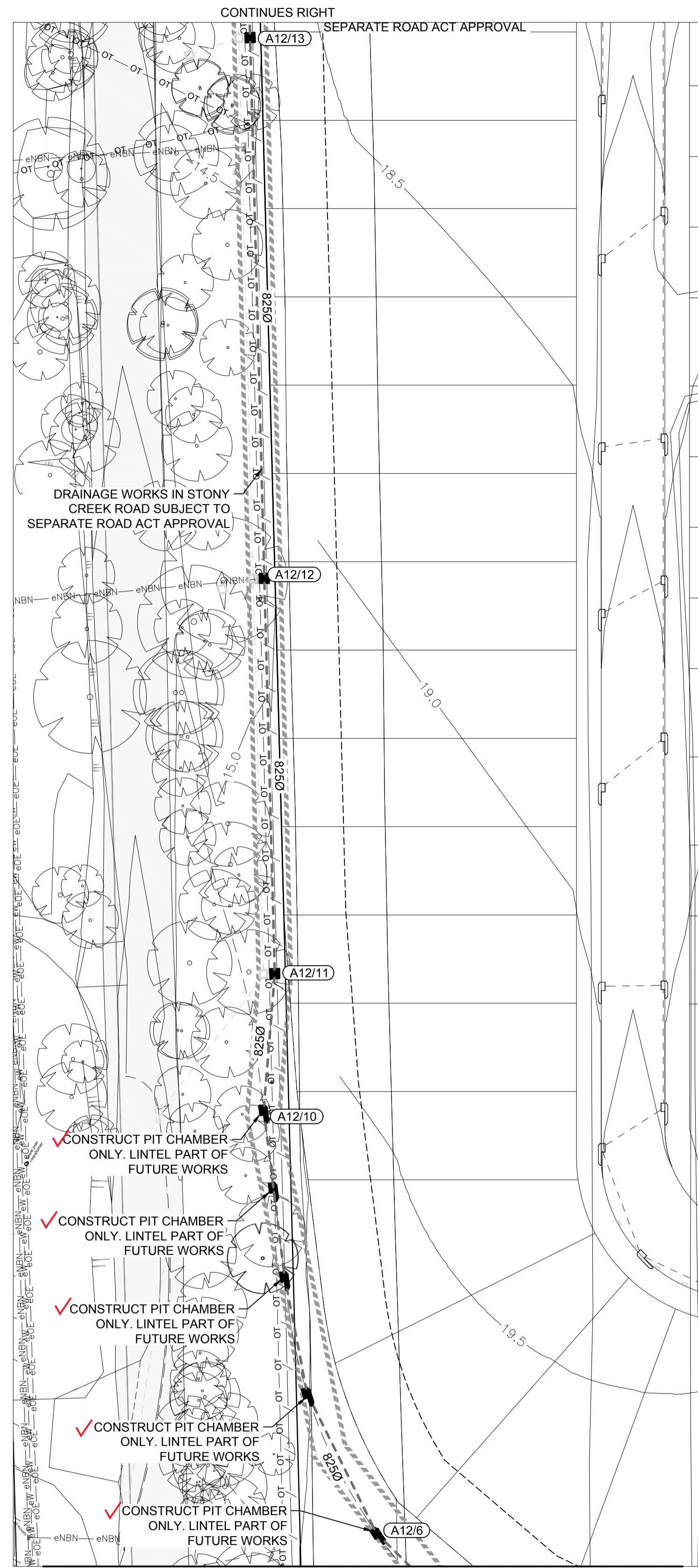
PROJECT No: **9985-12**
 SHEET No: **CC19011**
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Plotted: 17 February, 2023 2:05:34 PM File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19011.dwg

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor

VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F



REFER TO DRAWING CC19011 FOR CONTINUATION

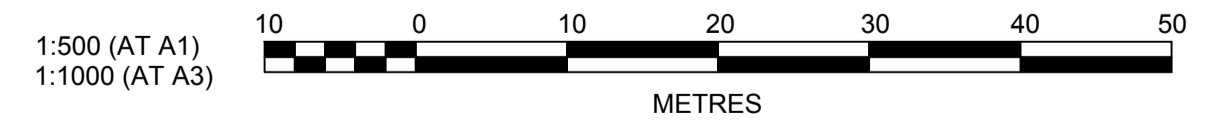
EASEMENT NOTES

- EASEMENT FOR PADMOUNT STATION 2.75m x 5.5m AND VARIABLE.
- RESTRICTION ON THE USE OF LAND IN RELATION TO FIRE RATINGS OF BUILDINGS MEASURED 3m FROM THE SUBSTATION PLINTH.
- RESTRICTION ON THE USE OF LAND IN RELATION TO SWIMMING POOLS MEASURED 5m FROM THE SUBSTATION PLINTH.
- EASEMENT FOR DRAINAGE 1.5m WIDE



WARNING!
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Plotted: 16 May, 2023 11:10:26 AM File Name: J:\9985\DC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS119 - Precinct 7\9985-12-CC19012.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
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D EXISTING PIPE UPDATED	KE	JM	MS	MS	17/02/23
C EX SW PIPE SIZE UPDATED	KE	KE	MS	MS	09/01/23
B NOTE ADDED; DRAINAGE LINE 12 AMENDED	DG	DG	KE	KE	29/11/22
A ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
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 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:
WINTEN PROPERTY GROUP

STATUS:
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NEWPARK PRECINCT 7, STAGE 7F ENGINEERING PLAN SHEET 2


PLAN No: 9985-12-CC19012

PROJECT No: **9985-12**
 SHEET No: **CC19012**

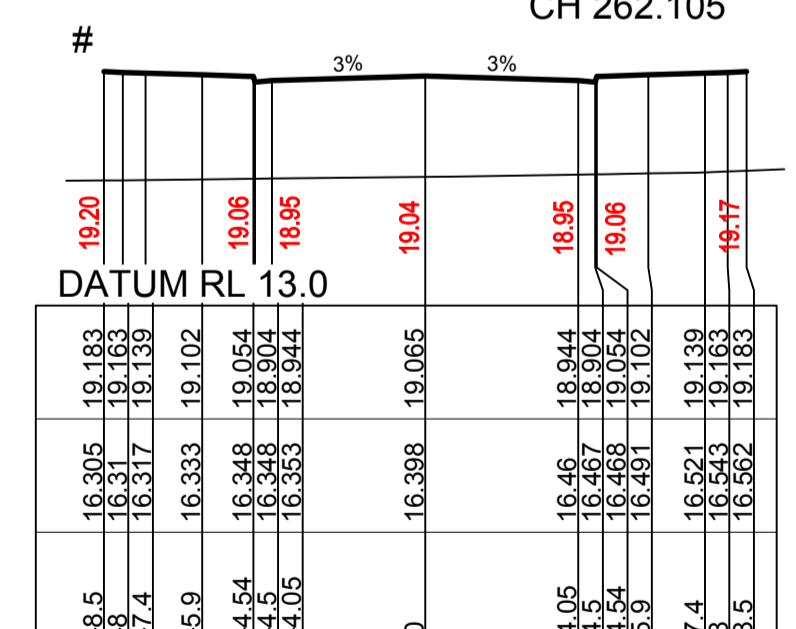
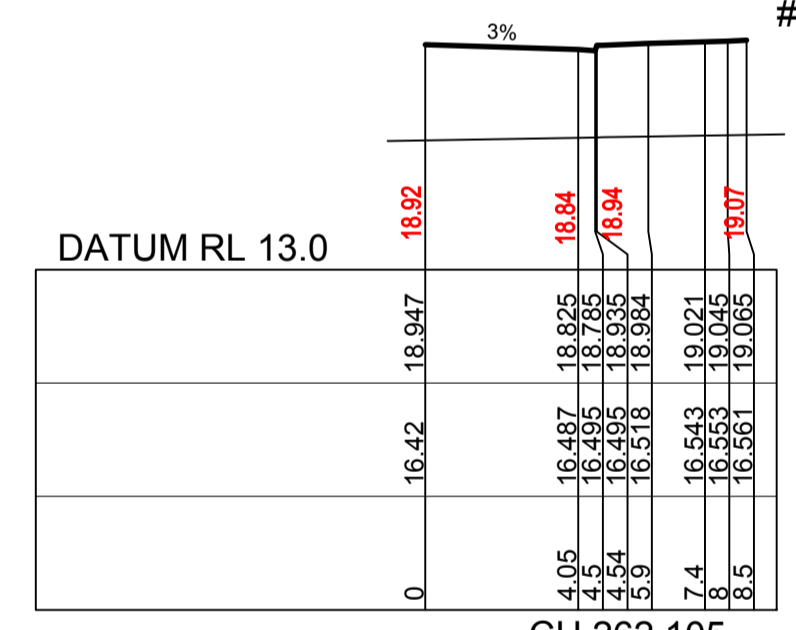
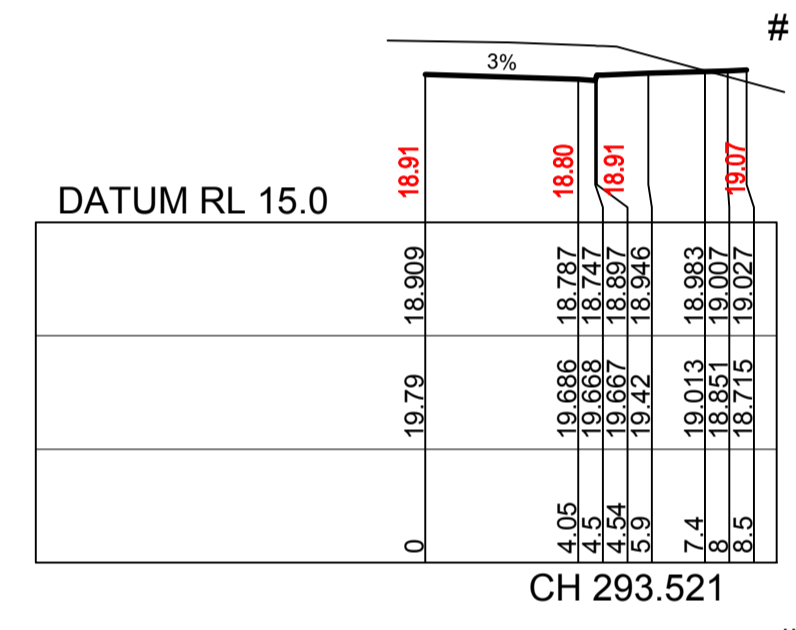
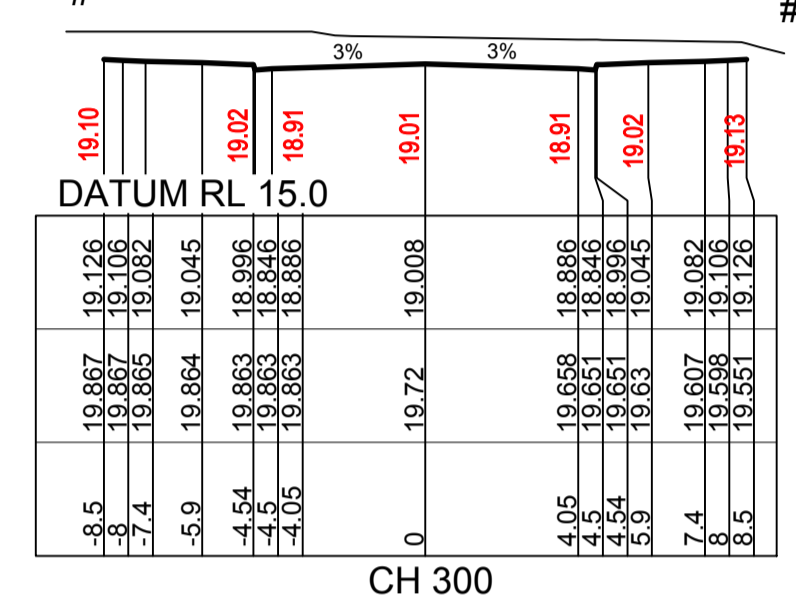
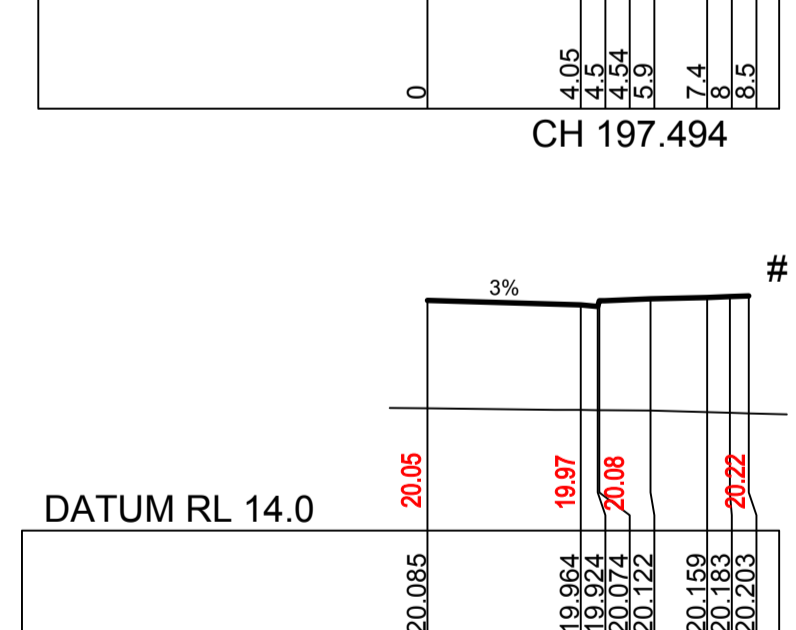
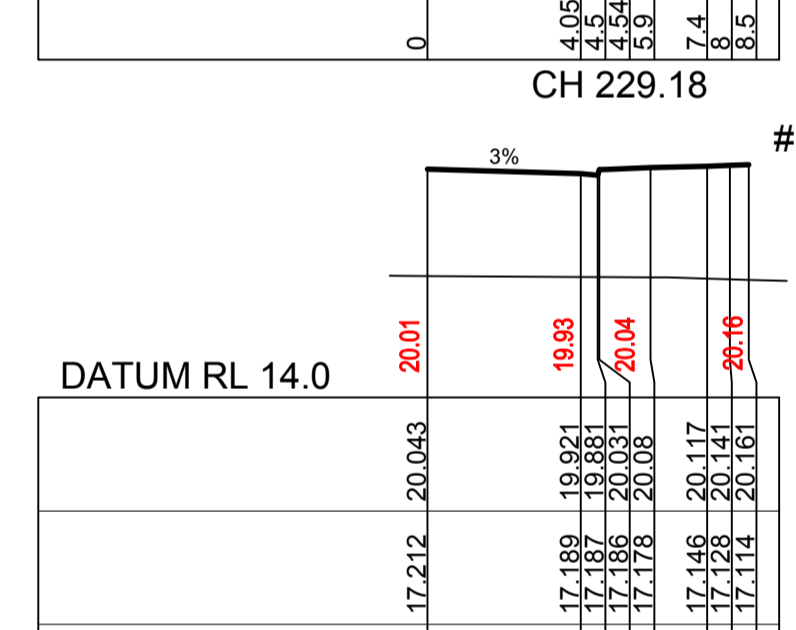
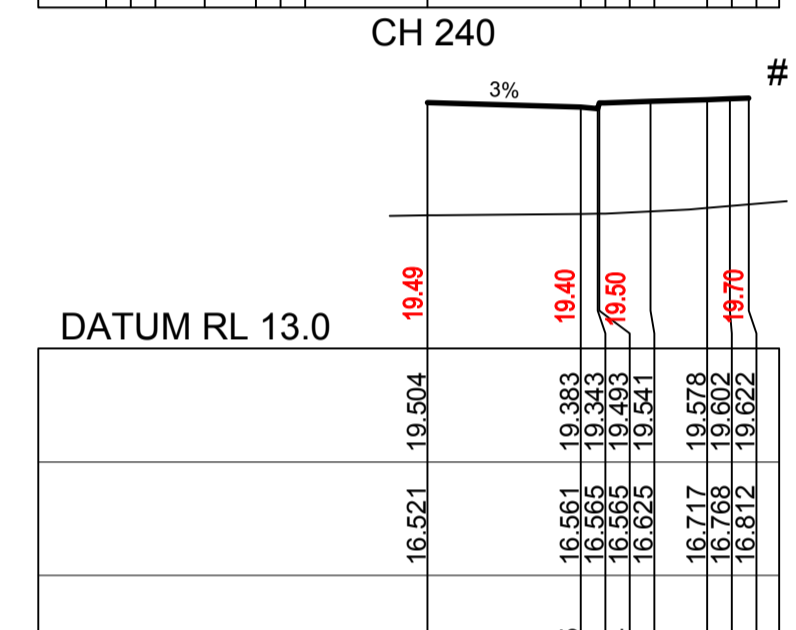
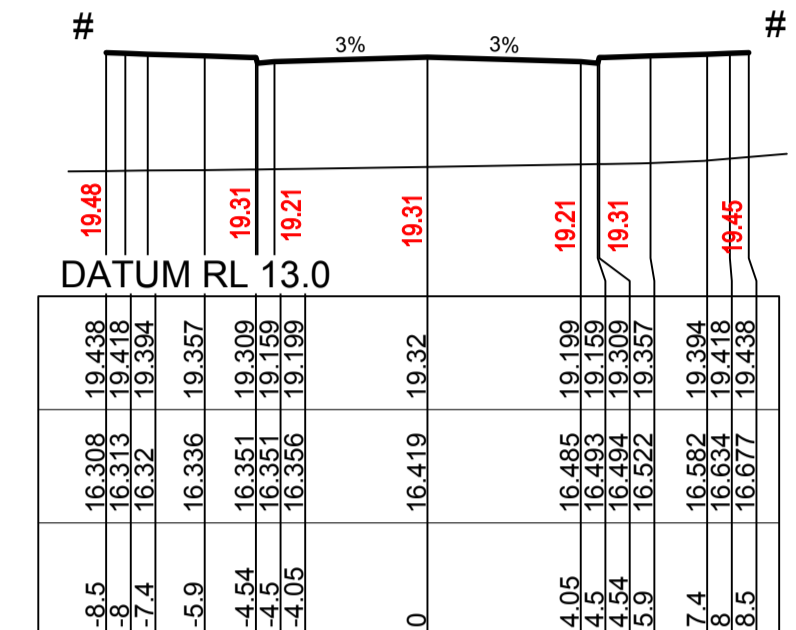
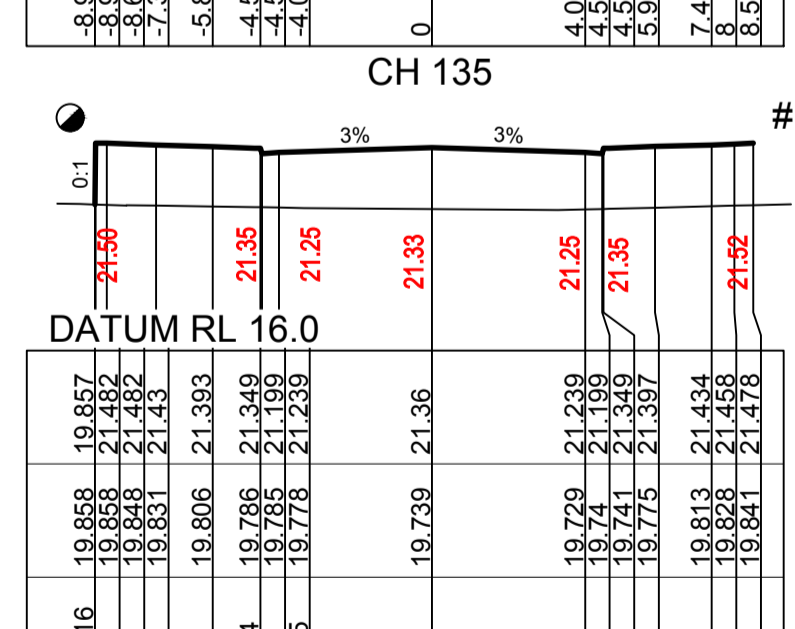
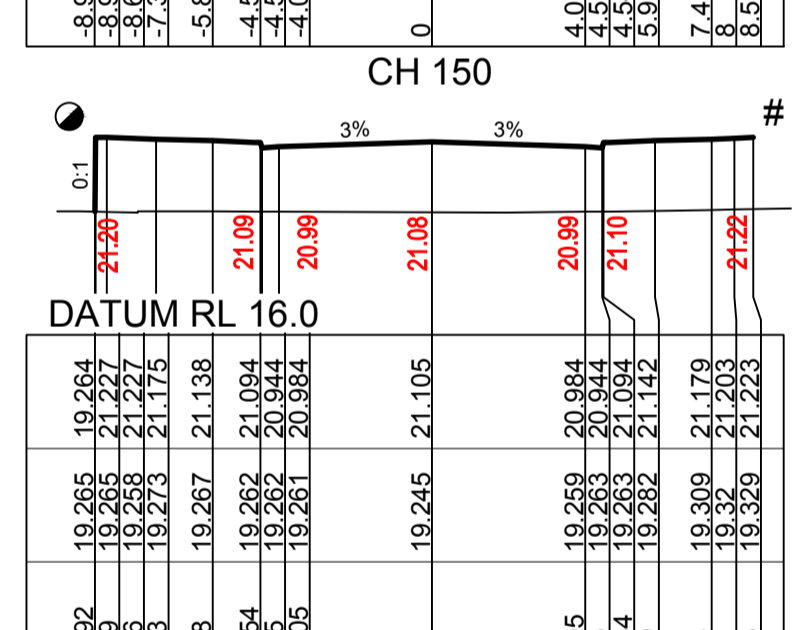
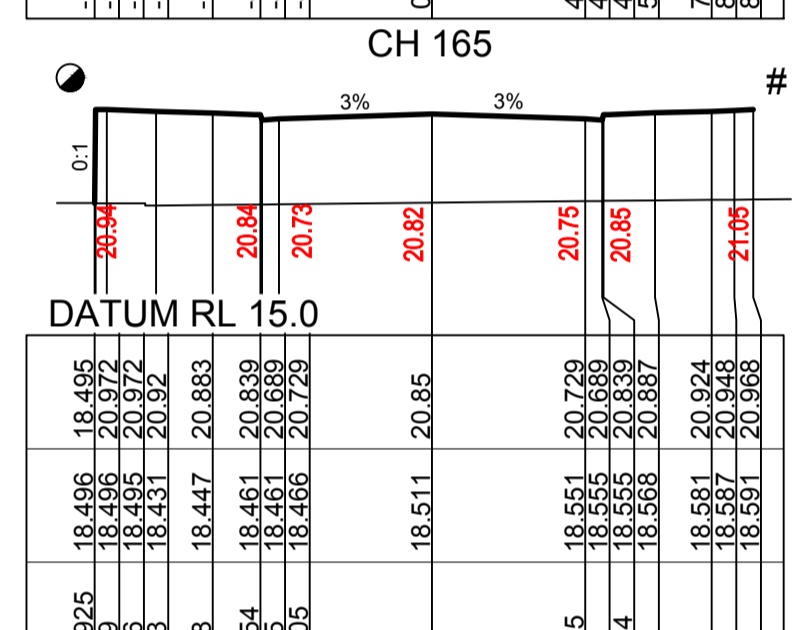
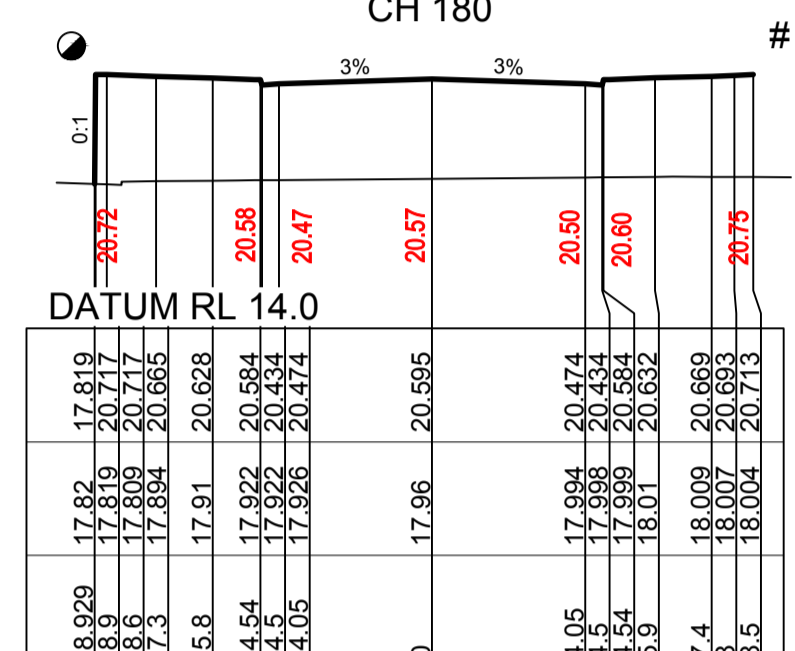
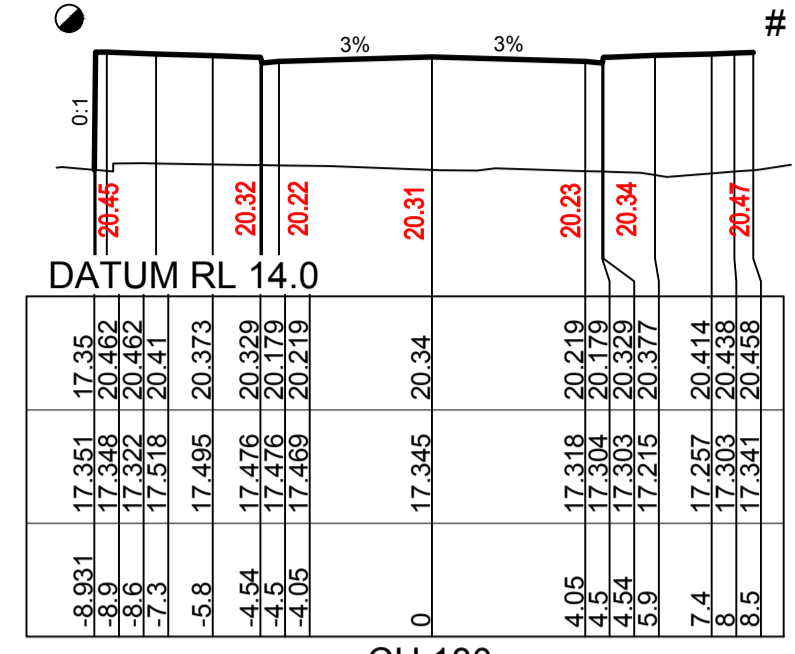
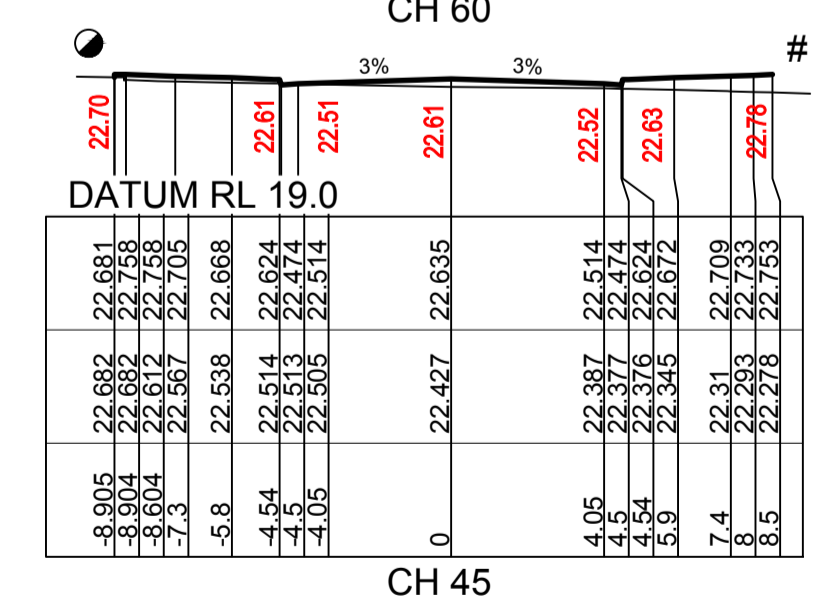
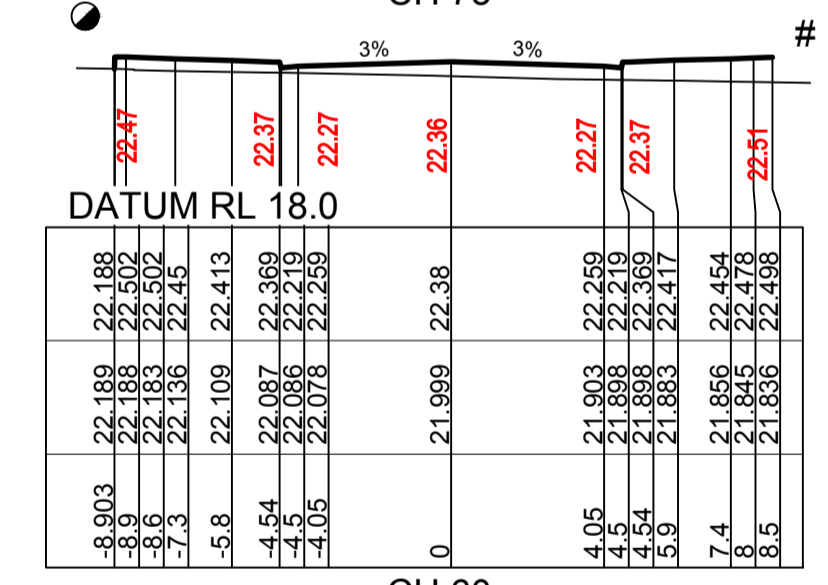
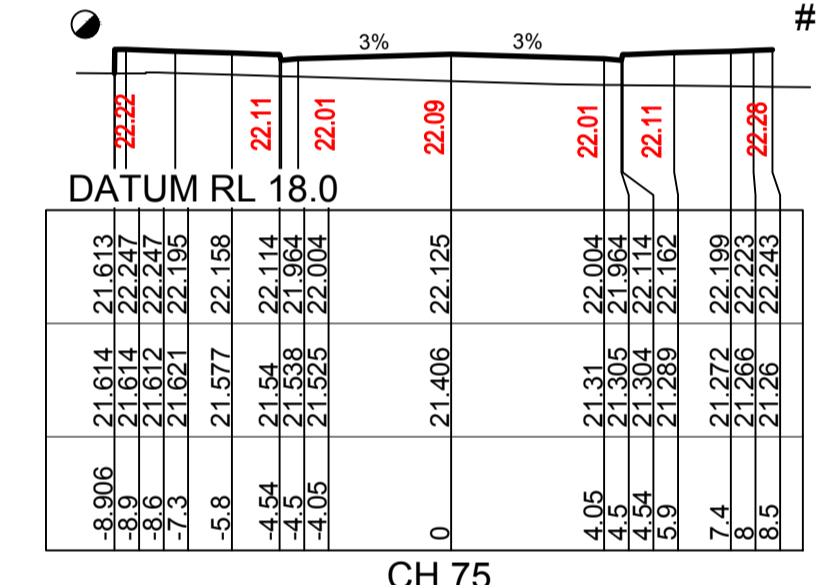
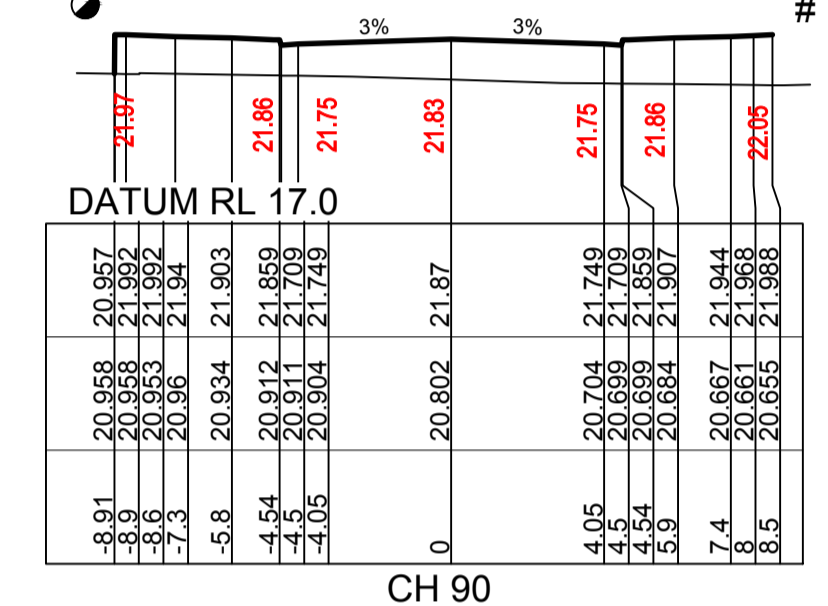
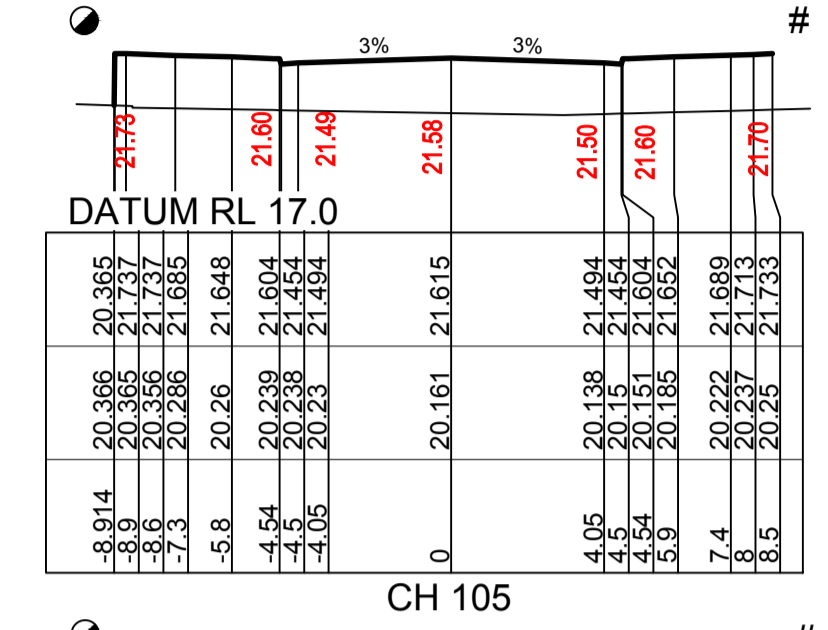
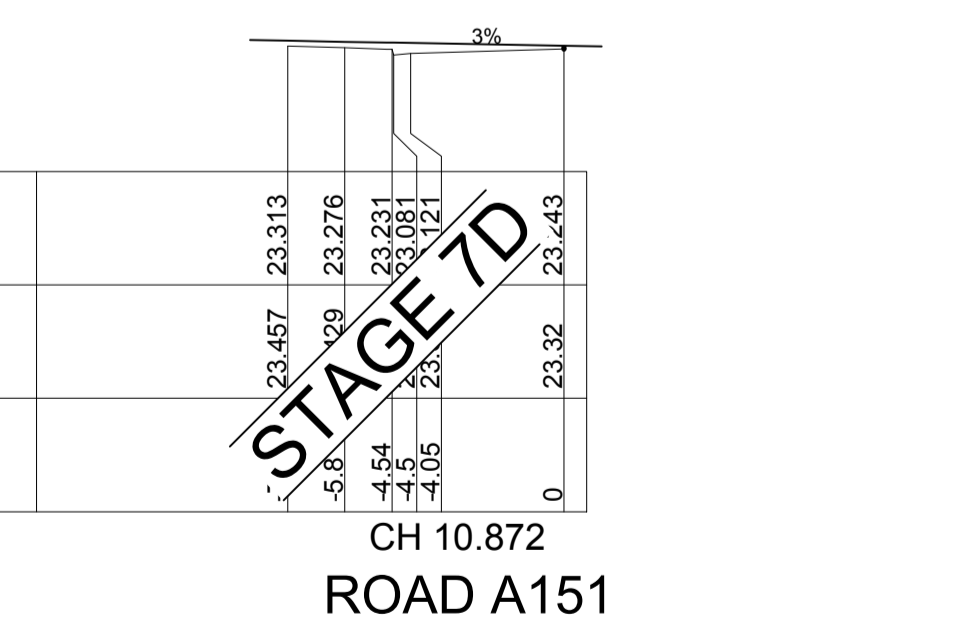
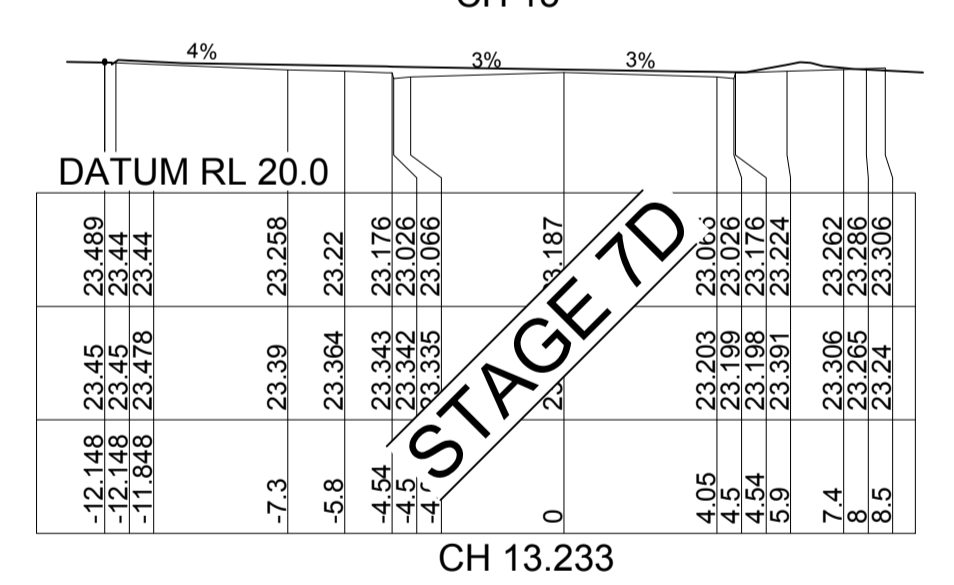
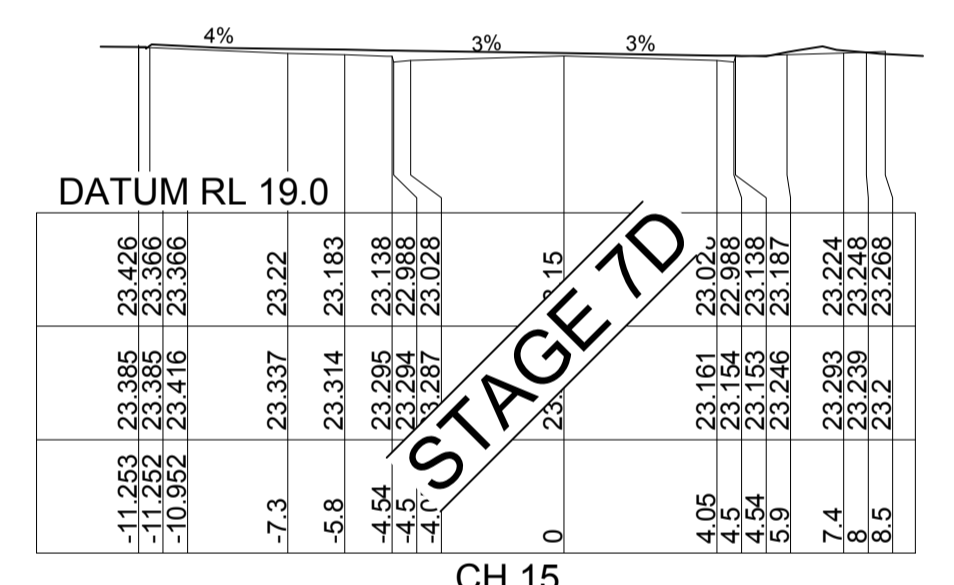
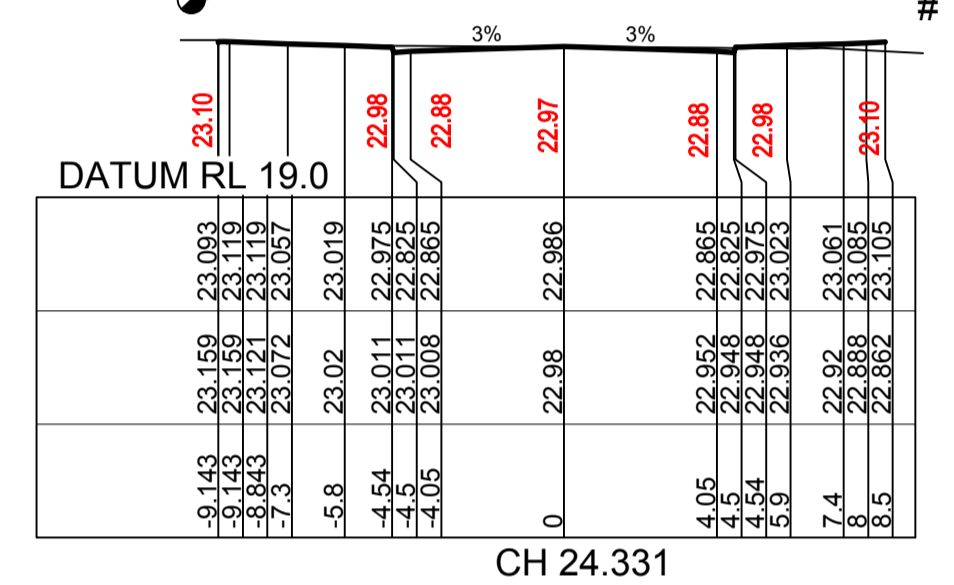
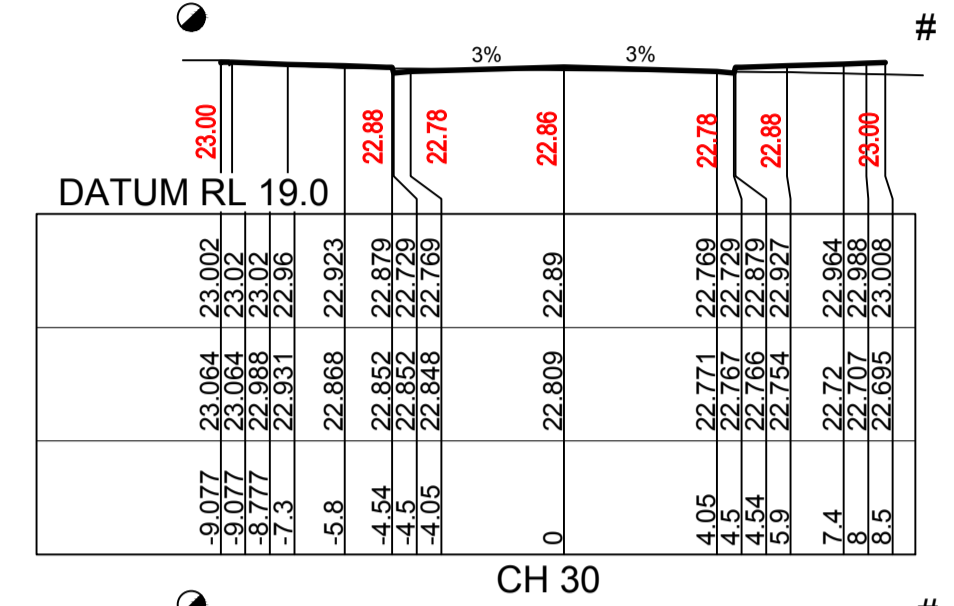
AZIMUTH: M.G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC19012	E
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- REFER TO CC19011 FOR LOT REGRADE
 ● - REFER TO STAGE 7D 9985-12-CC12011 FOR RETAINING WALL 2 DETAILS

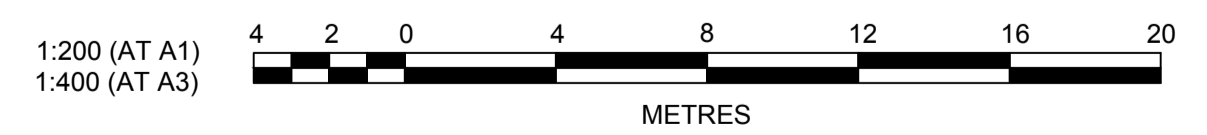
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature 
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F

DATUM RL 20.0	DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL	OFFSET
	23.457	23.313	
	23.299	23.276	
	23.343	23.231	
	23.342	23.081	
	23.335	23.121	
	23.306	23.262	
	23.293	23.246	
	23.294	23.306	
	23.294	23.306	
	23.32	23.443	



LDC Plans and specifications referenced in certificate no. **17312** issued by: **Christopher Louis Wahbe** Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision Land Development Certificates www.LDC.com.au



A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22
	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:  **WINTER PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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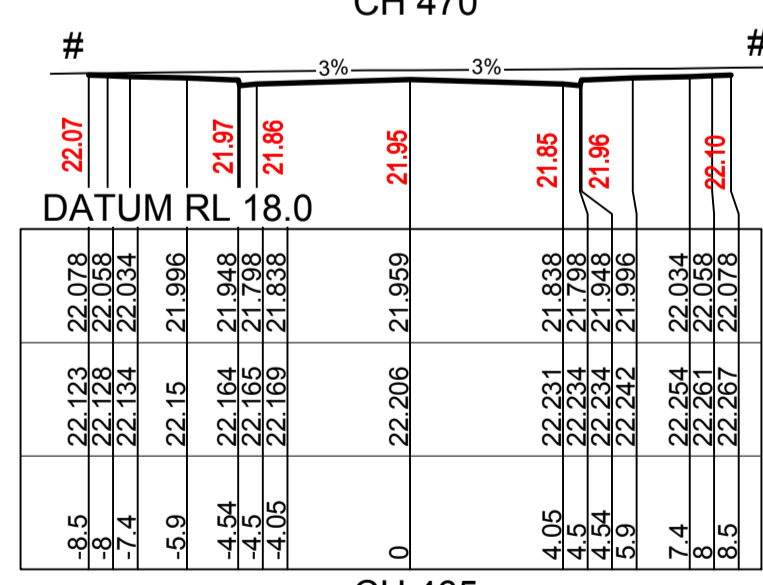
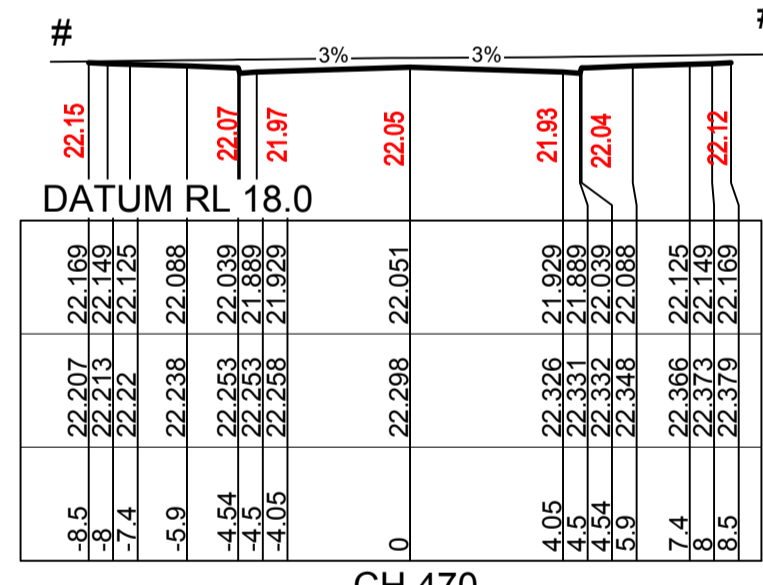
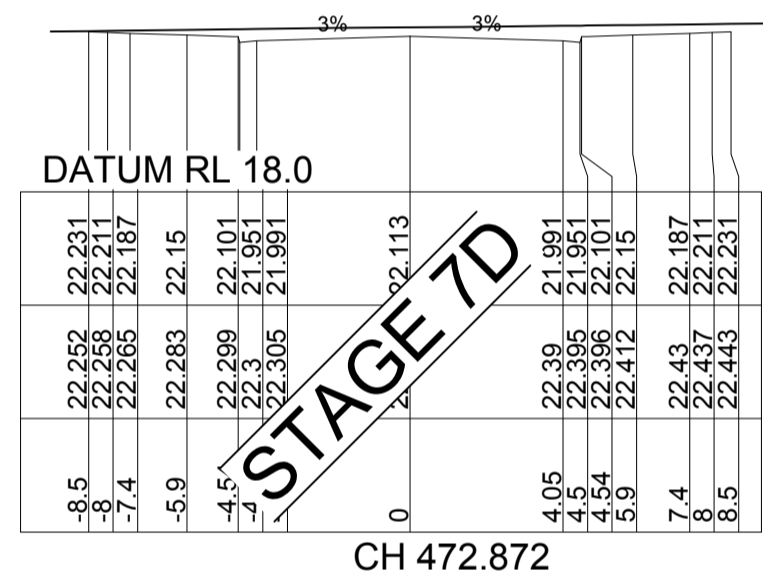
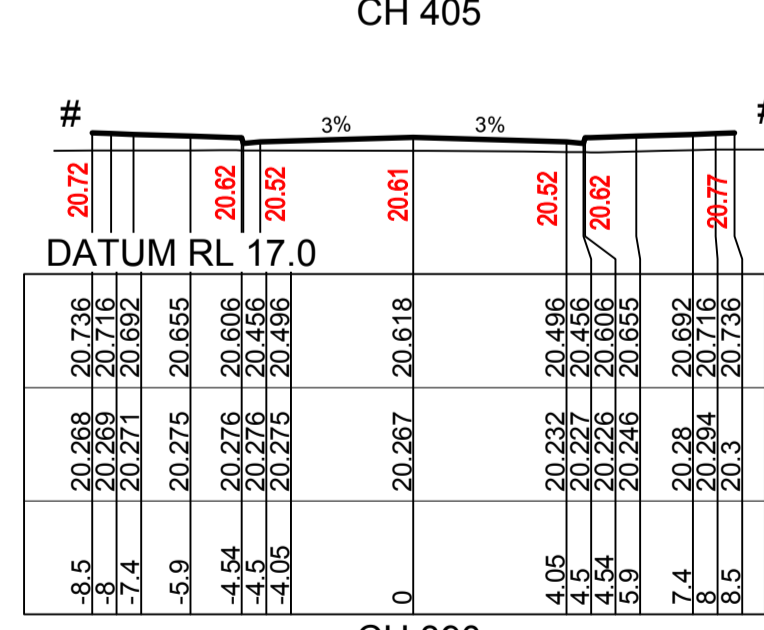
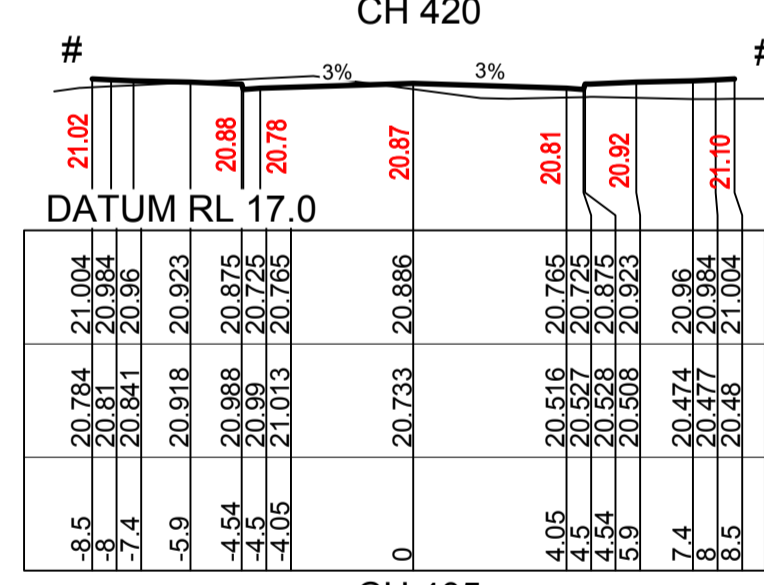
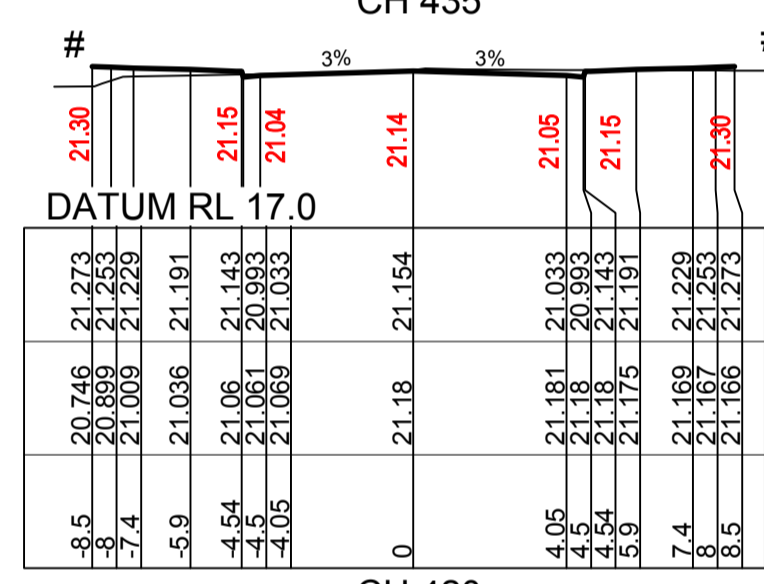
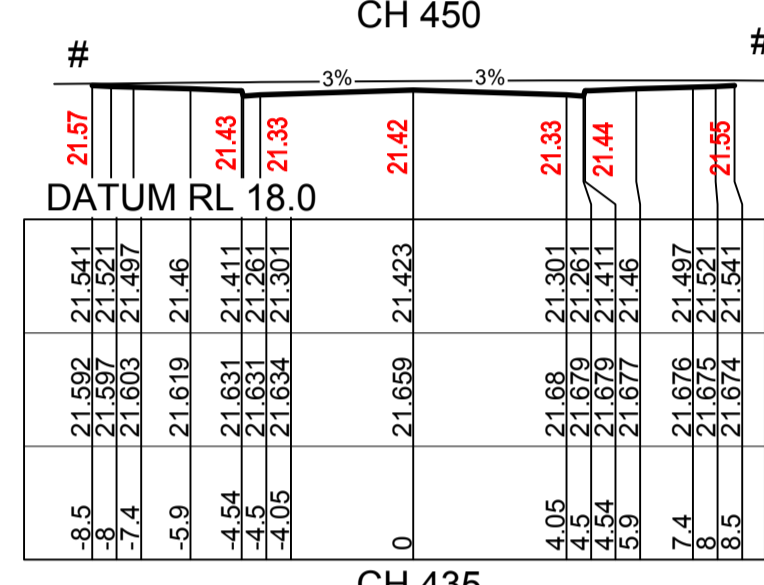
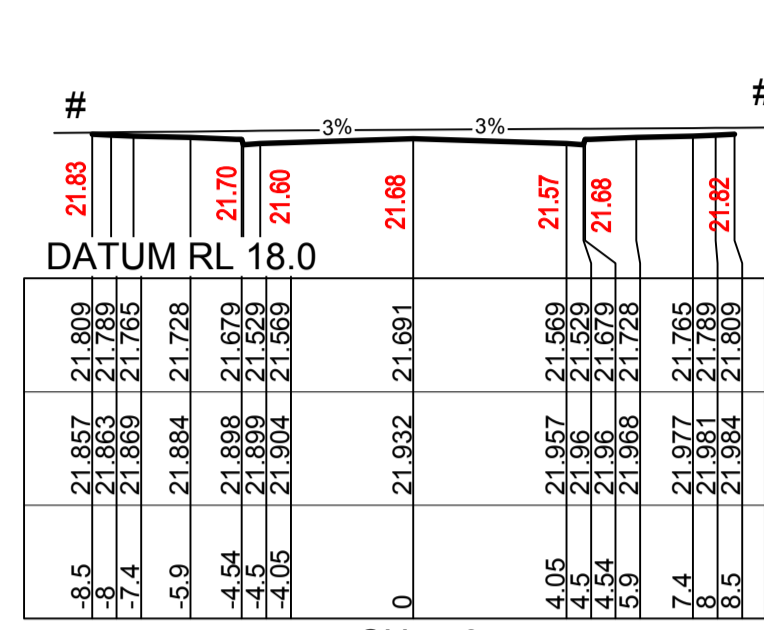
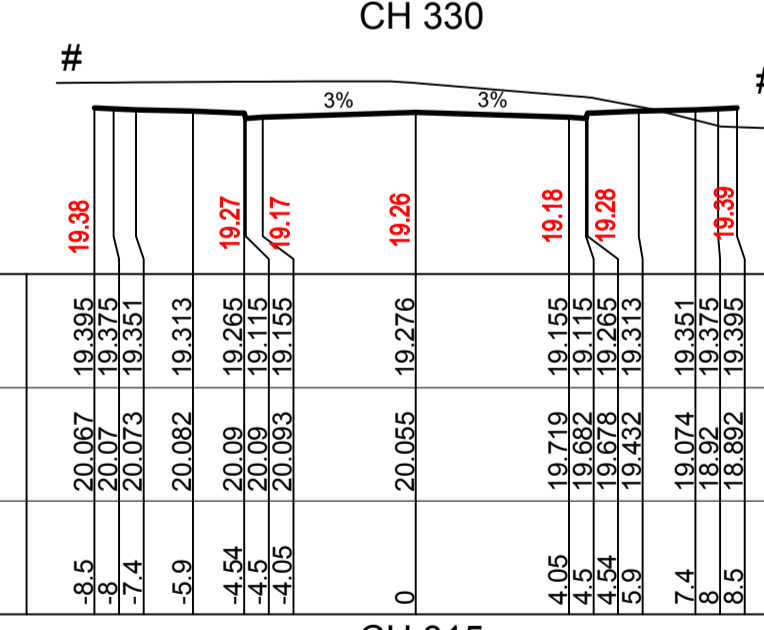
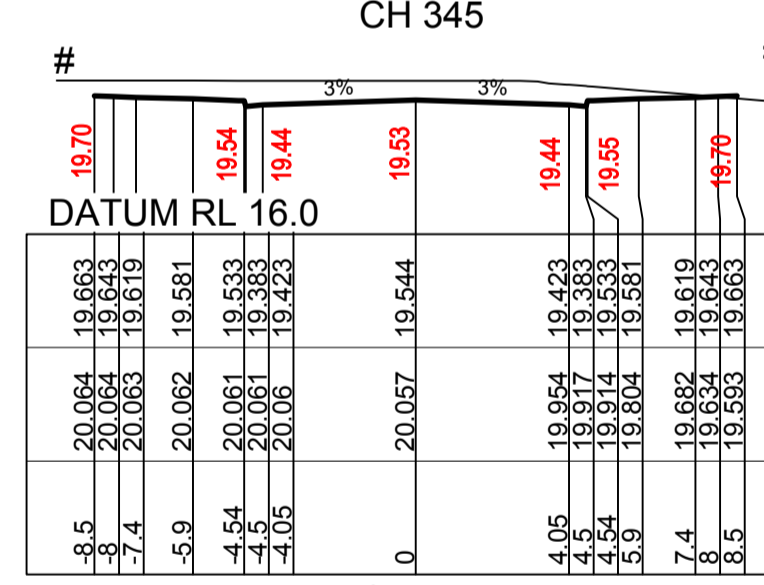
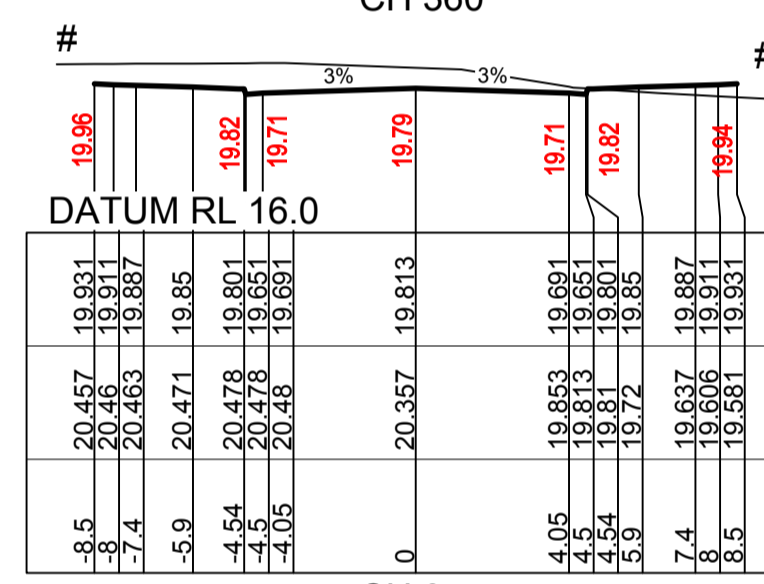
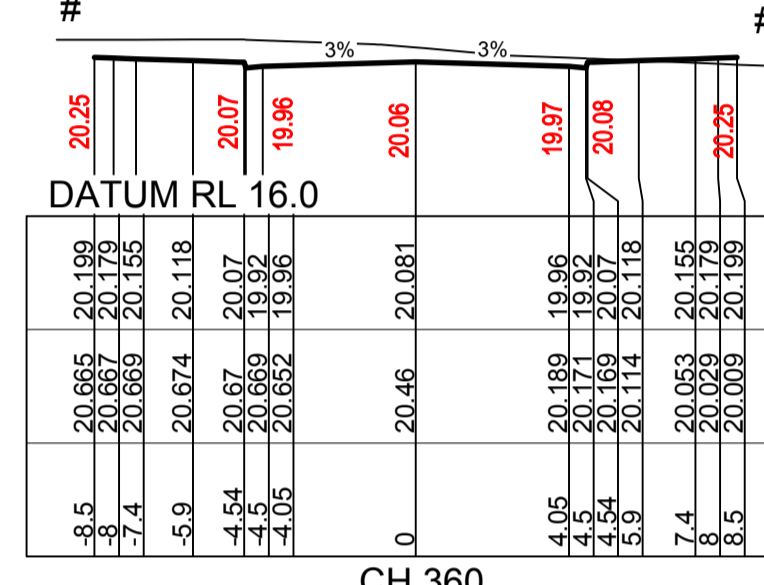
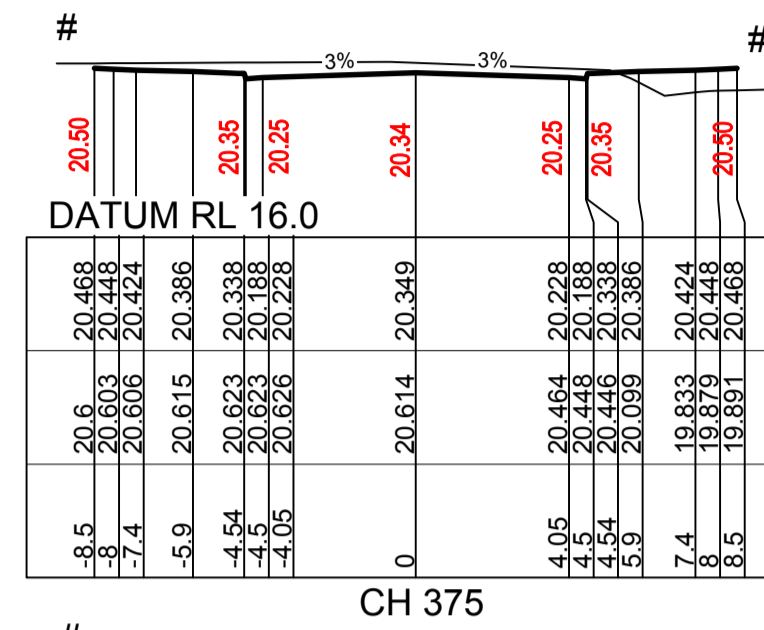
NEWPARK PRECINCT 7, STAGE 7F ROAD CROSS SECTIONS SHEET 1
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC19201**

PROJECT No: **9985-12**
 SHEET No: **CC19201**
 A

- REFER TO CC19011 FOR LOT REGRADE

Plotted: 15 September, 2022 2:52:04 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Preprint\7F9985-12-CC19202.dwg

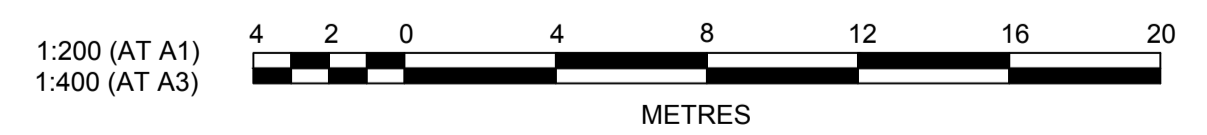
DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL	OFFSET
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19.351	20.073	-5.9
19.313	20.082	-4.54
19.265	20.09	-4.5
19.27	20.093	-4.05
19.17	20.093	0
19.26	20.055	4.05
19.18	19.719	4.5
19.28	19.692	4.54
19.28	19.432	5.9
19.39	19.074	7.4
19.39	18.892	8.5



STAGE 7D

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F



AMENDMENT	DES	NDW	KE	MS	DATE
A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS
		DES	DRN	CKD	APR
					08/06/22

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:
WINTAN PROPERTY GROUP

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

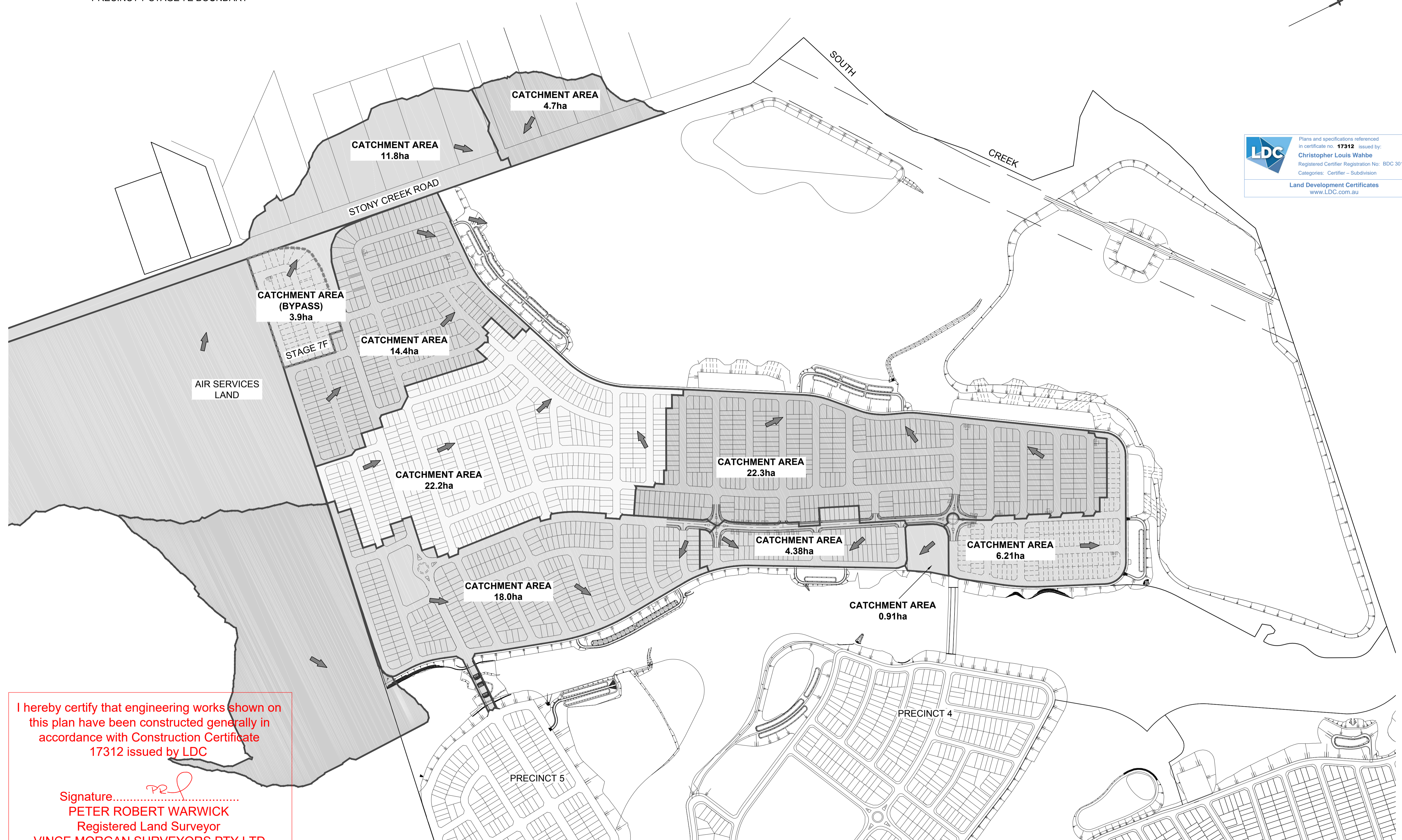
NEWPARK PRECINCT 7, STAGE 7F
 ROAD CROSS SECTIONS SHEET 2
 PROJECT No: **9985-12**
 SHEET No: **CC19202**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC19202** A

LEGEND

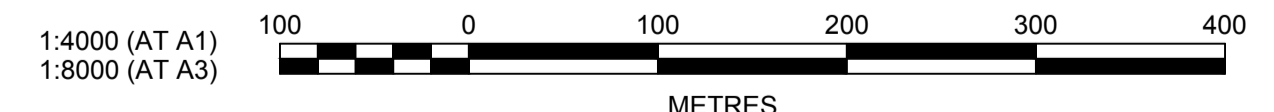
----- PRECINCT 7 STAGE 7E BOUNDARY

Plans and specifications referenced in certificate no. **17312** issued by:
Christopher Louis Wahbe
Registered Certifier Registration No: BDC 3015
Categories: Certifier - Subdivision
Land Development Certificates
www.LDC.com.au



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....*PR*.....
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 13/11/2023 REF 20260-7F



Plotted: 15 September, 2022 2:52:24 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19401.dwg

A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22			
	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:

WINTER PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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**NEWPARK
PRECINCT 7, STAGE 7F
OVERALL CATCHMENT PLAN**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC19401

PROJECT No: **9985-12**
SHEET No: **CC19401**

A

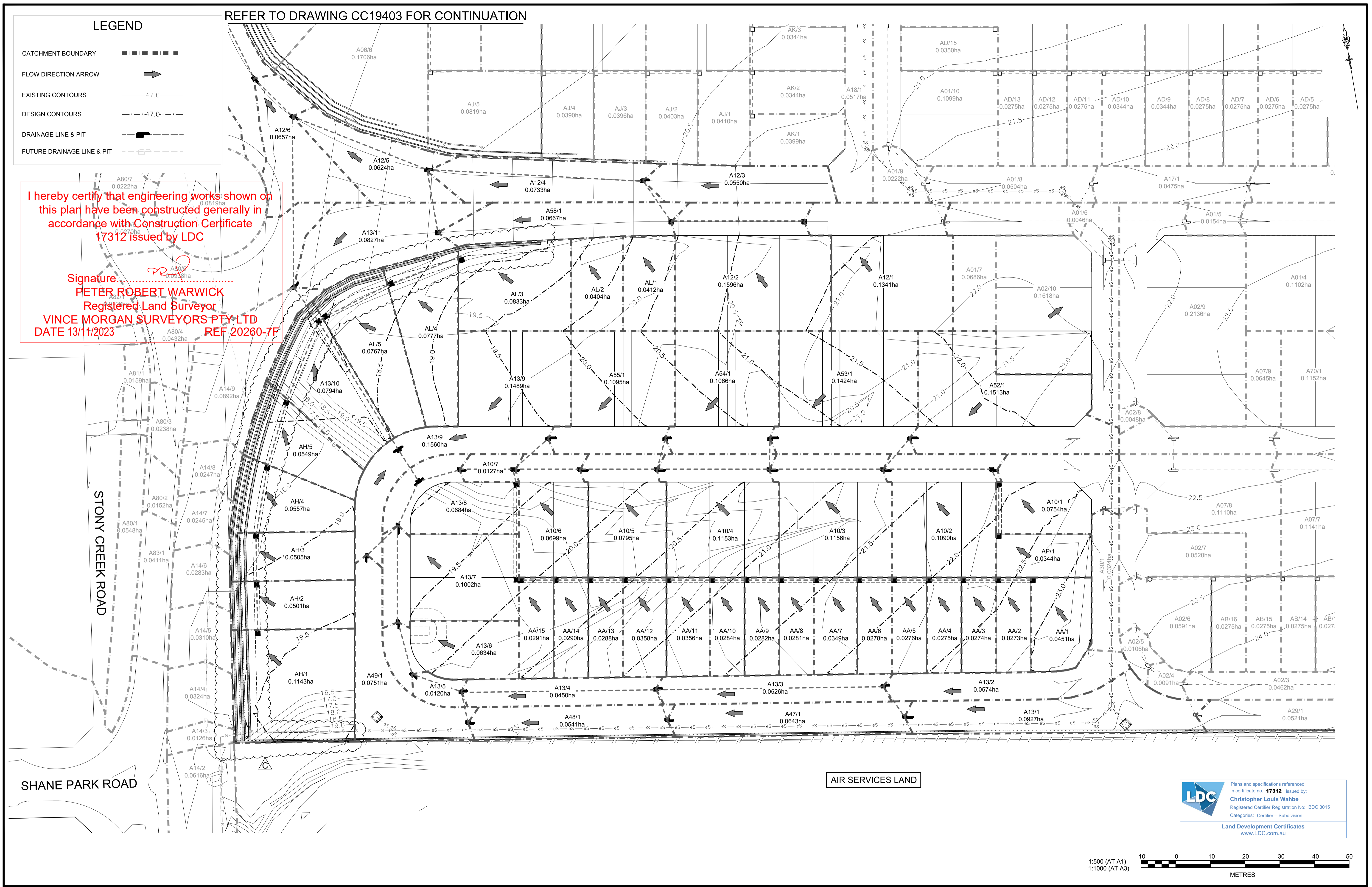
LEGEND

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

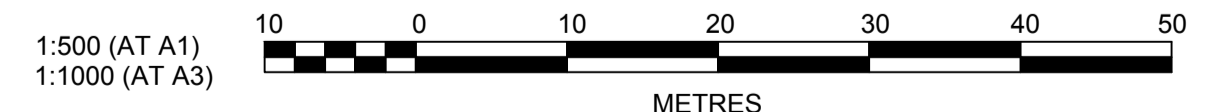
REFER TO DRAWING CC19403 FOR CONTINUATION

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F



LDC Plans and specifications referenced in certificate no. **17312** issued by **Christopher Louis Wahbe** Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au



C	LINE AH AND AL UPDATED	KE	JM	MS	MS	17/02/23
B	CATCHMENTS AMENDED	DG	DG	KE	KE	29/11/22
A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

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

CLIENT: **WINTEN PROPERTY GROUP**

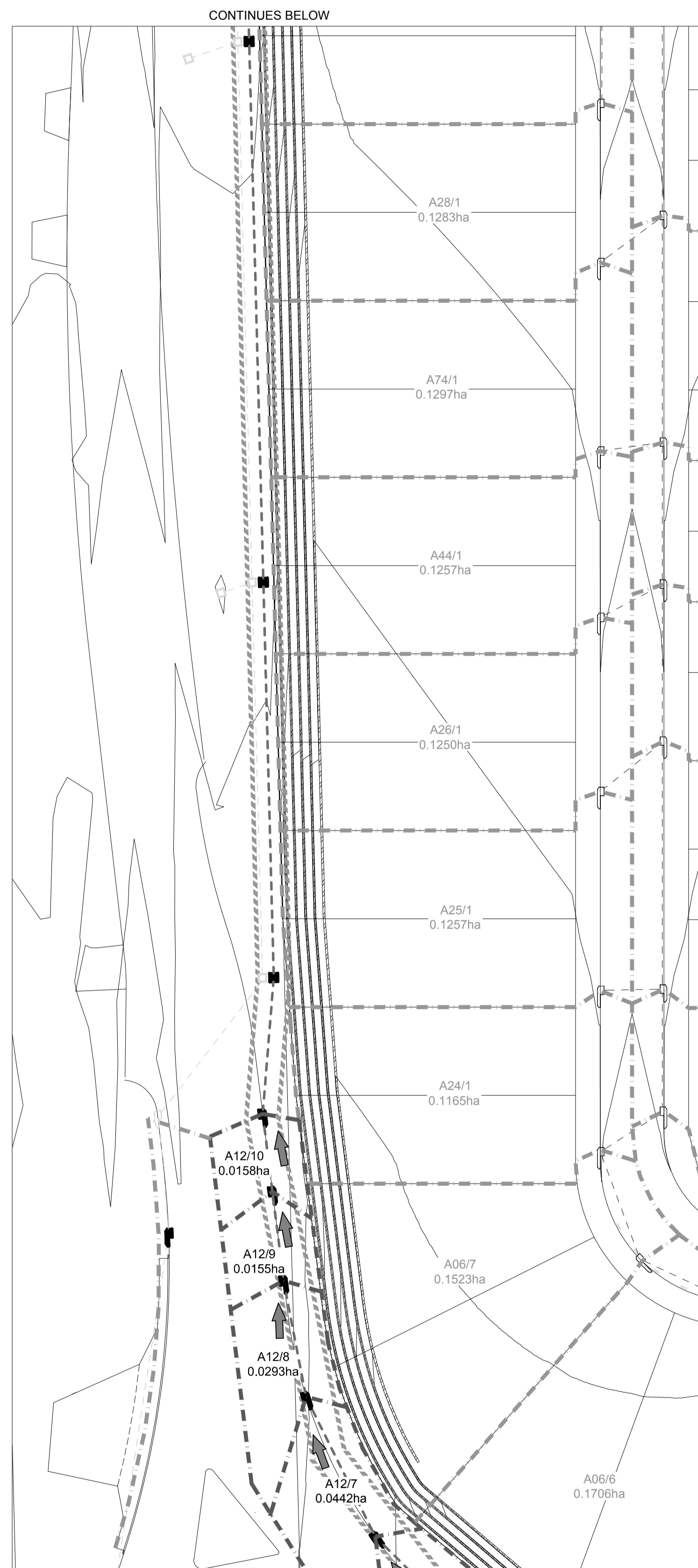
STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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NEWPARK PRECINCT 7, STAGE 7F
 CATCHMENT PLAN SHEET 1
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC19402

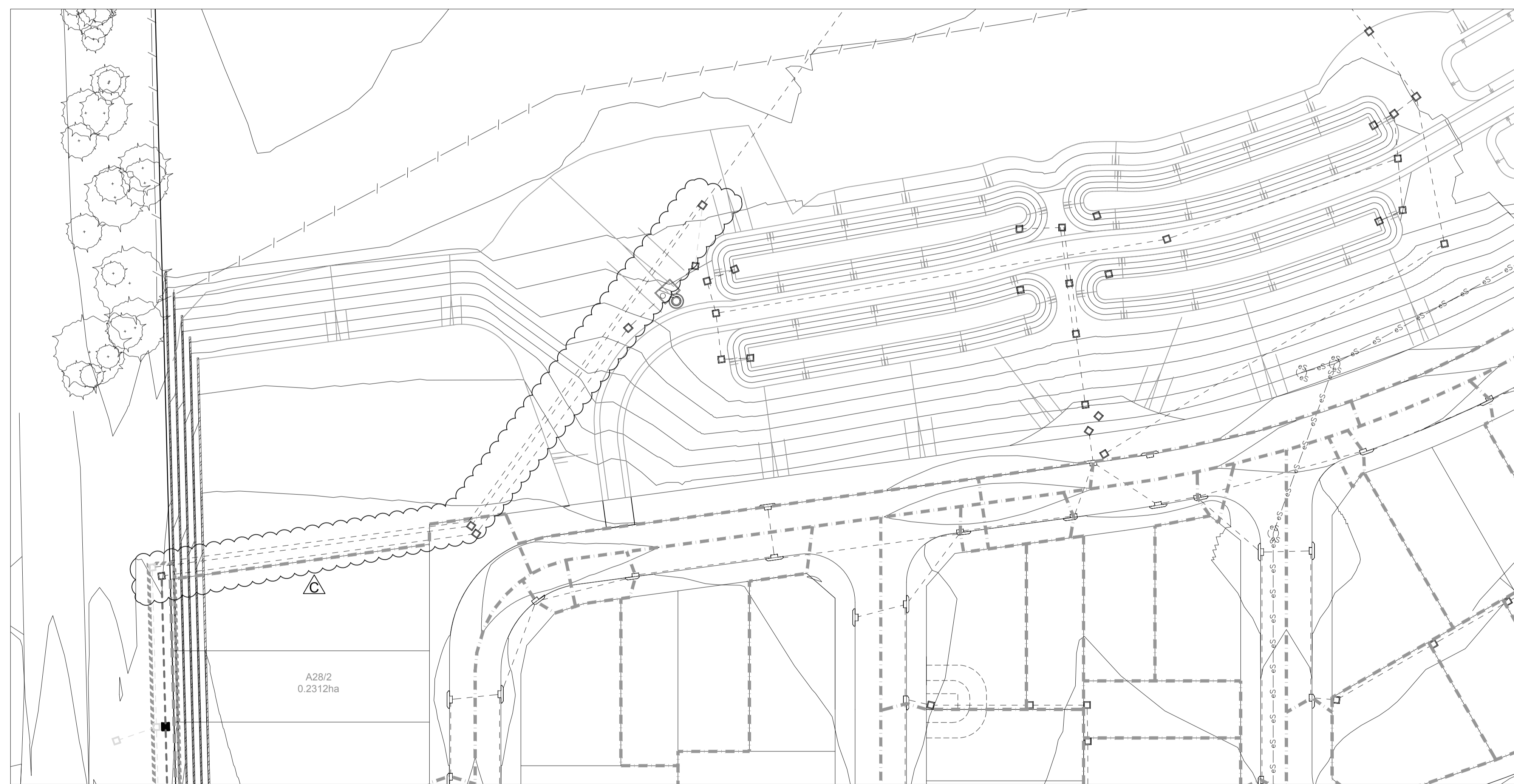
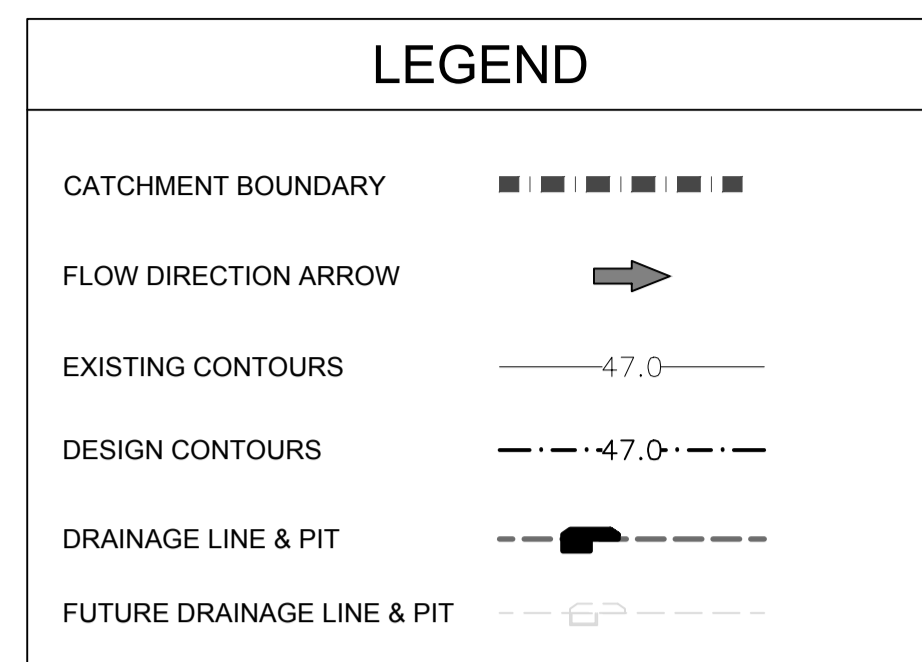
PROJECT No: **9985-12**
 SHEET No: **CC19402**
 C

Plotted: 17 February 2023 12:19:43 PM File Name: J:\9985\9985-12\WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19402.dwg

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REFER TO DRAWING CC19402 FOR CONTINUATION

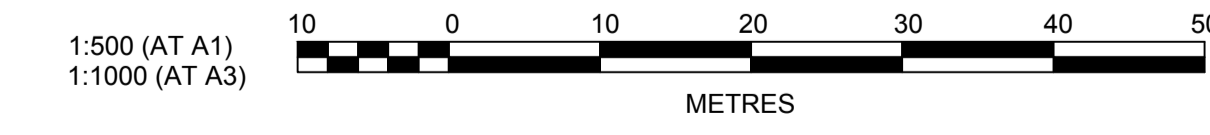


CONTINUED FOR ABOVE

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....*PRJ*.....
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 13/11/2023 REF 20260-7F

Plans and specifications referenced in certificate no. **17312** issued by:
Christopher Louis Wahbe
Registered Certifier Registration No: BDC 3015
Categories: Certifier - Subdivision
Land Development Certificates
www.LDC.com.au



AMENDMENT	DES	DRN	CKD	APR	DATE
C EXISTING PIPE UPDATED	KE	JM	MS	MS	17/02/23
B CATCHMENTS AMENDED	DG	DG	KE	KE	29/11/22
A ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22

J. WYNDHAM PRINCE
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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

CLIENT:

WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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**NEWPARK
PRECINCT 7, STAGE 7F
CATCHMENT PLAN
SHEET 2**

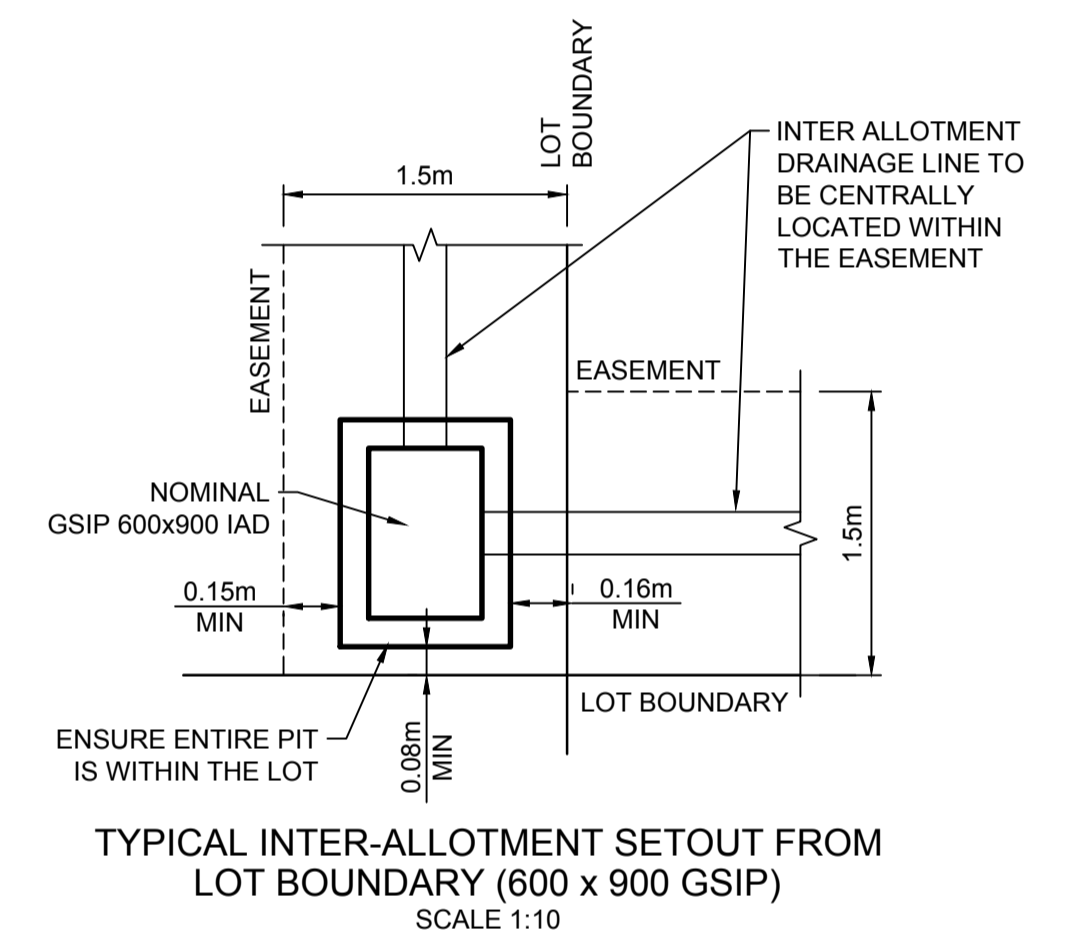
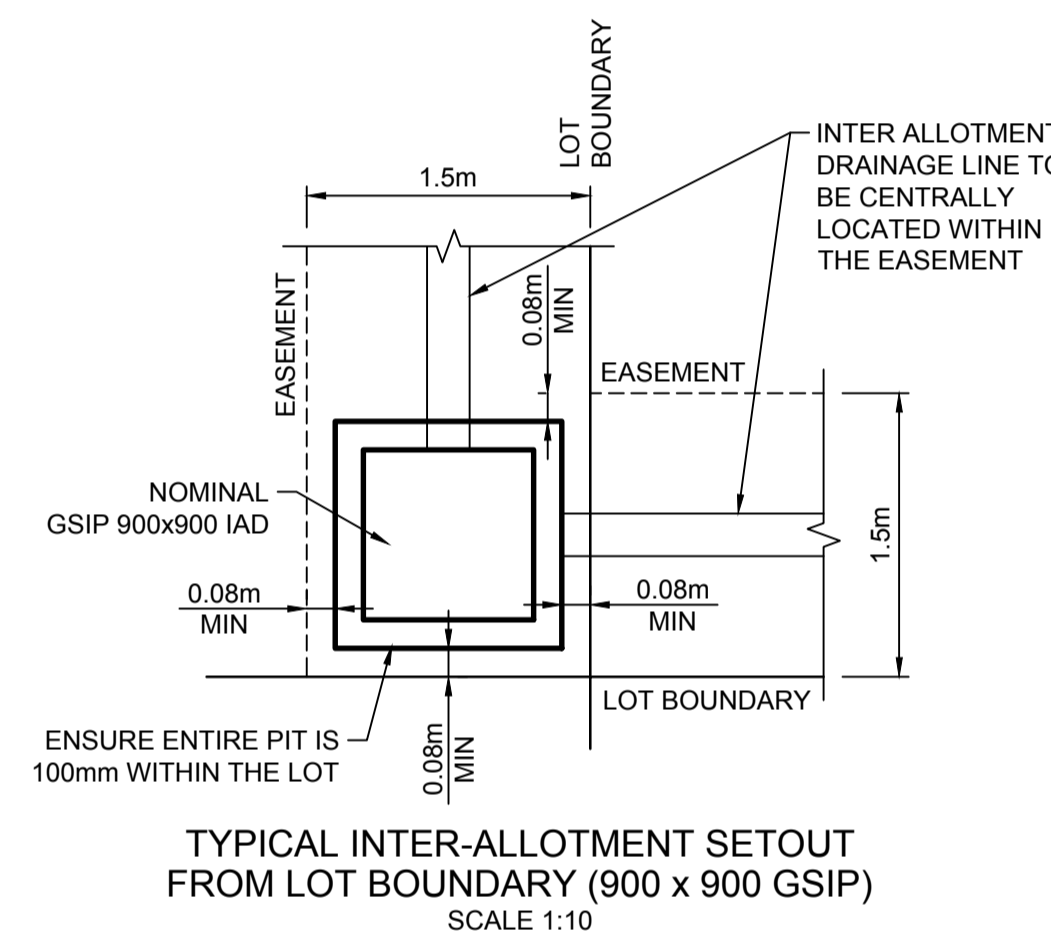
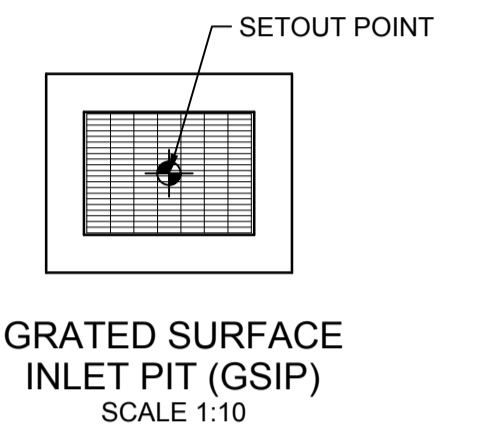
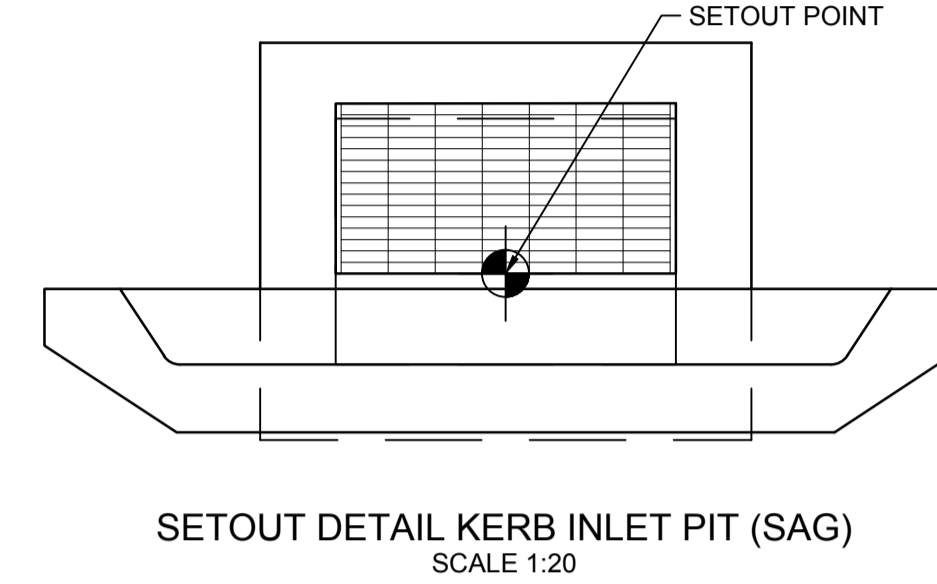
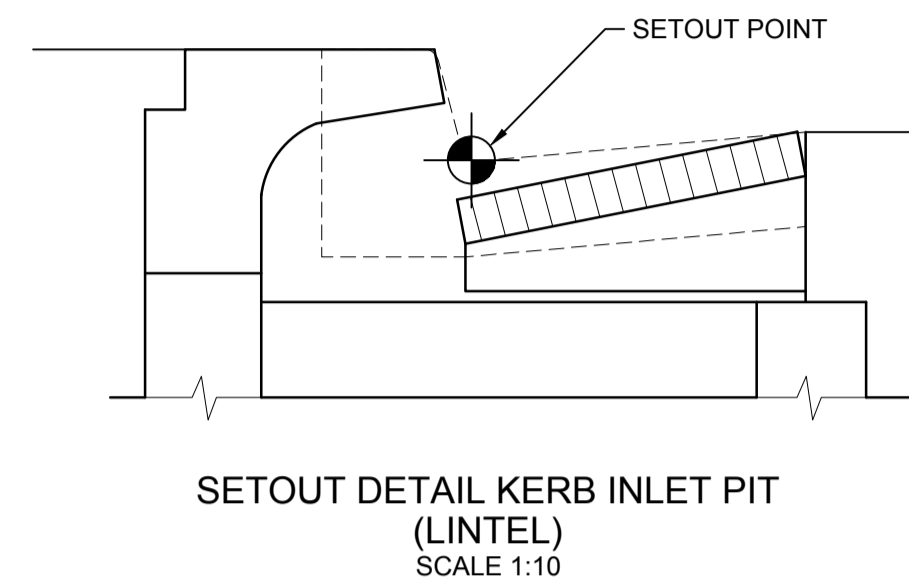
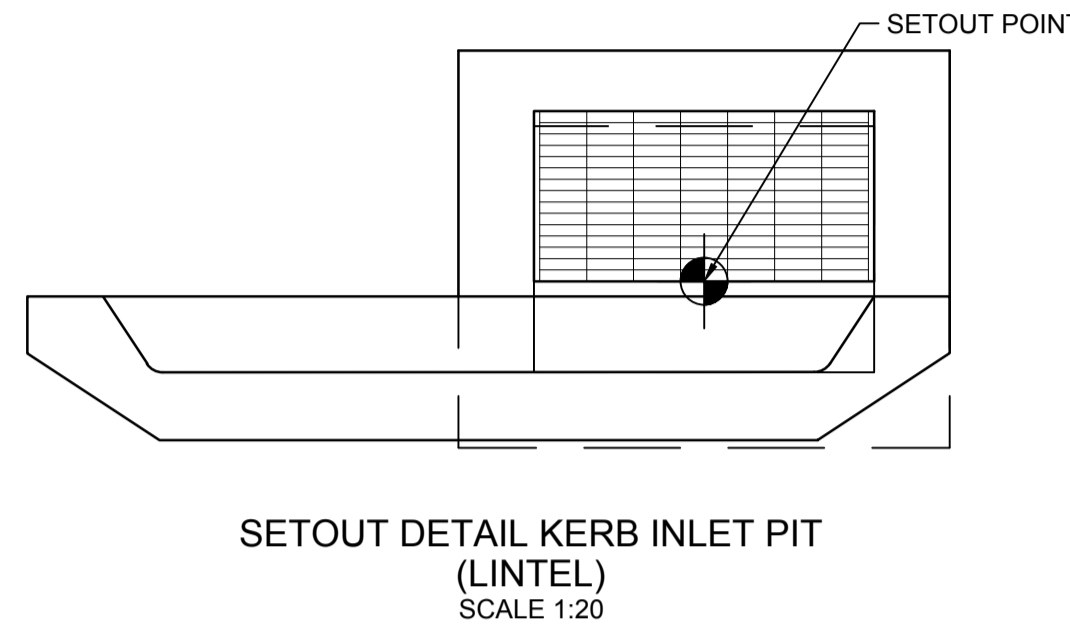
AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC19403

PROJECT No:
9985-12

SHEET No:
CC19403

C

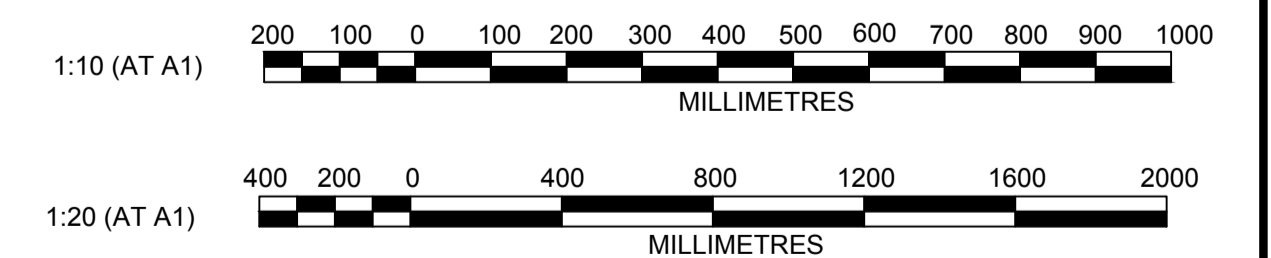
PIT SCHEDULE					
PIT NAME (-)	SURFACE FITTING TYPE AND SIZE (-)	PIT EASTING (m)	PIT NORTHING (m)	PIT DEPTH (m)	COMMENTS
A10/1	1.8 m lintel	294949.99	6268646.35	1.53	
A10/2	2.4 m lintel	294919.05	6268650.93	1.54	
A10/3	2.4 m lintel	294886.62	6268655.72	1.57	
A10/4	2.4 m lintel	294854.58	6268660.46	1.62	
A10/5	2.4 m lintel	294832.62	6268663.71	1.62	
A10/6	1.8 m lintel	294813.57	6268666.53	1.69	
A10/7	1.8 m lintel	294798.29	6268668.79	1.7	
A12/1	2.4 m lintel	294907.01	6268724.99	1.53	CHAMBER WITH TEMPORARY GRATED INLET
A12/2	2.4 m lintel	294869.12	6268730.59	1.51	CHAMBER WITH TEMPORARY GRATED INLET
A12/3	1.8 m lintel	294862.76	6268743.52	1.48	CHAMBER ONLY
A12/4	1.8 m lintel	294801.73	6268755.72	1.54	CHAMBER ONLY
A12/5	1.8 m lintel	294765.57	6268776.56	2.16	SPECIAL PIT - SEE CC19450, CHAMBER ONLY
A12/6	1.8 m lintel	294756.24	6268789.04	2.02	SPECIAL PIT - SEE CC19450, CHAMBER ONLY
A12/7	1.8 m lintel	294749.44	6268810.06	1.9	CHAMBER ONLY
A12/8	1.8 m lintel	294748.71	6268826.79	1.9	CHAMBER ONLY
A12/9	1.8 m lintel	294748.99	6268839.49	1.91	CHAMBER ONLY
A12/10	1.8 m lintel	294749.24	6268850.57	1.92	CHAMBER ONLY
A12/11	JP SEALED 900 x 900	294753.61	6268869.43	2.26	SPECIAL PIT - SEE CC19450
A12/12	JP SEALED 900 x 900	294760.34	6268925	2.11	SPECIAL PIT - SEE CC19450
A12/13	JP SEALED 900 x 900	294769.55	6269001.03	2.02	SPECIAL PIT - SEE CC19450
A12/14	JP SEALED 900 x 900	294772.73	6269027.25	1.88	
A13/1	2.4 m lintel	294914.78	6268579.62	1.46	
A13/2	1.8 m lintel	294910	6268589.34	1.53	
A13/3	1.8 m lintel	294845.06	6268598.05	1.55	
A13/4	1.8 m lintel	294789.45	6268605.51	1.56	
A13/5	1.8 m lintel	294776.17	6268612.56	1.43	
A13/6	1.8 m lintel	294774.37	6268627.97	1.53	
A13/7	2.4 m lintel	294778.44	6268655.53	1.54	
A13/8	2.4 m lintel sag	294786.18	6268667.24	1.77	
A13/9	2.4 m lintel sag	294781.73	6268677.07	1.83	
A13/10	IAD 900x900 GRATED	294764.38	6268716.99	3.19	SPECIAL PIT - SEE CC19450
A13/11	1.8 m lintel	294758.74	6268727.81	1.78	SPECIAL PIT - SEE CC19450, CHAMBER ONLY
A47/1	1.8 m lintel	294846.95	6268588.72	1.46	
A48/1	1.8 m lintel	294790.07	6268596.35	1.45	
A49/1	1.8 m lintel	294768.27	6268648.24	1.47	
A52/1	2.4 m lintel	294927.9	6268658.72	1.47	
A53/1	2.4 m lintel	294888.15	6268664.59	1.44	
A54/1	1.8 m lintel	294858.26	6268669.02	1.45	
A55/1	2.4 m lintel	294824.86	6268673.96	1.47	
A58/1	2.4 m lintel	294802.13	6268737.33	1.45	CHAMBER WITH TEMPORARY GRATED INLET
AA/1	IAD 600x900			0.77	
AA/2	IAD 600x900			0.84	
AA/3	IAD 600x900			0.85	
AA/4	IAD 600x900			0.85	
AA/5	IAD 600x900			0.85	
AA/6	IAD 600x900			0.85	
AA/7	IAD 600x900			0.91	
AA/8	IAD 600x900			0.93	
AA/9	IAD 600x900			0.93	
AA/10	IAD 600x900			0.93	
AA/11	IAD 600x900			0.93	
AA/12	IAD 600x900			0.93	
AA/13	IAD 600x900			0.93	
AA/14	IAD 600x900			0.93	
AA/15	IAD 600x900			0.99	
AA/16	IAD 600x900			1.02	
AA/17	IAD 900x900			1.54	
AH/1	IAD 600x900			0.84	
AH/2	IAD 600x900			0.85	
AH/3	IAD 600x900			0.91	
AH/4	IAD 600x900			1.04	
AH/5	IAD 600x900			0.99	
AL/1	IAD 600x900			0.87	
AL/2	IAD 600x900			0.89	
AL/3	IAD 600x900			0.9	
AP/1	IAD 600x900			0.76	
AP/2	IAD 900x900			1.54	



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F

LDC Plans and specifications referenced in certificate no. **17312** issued by **Christopher Louis Wahbe** Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision
 Land Development Certificates www.LDC.com.au



Plotted: 16 May, 2023 1:51:25 PM File Name: J:\985EDICC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\985-12-CC19410.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE	
D		DG	DG	MS	MS	16/05/23
C		KE	JM	MS	MS	17/02/23
B		DG	DG	KE	KE	29/11/22
A		DG	NDW	KE	MS	08/06/22

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 7F
 PIT SCHEDULE & DETAILS

PROJECT No: **9985-12**
 SHEET No: **CC19410**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC19410** D

Plotted: 16 May, 2023 11:17:41 AM File Name: J:\9895D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9895-12-CC19411.dwg

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 (m/s^2)	COMMENTS (-)
A10/1	1.8 m lintel	0.075	85	5	5	15	28	26	2	73	1.8	3	A10/2	42	1.61		0.07
A10/2	2.4 m lintel	0.109	85	5	5	25	42	41	1	74	1.8	3	A10/3	44	1.62		0.07
A10/3	2.4 m lintel	0.116	85	5	5	25	44	41	3	74	1.8	3	A10/4	45	1.62		0.07
A10/4	2.4 m lintel	0.115	85	5	5	15	45	42	3	67	1.8	3	A10/5	32	1.39		0.06
A10/5	2.4 m lintel	0.08	85	5	5	25	32	32	0	64	1.8	3	A10/6	26	1.25		0.06
A10/6	1.8 m lintel	0.07	85	5	5	5	26	25	1	37	1.8	3	A10/7	6	0.99		0.02
A10/7	1.8 m lintel	0.013	95	5	5	15	6	6	0	56	1.6	3	A13/8	12	0.99		0.03
A12/1	2.4 m lintel	0.134	85	5	5	25	50	48	2	78	1	3	A12/2	61	1.75		0.09
A12/2	2.4 m lintel	0.16	85	5	5	15	61	56	5	71	3.6	3	A58/1	60	1.51		0.11
A12/3	1.8 m lintel	0.055	95	5	5	15	21	21	0	56	4.1	3	A12/4	27	1.06		0.07
A12/4	1.8 m lintel	0.073	95	5	5	15	27	27	1	58	4.2	2.9	A12/5	23	1.24		0.05
A12/5	1.8 m lintel	0.062	95	5	5	15	23	23	1	63	1.8	2	A12/6	26	1.24		0.06
A12/6	1.8 m lintel	0.066	95	5	5	15	26	23	3	62	1.8	-0.5	A12/7	19	1.19		0.04
A12/7	1.8 m lintel	0.044	85	5	5	15	19	18	1	56	0.8	1	A12/8	11	1.02		0.03
A12/8	1.8 m lintel	0.029	85	5	5	15	11	11	0	45	0.6	0.9	A12/9	6	0.67		0.02
A12/9	1.8 m lintel	0.015	85	5	5	5	6	6	0	46	0.6	1.2	A12/10	6	1.85		0.01
A12/10	1.8 m lintel	0.016	95	5	5	25	6	6	0	81	0.6	1.4	A34/1	41	0.98		0.08
A12/11	JP SEALED 900 x 900		0			5	0	0	0	0							
A12/12	JP SEALED 900 x 900		0	5	5	5	0	0	0	0							
A12/13	JP SEALED 900 x 900		0	5	5	5	0	0	0	0							
A12/14	JP SEALED 900 x 900		0	5	5	5	0	0	0	0							
A13/1	2.4 m lintel	0.093	95	5	5	15	34	33	0	62	1.7	3	A47/1	24	1.22		0.05
A13/2	1.8 m lintel	0.057	95	5	5	15	21	21	0	58	1.7	3	A13/3	19	1.07		0.05
A13/3	1.8 m lintel	0.053	95	5	5	15	19	19	0	56	1.7	3	A13/4	16	0.99		0.04
A13/4	1.8 m lintel	0.045	95	5	5	15	16	16	0	32	1.7	3	A13/5	4	1.17		0.01
A13/5	1.8 m lintel	0.012	95	5	5	25	4	4	0	61	2.6	2.9	A13/6	24	1.52		0.04
A13/6	1.8 m lintel	0.063	95	5	5	15	24	24	0	71	1.7	3	A13/7	38	1.52		0.07
A13/7	2.4 m lintel	0.1	85	5	5	15	38	36	2	60	1.6	3	A13/8	15	1.13		0.04
A13/8	2.4 m lintel sag	0.068	85	5	5	15	26	33	0	44	0.2	2.7	A13/9	0	0		0
A13/9	2.4 m lintel sag	0.156	85	5	5	25	53	69	0	65	0.2	3.3	A13/10	0	0		0
A13/10	IAD 900x900	0.079	80	5	5	15	12	12	0	21			A13/11	4	1.45		0.02
A13/11	1.8 m lintel	0.083	95	5	5	25	31	27	5	69	1.4	1.1	A14/9	26	1.45		0.05
A47/1	1.8 m lintel	0.064	95	5	5	15	24	24	0	59	1.7	3	A48/1	20	1.41		0.04
A48/1	1.8 m lintel	0.054	95	5	5	15	20	20	0	68	1.7	3	A49/1	31	1.41		0.06
A49/1	1.8 m lintel	0.075	95	5	5	25	28	26	2	66	1.7	3	A13/9	23	1.33		0.05
A52/1	2.4 m lintel	0.151	85	5	5	25	57	53	4	79	1.8	3	A53/1	56	1.78		0.08
A53/1	2.4 m lintel	0.142	85	5	5	25	56	50	6	74	1.8	3	A54/1	45	1.62		0.07
A54/1	1.8 m lintel	0.107	85	5	5	25	45	40	5	74	1.8	3	A55/1	44	1.61		0.07
A55/1	2.4 m lintel	0.109	85	5	5	15	44	41	3	70	1.8	3	A13/9	33	1.47		0.06
A58/1	2.4 m lintel	0.148	85	5	5	15	60	56	4	62	4.4	3	A13/11	27	1.19		0.06

DESIGN STORM 10% AEP HYDRAULIC RESULTS																					
PIPE NAME (-)	PIPE DIAMETER (mm)	PIPE TYPE (-)	PIPE LENGTH (m)	PIPE GRADE (%)	CRITICAL STORM (min)	PEAK FLOW (L/s)	CAPACITY RATIO (-)	PEAK VELOCITY (m/s)	PIPE U/S IL (m)	PIPE D/S IL (m)	PIPE D/S DROP (m)	U/S PIT Ku (-)	D/S PIT Kw (-)	PIT LOSS (Ku.V^head)	WSE LOSS (Kw.V^head)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL GRADE (%)	MINIMUM COVER (m)	MINIMUM FREEBOARD (m)	COMMENTS
A10/1 to A10/2	375	RRJ2	31.28	1.63	25	39	0.16	1.1	19.981	19.471	0.055	3.98	4.2	0.07	0.03	20.029	19.642	1.24	1.1	1.411	
A10/2 to A10/3	375	RRJ2	32.79	1.62	25	136	0.56	1.75	19.416	18.884	0.092	1.51	1.52	0.12	0.12	19.536	19.396	0.43	1.1	1.312	
A10/3 to A10/4	375	RRJ2	32.39	1.51	20	212	0.91	2.03	18.792	18.305	0.137	1.05	1.04	0.14	0.18	19.292	18.967	1	1.1	0.97	
A10/4 to A10/5	450	RRJ2	22.2	1.54	20	281	0.73	2.11	18.168	17.826	0.055	0.84	0.78	0.17	0.12	18.889	18.746	0.64	1.1	0.82	
A10/5 to A10/6	450	RRJ2	19.26	1.53	25	286	0.75	2.06	17.771	17.476	0.121	0.64	0.63	0.15	0.09	18.683	18.533	0.78	1.1	0.644	
A10/6 to A10/7	525	RRJ2	15.44	1.48	25	469	0.83	2.17	17.354	17.127	0.05	0.61	0.57	0.14	0.12	18.422	18.266	1.01	1.1	0.513	
A10/7 to A13/8	525	RRJ2	12.21	1	25	473	1.02	2.19	17.077	16.954	0.05	0.31	0.28	0.07	0.07	18.201	18.075	1.03	1.27	0.51	
A12/1 to A12/2	375	RRJ2	38.3	2.16	25	48	0.17	1.13	19.518	18.692	0.05	4.5	4.5	0.08	0.04	19.556	18.92	1.66	1.1	1.417	
A12/2 to A12/3	375	RRJ2	14.41	1.78	25	105	0.42	1.56	18.642	18.385	0.05	4.13	3.71	0.2	0.13	18.728	18.554	1.21	1.1	1.227	
A12/3 to A12/4	375	RRJ2	62.24	4.06	25	125	0.33	2.91	18.335	15.811	0.229	1.36	1.43	0.03	0.09	18.462	15.958	4.02	1.1	1.314	
A12/4 to A12/5	375	RRJ2	41.73	2.45	20	206	0.69	2.54	15.582	14.56	0.555	0.91	0.9	0.1	0.15	15.823	15.62	0.49	1.12	1.211	
A12/5 to A12/6	825	RRJ2	15.58	0.7	25	1173	0.9	2.19	14.006	13.897	0.03	0.6	0.6	0.14	0.14	15.495	15.421	0.48	1.09	0.358	
A12/6 to A12/7	825	RRJ2	22.1	0.5	25	1171	1.07	2.19	13.867	13.756	0.03	0.34	0.33	0.08	0.08	15.355	15.252	0.47	0.97	0.275	
A12/7 to A12/8	825	RRJ2	16.74	0.5	25	1180	1.07	2.21	13.726	13.642	0.03	0.3	0.3	0.08	0.08	15.192	15.111	0.48	0.96	0.192	
A12/8 to A12/9	825	RRJ2	12.7	0.5	25	1184	1.08	2.21	13.612	13.549	0.03	0.25	0.25	0.06	0.06	15.062	15	0.49	0.82	0.211	
A12/9 to A12/10	825	RRJ2	11.09	0.5	25	1185	1.08	2.22	13.519	13.463	0.03	0.22	0.22	0.05	0.05	14.954	14.9	0.49	0.83	0.241	
A12/10 to A12/11	825	RRJ2	19.36	0.5	25	1185	1.08	2.24	13.433	13.337	0.03	0.26	0.26	0.06	0.06	14.847	14.751	0.5	1	0.269	
A12/11 to A12/12	825	RRJ2	55.98	0.5	15	1172	1.07	2.29	13.307	13.027	0.03	0.22	0.22	0.06	0.05	14.704	14.426	0.5	0.99	0.624	
A12/12 to A12/13	825	RRJ2	76.59	0.5	20	1129	1.03	2.29	12.997	12.614	0.03	0.2	0.2	0.06	0.04	14.383	14.005	0.49	0.93	0.498	
A12/13 to A12/14	900	RRJ2	26.4	0.5	15	1205	0.87	2.16	12.584	12.452	0.03	0	0	0	0	14.005	13.923	0.31	0.79	0.416	
A12/14 to A12/15	900	RRJ3	55.57	0.5	15	1110	0.8	1.92	12.422	12.144	0.03	1.1	1.1	0.19	0.17	13.757	13.585	0.31	0.73	0.187	
A13/1 to A13/2	375	RRJ2	10.84	1	25	34	0.18	0.79	20.634	20.526	0.065	8.68	8.68	0.12	0.04	20.72	20.632	0.81	1.1	1.252	
A13/2 to A13/3	375	RRJ2	65.52	1.64	25	54	0.22	1.66	20.461	19.388	0.059	3.74	2.2	0.03	0.03	20.561	19.508	1.61	1.1	1.399	
A13/3 to A13/4	375	RRJ2	56.12	1.6	25	95	0.4	1.74	19.329	18.434	0.073	1.04	1.03	0.04	0.04	19.455	18.662	1.41	1.1	1.384	
A13/4 to A13/5	375	RRJ2	15.03	1	25	130	0.68	1.56	18.361	18.211	0.05	0.98	0.81	0.08	0.06	18.587	18.443	0.96	1.16	1.262	
A13/5 to A13/6	375	RRJ2	15.52	1.49	15	134	0.58	1.7	18.161	17.93	0.196	1.1	1.14	0.14	0.09	18.322	18.293	0.19	1.1	1.147	
A13/6 to A13/7	375	RRJ2	27.86	1.53	25	151	0.64	1.68	17.735	17.308	0.05	1.02	0.92	0.12	0.07	18.229	18.053	0.63	1.1	0.973	
A13/7 to A13/8	450	RRJ2	14.04	1	25	201	0.65	1.44	17.258	17.117	0.213	4.46	0.99	0.11	0.07	17.992	17.933	0.42	1.19	0.74	
A13/8 to A13/9	600	RRJ2	10.79	1	25	718	1.08	2.59	16.904	16.797	0.035	1.45	1.55	0.44	0.46	17.492	17.334	1.46	1.19	0.737	
A13/9 to A13/10	600	RRJ2	43.53	2.26	25	894	0.89	3.44	16.762	15.78	1.256	0.54	0.52	0.15	0.23						

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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)	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 (-)
AA/1	IAD 600x900	0.045	80	5	5	25	20	20	0	0							
AA/2	IAD 600x900	0.027	80	5	5	15	12	12	0	0							
AA/3	IAD 600x900	0.027	80	5	5	15	12	12	0	0							
AA/4	IAD 600x900	0.028	80	5	5	15	12	12	0	0							
AA/5	IAD 600x900	0.028	80	5	5	15	12	12	0	0							
AA/6	IAD 600x900	0.028	80	5	5	15	12	12	0	0							
AA/7	IAD 600x900	0.035	80	5	5	15	15	15	0	0							
AA/8	IAD 600x900	0.028	80	5	5	15	12	12	0	0							
AA/9	IAD 600x900	0.028	80	5	5	15	12	12	0	0							
AA/10	IAD 600x900	0.028	80	5	5	15	12	12	0	0							
AA/11	IAD 600x900	0.036	80	5	5	25	16	16	0	0							
AA/12	IAD 600x900	0.036	80	5	5	25	16	16	0	0							
AA/13	IAD 600x900	0.029	80	5	5	25	13	13	0	0							
AA/14	IAD 600x900	0.029	80	5	5	25	13	13	0	0							
AA/15	IAD 600x900	0.029	80	5	5	15	13	13	0	0							
AA/16	IAD 600x900		0			5	0	0	0	0							
AA/17	IAD 900x900		0			5	0	0	0	0							
AH/1	IAD 600x900	0.114	80	5	5	25	50	50	0	0							
AH/2	IAD 600x900	0.05	80	5	5	15	22	22	0	0							
AH/3	IAD 600x900	0.05	80	5	5	15	22	22	0	0							
AH/4	IAD 600x900	0.056	80	5	5	15	24	24	0	0							
AH/5	IAD 600x900	0.055	80	5	5	15	24	24	0	0							
AL/1	IAD 600x900	0.083	80	5	5	15	36	36	0	0							
AL/2	IAD 600x900	0.078	80	5	5	25	34	34	0	0							
AL/3	IAD 600x900	0.077	80	5	5	15	33	33	0	0							
AP/1	IAD 600x900	0.034	80	5	5	15	15	15	0	0							
AP/2	IAD 900x900		0			5	0	0	0	0							

DESIGN STORM 5% AEP HYDRAULIC RESULTS																					
PIPE NAME (-)	PIPE DIAMETER (mm)	PIPE TYPE (-)	PIPE LENGTH (m)	PIPE GRADE (%)	CRITICAL STORM (min)	PEAK FLOW (L/s)	CAPACITY RATIO (-)	PEAK VELOCITY (m/s)	PIPE U/S IL (m)	PIPE D/S IL (m)	PIPE D/S DROP (m)	U/S PIT Ku (-)	D/S PIT Kw (-)	PIT LOSS (Ku.Vhead) (m)	WSE LOSS (Kw.Vhead) (m)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL GRADE (%)	MINIMUM COVER (m)	MINIMUM FREEBOARD (m)	COMMENTS
AA/1 to AA/2	150	uPVC	10	3	15	19	0.56	1.32	21.915	21.615	0.104	4.54	4.54	0.1	0.22	22.009	21.696	3.13	0.6	0.575	
AA/2 to AA/3	225	uPVC	10	1.6	15	37	0.5	1.39	21.512	21.352	0.03	1.13	1.12	0.08	0.02	21.633	21.652	-0.19	0.6	0.694	
AA/3 to AA/4	225	uPVC	10	1.46	15	45	0.64	1.25	21.322	21.177	0.03	1.24	1.24	0.1	0.07	21.588	21.529	0.59	0.6	0.519	
AA/4 to AA/5	225	uPVC	10	1.46	25	56	0.79	1.4	21.147	21.001	0.03	1.07	1.07	0.09	0.08	21.453	21.366	0.87	0.6	0.467	
AA/5 to AA/6	225	uPVC	10	1.46	15	65	0.93	1.64	20.971	20.825	0.03	0.95	0.93	0.1	0.1	21.277	21.152	1.25	0.6	0.454	
AA/6 to AA/7	225	uPVC	12.5	1.52	25	76	1.05	1.92	20.795	20.606	0.092	0.87	0.76	0.1	0.12	21.075	20.832	1.94	0.6	0.492	
AA/7 to AA/8	300	uPVC	10	1.6	25	95	0.6	2.08	20.514	20.354	0.03	5.36	0.69	0.02	0	20.832	20.782	0.5	0.6	0.593	
AA/8 to AA/9	300	uPVC	10	1.46	15	102	0.67	1.69	20.324	20.178	0.03	0.64	0.66	0.1	0.06	20.727	20.665	0.62	0.6	0.468	
AA/9 to AA/10	300	uPVC	10	1.46	15	111	0.73	1.73	20.148	20.002	0.03	0.61	0.61	0.1	0.07	20.604	20.529	0.75	0.6	0.409	
AA/10 to AA/11	300	uPVC	12.5	1.52	15	121	0.78	1.86	19.972	19.782	0.03	0.62	0.57	0.11	0.07	20.462	20.353	0.87	0.6	0.369	
AA/11 to AA/12	300	uPVC	12.5	1.51	25	133	0.86	1.88	19.752	19.563	0.03	0.66	0.66	0.12	0.09	20.263	20.133	1.04	0.6	0.325	
AA/12 to AA/13	300	uPVC	10	1.46	25	146	0.96	2.07	19.533	19.387	0.03	0.64	0.56	0.11	0.11	20.029	19.905	1.24	0.6	0.326	
AA/13 to AA/14	300	uPVC	10	1.46	25	157	1.03	2.22	19.357	19.211	0.03	0.47	0.47	0.11	0.11	19.814	19.67	1.44	0.6	0.378	
AA/14 to AA/15	300	uPVC	10	1.46	25	169	1.11	2.39	19.181	19.035	0.091	0.46	0.46	0.12	0.12	19.573	19.418	1.55	0.6	0.437	
AA/15 to AA/16	375	uPVC	1.36	1	25	203	0.89	2.13	18.945	18.931	0.05	7.44	0.67	0.02	0	19.418	19.412	0.44	0.6	0.513	
AA/16 to AA/17	375	uPVC	27.35	1.82	25	182	0.59	2.07	18.881	18.382	0.572	1.91	2.32	0.23	0.3	19.203	19.064	0.51	0.6	0.492	
AA/17 to A10/6	375	RRJ2	4.36	1.99	25	177	0.66	1.61	17.81	17.724	0.369	2.06	2.53	0.21	0.26	18.893	18.862	0.71	1.1	0.284	
AH/1 to AH/2	225	uPVC	14	1.97	25	49	0.6	1.24	18.545	18.269	0.03	6.37	5.36	0.19	0.28	18.811	18.6	1.51	0.6	0.405	
AH/2 to AH/3	225	uPVC	14	2.01	25	71	0.85	1.95	18.239	17.957	0.097	1.39	1.32	0.11	0.17	18.505	18.117	2.77	0.6	0.486	
AH/3 to AH/4	300	uPVC	19.83	1	25	95	0.76	1.6	17.86	17.662	0.05	0.35	0.35	0.05	0.02	18.059	18.003	0.28	0.6	0.696	
AH/4 to AH/5	300	uPVC	19.57	1	25	117	0.93	1.77	17.612	17.416	0.05	1.12	1.04	0.12	0.12	17.882	17.645	1.21	0.65	0.65	
AH/5 to A13/10	300	uPVC	25.25	2.2	25	138	0.74	2.36	17.366	16.81	2.286	0.9	0.88	0.1	0.16	17.543	17.002	2.14	0.6	0.717	
AL/1 to AL/2	225	uPVC	21.55	2.92	25	36	0.36	1.18	18.003	17.374	0.05	6.22	6.22	0.14	0.21	18.038	17.837	0.93	0.6	0.693	
AL/2 to AL/3	225	uPVC	21.04	1	25	69	1.18	1.73	17.324	17.114	0.056	2.79	1.71	0.13	0.2	17.745	17.343	1.91	0.63	0.374	
AL/3 to A13/10	300	uPVC	2.49	8.74	25	101	0.27	2.25	17.058	16.84	2.317	1.48	0.87	0.09	0.08	17.263	16.947	12.68	0.6	0.618	
AP/1 to AP/2	150	uPVC	14.85	1.73	25	15	0.56	1.03	21.364	21.108	0.812	6.69	6.69	0.1	0.19	21.426	21.189	1.6	0.6	0.598	
AP/2 to D/1	375	RRJ2	4.72	2.22	25	15	0.05	0.99	20.296	20.191	0.21	2.09	3.24	0.06	0	20.322	20.249	1.55	1.1	1.456	

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F

LDC Plans and specifications referenced in certificate no. **17312** issued by **Christopher Louis Wahbe** Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision
 Land Development Certificates www.LDC.com.au

B	DRAINAGE CALCULATIONS UPDATED	KE	JM	MS	MS	17/02/23
A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

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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 7F DRAINAGE CALCULATIONS SHEET 2

PROJECT No: **9985-12**
 SHEET No: **CC19412**
 PLAN No: **9985-12-CC19412**

AZIMUTH: M.G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC19412	B
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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)	VvD AT BYPASS PIT (m/s^2)	COMMENTS (-)
A10/1	1.8 m lintel	0.075	85	5	5	15	43	30	13	85	1.8	3	A10/2	71	2.08	0.09	
A10/2	2.4 m lintel	0.109	85	5	5	15	71	51	20	88	1.8	3	A10/3	80	2.17	0.1	
A10/3	2.4 m lintel	0.116	85	5	5	15	80	52	28	91	1.8	3	A10/4	88	2.17	0.11	
A10/4	2.4 m lintel	0.115	85	5	5	15	88	56	32	86	1.8	3	A10/5	74	2.01	0.1	
A10/5	2.4 m lintel	0.08	85	5	5	15	74	49	25	81	1.8	3	A10/6	61	2.65	0.09	
A10/6	1.8 m lintel	0.07	85	5	5	15	61	35	137	105	1.8	3	A10/7	143	3.94	0.1	
A10/7	1.8 m lintel	0.013	95	5	5	15	143	24	259	143	1.6	3	A13/8	274	5.62	0.11	
A12/1	2.4 m lintel	0.134	85	5	5	15	78	55	23	92	1	3	A12/2	106	2.21	0.12	
A12/2	2.4 m lintel	0.16	85	5	5	15	106	68	38	86	3.6	3	A58/1	114	2.01	0.15	
A12/3	1.8 m lintel	0.055	95	5	5	15	29	23	7	66	4.1	3	A12/4	45	1.48	0.08	
A12/4	1.8 m lintel	0.073	95	5	5	15	45	32	13	70	4.2	2.9	A12/5	45	1.68	0.07	
A12/5	1.8 m lintel	0.062	95	5	5	15	45	31	15	76	1.8	2	A12/6	49	2.04	0.07	
A12/6	1.8 m lintel	0.066	95	5	5	15	49	29	20	87	1.8	-0.5	A12/7	61	3.91	0.06	
A12/7	1.8 m lintel	0.044	85	5	5	15	61	-101	236	142	0.8	1	A12/8	246	3.91	0.15	
A12/8	1.8 m lintel	0.029	85	5	5	15	246	55	88	140	0.6	0.9	A12/9	221	3.84	0.14	
A12/9	1.8 m lintel	0.015	85	5	5	15	221	76	145	124	0.6	1.2	A12/10	150	3.3	0.11	
A12/10	1.8 m lintel	0.016	95	5	5	15	150	60	90	123	0.6	1.4	A34/1	123	1.88	0.14	
A12/11	JP SEALED 900 x 900		0			10	0	0	0	0							
A12/12	JP SEALED 900 x 900		0	5	5	10	0	0	0	0							
A12/13	JP SEALED 900 x 900		0	5	5	10	0	0	0	0							
A12/14	JP SEALED 900 x 900		0	5	5	10	0	0	0	0							
A13/1	2.4 m lintel	0.093	95	5	5	15	58	44	14	75	1.7	3	A47/1	46	1.65	0.07	
A13/2	1.8 m lintel	0.057	95	5	5	15	30	23	7	69	1.7	3	A13/3	34	1.44	0.06	
A13/3	1.8 m lintel	0.053	95	5	5	15	34	26	8	67	1.7	3	A13/4	31	1.39	0.06	
A13/4	1.8 m lintel	0.045	95	5	5	15	31	24	7	50	1.7	3	A13/5	13	1.43	0.03	
A13/5	1.8 m lintel	0.012	95	5	5	15	13	11	3	69	2.6	2.9	A13/6	36	1.89	0.05	
A13/6	1.8 m lintel	0.063	95	5	5	15	36	27	9	83	1.7	3	A13/7	62	1.89	0.09	
A13/7	2.4 m lintel	0.1	85	5	5	15	62	44	19	79	1.6	3	A13/8	38	5.4	0.04	
A13/8	2.4 m lintel sag	0.068	85	5	5	15	252	184	67	178	0.2	2.7	A13/9	73	0	0	
A13/9	2.4 m lintel sag	0.156	85	5	5	15	155	145	0	153	0.2	3.3	A13/10	4	8.63	0	
A13/10	IAD 900x900	0.079	80	5	5	15	17	14	3	30			A13/11	9	4.02	0.02	
A13/11	1.8 m lintel	0.083	95	5	5	15	81	-107	289	146	1.4	1.1	A14/9	309	4.02	0.18	
A47/1	1.8 m lintel	0.064	95	5	5	15	46	33	13	72	1.7	3	A48/1	39	1.78	0.06	
A48/1	1.8 m lintel	0.054	95	5	5	15	39	29	10	79	1.7	3	A49/1	51	2.24	0.08	
A49/1	1.8 m lintel	0.075	95	5	5	15	47	32	16	81	1.7	3	A13/9	46	4.94	0.03	
A52/1	2.4 m lintel	0.151	85	5	5	15	81	56	25	94	1.8	3	A53/1	98	2.27	0.11	
A53/1	2.4 m lintel	0.142	85	5	5	15	98	60	38	92	1.8	3	A54/1	93	2.21	0.11	
A54/1	1.8 m lintel	0.107	85	5	5	15	93	57	36	92	1.8	3	A55/1	93	2.21	0.11	
A55/1	2.4 m lintel	0.109	85	5	5	15	93	58	35	90	1.8	3	A13/9	77	5.18	0.06	
A58/1	2.4 m lintel	0.148	85	5	5	15	114	72	42	82	4.4	3	A13/11	74	2.65	0.1	

DESIGN STORM 1% AEP HYDRAULIC RESULTS

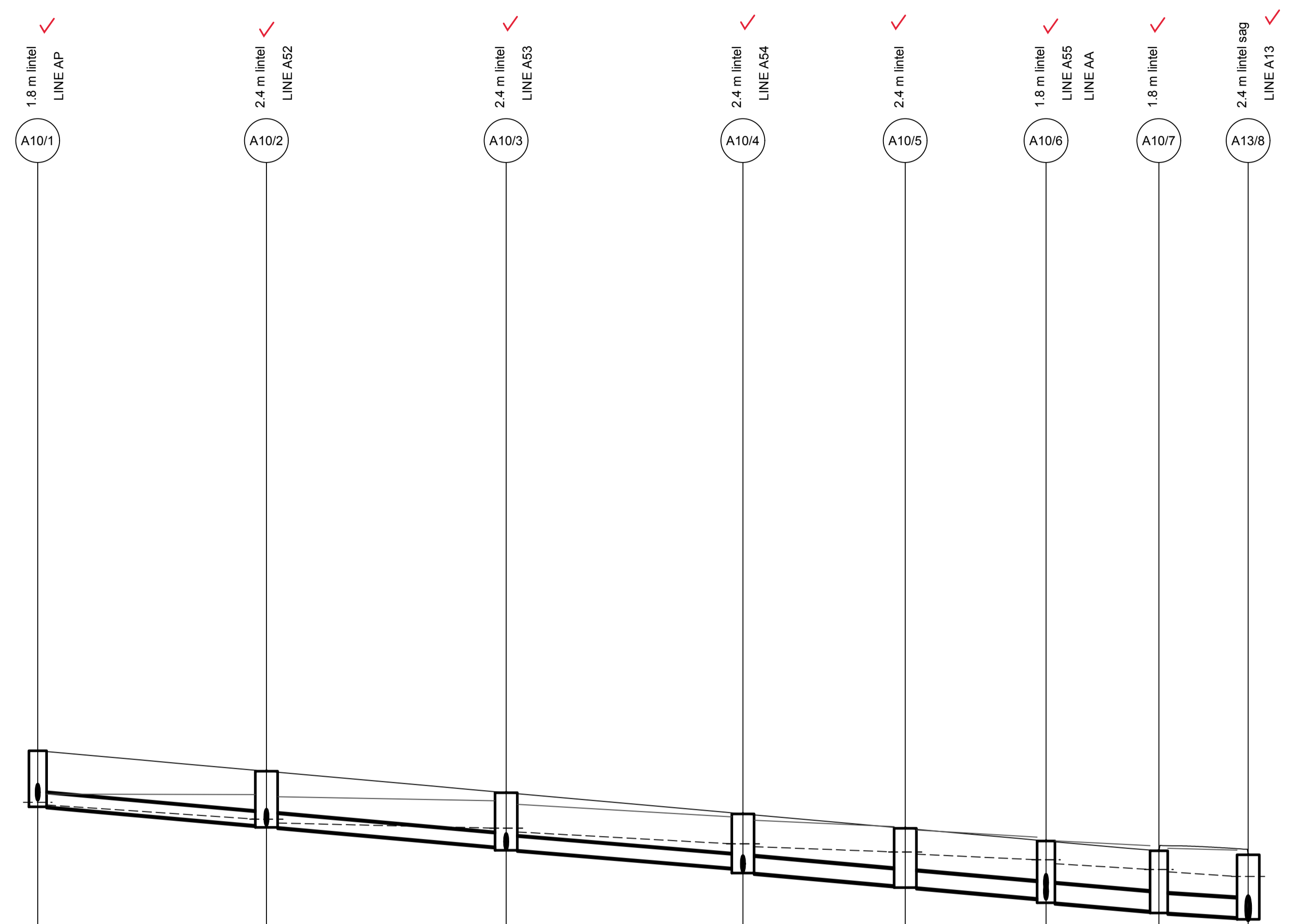
PIPE NAME (-)	PIPE DIAMETER (mm)	PIPE TYPE (-)	PIPE LENGTH (m)	PIPE GRADE (%)	CRITICAL STORM (min)	PEAK FLOW (L/s)	CAPACITY RATIO	PEAK VELOCITY (m/s)	PIPE U/S I/L (m)	PIPE D/S I/L (m)	PIPE D/S DROP (m)	U/S PIT Ku (-)	D/S PIT Kw (-)	PIT LOSS (Ku.V/head) (m)	WSE LOSS (Kw.V/head) (m)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL GRADE (%)	MINIMUM COVER (m)	MINIMUM FREEBOARD (m)	COMMENTS
A10/1 to A10/2	375	RRJ2	31.28	1.63	20	52	0.22	1.13	19.981	19.471	0.055	6.49	3.72	0.14	0.04	20.327	20.316	0.04	1.1	1.169	
A10/2 to A10/3	375	RRJ2	32.79	1.62	120	142	0.59	1.73	19.416	18.884	0.092	1.93	1.61	0.16	0.14	20.256	20.147	0.33	1.1	0.637	
A10/3 to A10/4	375	RRJ2	32.39	1.51	10	213	0.91	2	18.792	18.305	0.137	1.28	1.13	0.15	0.2	20.048	19.704	1.06	1.1	0.219	
A10/4 to A10/5	450	RRJ2	22.2	1.54	10	285	0.74	2.05	18.168	17.826	0.055	0.91	0.87	0.19	0.14	19.611	19.437	0.78	1.1	0.084	
A10/5 to A10/6	450	RRJ2	19.26	1.53	10	312	0.82	2.01	17.771	17.476	0.121	0.75	0.77	0.17	0.1	19.346	19.151	1.01	1.1	-0.08	
A10/6 to A10/7	525	RRJ2	15.44	1.48	10	495	0.87	2.29	17.354	17.127	0.05	0.59	0.59	0.15	0.15	19.049	18.92	0.84	1.1	-0.105	
A10/7 to A13/8	525	RRJ2	12.21	1	10	515	1.11	2.38	17.077	16.954	0.05	0.5	0.5	0.11	0.11	18.846	18.797	0.4	1.27	-0.143	
A12/1 to A12/2	375	RRJ2	38.3	2.16	15	54	0.2	1.11	19.518	18.692	0.05	4.5	4.5	0.08	0.06	19.551	18.968	1.52	1.1	1.415	
A12/2 to A12/3	375	RRJ2	14.41	1.78	15	124	0.49	1.59	18.642	18.385	0.05	3.91	3.42	0.23	0.2	18.752	18.57	1.26	1.1	1.179	
A12/3 to A12/4	375	RRJ2	62.24	4.06	20	160	0.42	2.99	18.335	15.811	0.229	1.36	1.38	0.06	0.14	18.47	16.745	2.77	1.1	1.301	
A12/4 to A12/5	375	RRJ2	41.73	2.45	10	231	0.78	2.56	15.582	14.56	0.555	1.18	1.01	0.11	0.2	16.672	16.014	1.58	1.12	0.375	
A12/5 to A12/6	825	RRJ2	15.58	0.7	20	1298	1	2.43	14.006	13.897	0.03	0.61	0.61	0.18	0.18	15.873	15.785	0.56	1.09	-0.075	
A12/6 to A12/7	825	RRJ2	22.1	0.5	20	1303	1.19	2.44	13.867	13.756	0.03	0.33	0.33	0.1	0.1	15.709	15.588	0.55	0.97	-0.09	
A12/7 to A12/8	825	RRJ2	16.74	0.5	20	1309	1.19	2.45	13.726	13.642	0.03	0.32	0.32	0.1	0.1	15.53	15.466	0.38	0.96	-0.146	
A12/8 to A12/9	825	RRJ2	12.7	0.5	20	1306	1.19	2.44	13.612	13.549	0.03	0.43	0.43	0.08	0.08	15.389	15.338	0.4	0.82	-0.145	
A12/9 to A12/10	825	RRJ2	11.09	0.5	10	1300	1.18	2.43	13.519	13.463	0.03	0.41	0.41	0.08	0.08	15.256	15.204	0.47	0.83	-0.129	
A12/10 to A12/11	825	RRJ2	19.36	0.5	10	1296	1.18	2.43	13.433	13.337	0.03	0.4	0.4	0.09	0.09	15.113	15.013	0.52	1	-0.128	
A12/11 to A12/12	825	RRJ2	55.98	0.5	10	1289	1.17	2.41	13.307	13.027	0.03	0.22	0.22	0.07	0.07	14.963	14.669	0.53	0.99	0.362	
A12/12 to A12/13	825	RRJ2	76.59	0.5	10	1285	1.17	2.47	12.997	12.614	0.03	0.2	0.2	0.06	0.06	14.624	14.247	0.49	0.93	0.254	
A12/13 to A12/14	900	RRJ2	26.4	0.5	10	1513	1.09	2.4	12.584	12.452	0.03	0	0	0	0	14.247	14.136	0.42	0.79	0.174	
A12/14 to A12/15	900	RRJ3	55.57	0.5	15	1232	0.89	1.97	12.422	12.144	0.03	1.1	1.1	0.21	0.21	13.961	13.778	0.33	0.73	-0.025	
A13/1 to A13/2	375	RRJ2	10.84	1	15	43	0.23	0.84	20.634	20.526	0.065	8.68	8.68	0.14	0.07	20.748	20.647	0.93	1.1	1.211	
A13/2 to A13/3	375	RRJ2	65.52	1.64	25	66	0.27	1.74	20.461	19.388	0.059	1.93	2.06	0.04	0.04	20.572	19.601	1.48	1.1	1.384	
A13/3 to A13/4	375	RRJ2	56.12	1.6	15	122	0.51	1.7	19.329	18.434	0.073	1.13	1.11	0.08	0.07	19.534	19.43	0.19	1.1	1.277	
A13/4 to A13/5	375	RRJ2	15.03	1	10	147	0.77	1.54	18.361	18.211	0.05	0.94	0.94	0.09	0.09	19.379	19.302	0.51	1.16	0.493	
A13/5 to A13/6	375	RRJ2	15.52	1.49	10	150	0.65	1.7	18.161	17.93	0.196	1.17	1.23	0.15	0.11	19.22	19.13	0.58	1.1	0.289	
A13/6 to A13/7	375	RRJ2	27.86	1.53	10	171	0.73	1.68	17.735	17.308	0.05	1.21	0.86	0.12	0.08	19.075	18.871	0.73	1.1	0.135	
A13/7 to A13/8	450	RRJ2	14.04	1	15	234	0.76	1.48	17.258	17.117	0.213	6.58	0.97	0.12	0.07	18.816	18.754	0.44	1.19	-0.078	
A13/8 to A13/9	600	RRJ2	10.79	1	15	806	1.21	2.85	16.904	16.797	0.035	1.38	1.44	0.48	0.55	18.287	18.148	1.29	1.19	-0.179	
A13/9 to A13/10	600	RRJ2	43.53	2.26	20	909	0.91	3.44	16.762	15.78	1.256	0.74	0.64	0.2	0.32						

Plotted: 15 September, 2022 2:54:41 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19420.dwg

NOTE:
 — 1% AEP HGL PROVIDED FOR INFORMATION ONLY.
 - - - 10% AEP HGL

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

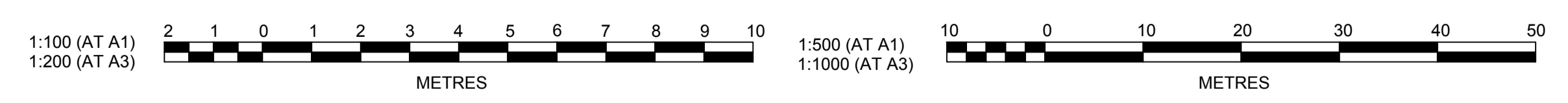
Signature.....*PRJ*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F



DATUM (m)	13.00							
PEAK FLOW (L/s)	39	136	212	281	286	469	474	
PIPE SIZE (mm)	375 ✓	375 ✓	375 ✓	450 ✓	450 ✓	525 ✓	525 ✓	
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	
PIPE GRADE (%)	1.6 1.7	1.6 1.7	1.5 1.4	1.5 1.5	1.5 1.9	1.5 1.4	1.0 1.8	
PIPE COVER MINIMUM	1.10	1.10	1.10	1.10	1.10	1.10	1.27	
FULL PIPE VELOCITY (m/s)	1.10	1.75	2.03	2.11	2.06	2.17	2.19	
HGL GRADE (%)	1.24	0.43	1	0.65	0.78	1.01	1.03	
NOTE: 10% AEP VALUES SHOWN								
WAE								
HYDRAULIC GRADE LINE	20.029	19.642	19.292	18.683	18.423	18.201	17.678	
INVERT LEVEL	19.981 19.95	19.47 19.46 19.46 19.34	18.85 18.884 18.792 18.76	18.32 18.305 18.168 18.20	17.87 17.826 17.771 17.81	17.45 17.476 17.354 17.33	17.15 17.127 17.077 17.12	16.92 16.954 16.904 16.90
DESIGN SURFACE LEVEL	21.513 21.46	20.953 20.95	20.367 20.37	19.787 19.77	19.39 19.38	19.046 19.06	18.777 18.76	18.67 18.63
ROAD CHAINAGE	449.07	417.79	385.00	352.61	330.42	311.16	295.72	280.23
PIPE CHAINAGE	0	31.281	64.069	96.465	118.65	137.91	153.35	165.561

LINE A10

LDC Plans and specifications referenced in certificate no. **17312** issued by: **Christopher Louis Wahbe**
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au



A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS 08/06/22
	AMENDMENT	DES	DRN	CKD	APR

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO Box 4366 PENRITH WESTFIELD NSW 2750
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CLIENT:
WINTREN PROPERTY GROUP

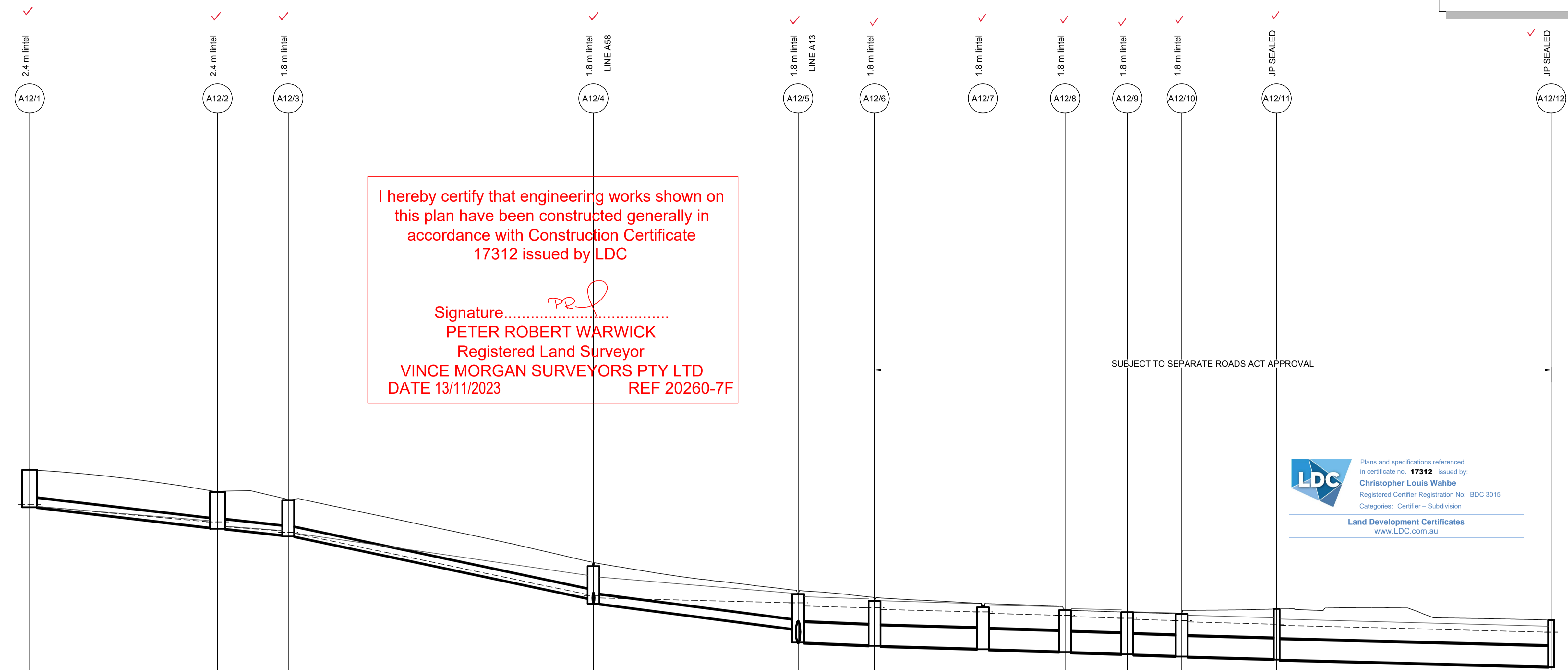
STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
 THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK PRECINCT 7, STAGE 7F
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 1

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC19420

PROJECT No: **9985-12**
 SHEET No: **CC19420**

NOTE:
 — 1% AEP HGL PROVIDED FOR INFORMATION ONLY.
 - - - 10% AEP HGL



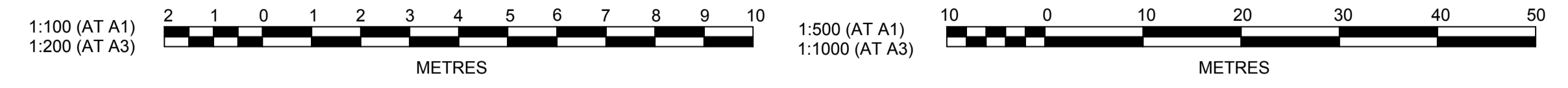
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F

LDC
 Plans and specifications referenced in certificate no. **17312** issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au

DATUM (m)	11.00																					
PEAK FLOW (L/s)	48	105	125	206	1173	1171	1180	1184	1185	1185	1172											
PIPE SIZE (mm)	375 ✓	375 ✓	375 ✓	375 ✓	825 ✓	825 ✓	825 ✓	825 ✓	825 ✓	825 ✓	825 ✓											
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2											
PIPE GRADE (%)	2.2 2.2	1.8 1.7	4.1 4.3	2.4 2.4	0.7 0.7	0.5 0.5	0.5 0.5	0.5 0.5	0.5 0.5	0.5 0.5	0.5 0.5											
PIPE COVER MINIMUM	1.10	1.10	1.10	1.12	1.09	0.97	0.96	0.82	0.83	1.00	0.99											
FULL PIPE VELOCITY (m/s)	1.13	1.56	2.91	2.54	2.19	2.19	2.21	2.21	2.22	2.24	2.29											
HGL GRADE (%)	1.66	1.21	4.02	0.49	0.48	0.47	0.48	0.49	0.49	0.5	0.5											
WAE																						
HYDRAULIC GRADE LINE	19.556	18.92	18.728	18.554	18.482	15.566	15.495	15.421	15.355	15.282	15.212	15.141	15.072	15.002	14.932	14.867	14.807	14.751	14.704	14.656	14.626	14.593
INVERT LEVEL	19.518 19.47	18.692 18.62 18.642 18.59	18.385 18.36 18.335 18.29	15.811 15.84 15.882 15.51	14.006 14.54 14.56 14.00	13.897 13.90 13.867 13.88	13.756 13.77 13.726 13.74	13.642 13.66 13.612 13.62	13.549 13.56 13.519 13.53	13.463 13.48 13.433 13.44	13.337 13.39 13.307 13.33	13.027 13.08 12.997 13.04										
DESIGN SURFACE LEVEL	21.046 20.88	20.147 20.00	19.81 19.5	17.12 16.72	15.978 15.84	15.686 15.79	15.443 15.50	15.322 15.44	15.24 15.32	15.169 15.25	15.075 15.25	14.924 15.15										
ROAD CHAINAGE	170.81	321.51	424.32	621.17	823.35	1025.97	1228.80	1431.82	1635.03	1838.44	2042.05	2245.86										
PIPE CHAINAGE	0	38.301	52.713	114.949	156.682	172.289	194.359	211.101	223.801	234.893	254.249	310.226										

LINE A12



Plotted: 16 May, 2023 1:53:38 PM File Name: J:\9985DICC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19421.dwg

D	LONG SECTION UPDATED	DG	DG	MS	MS	16/05/23
C	DRAINAGE LONGITUDINAL SECTION UPDATED	DG	DG	KE	KE	29/11/22
B	DRAINAGE LONGITUDINAL SECTION UPDATED	DG	NJ	KE	KE	28/09/22
A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22
	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:

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 7F DRAINAGE LONGITUDINAL SECTIONS SHEET 2

PROJECT No: **9985-12**
 SHEET No: **CC19421**

AMOUNT: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC19421**

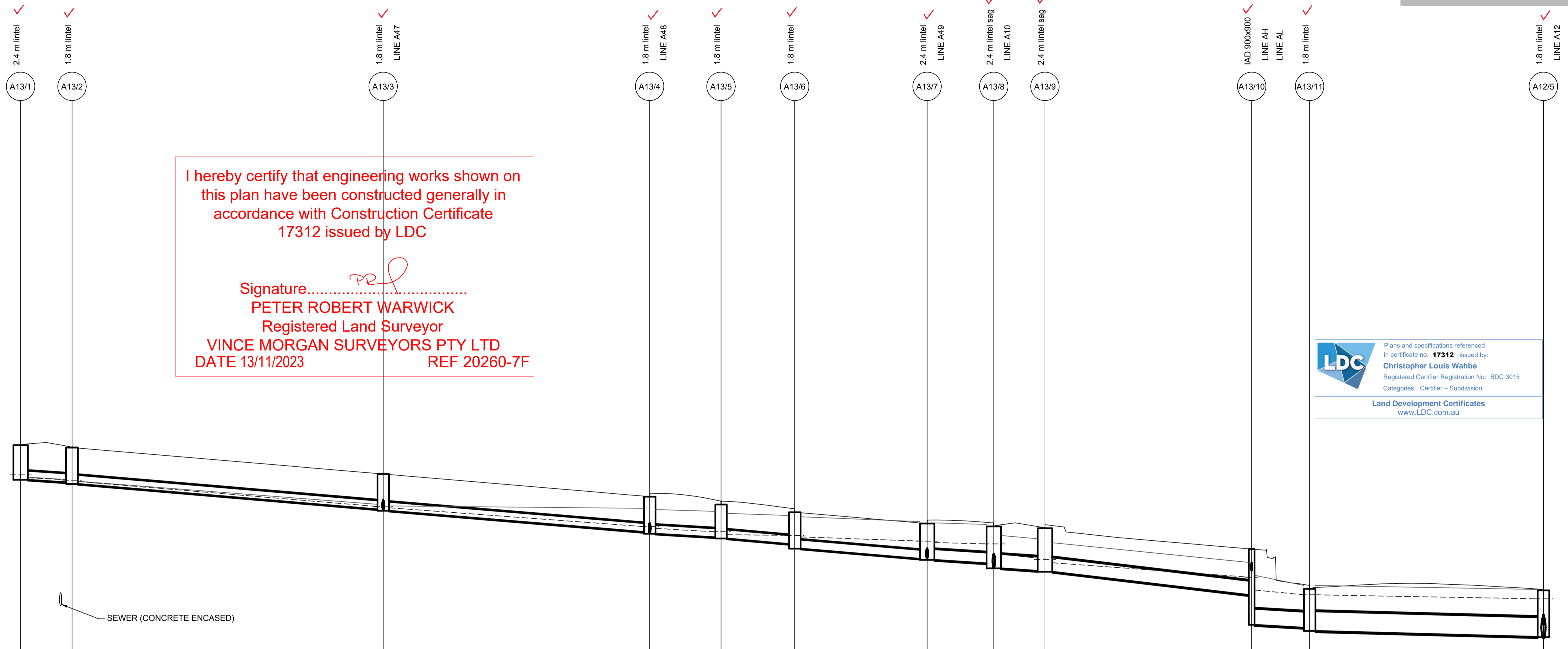
PROJECT No: **9985-12**
 SHEET No: **CC19421**

PLAN No: **9985-12-CC19421**

NOTE:
 - - - 1% AEP HGL PROVIDED FOR INFORMATION ONLY.
 - - - 10% AEP HGL

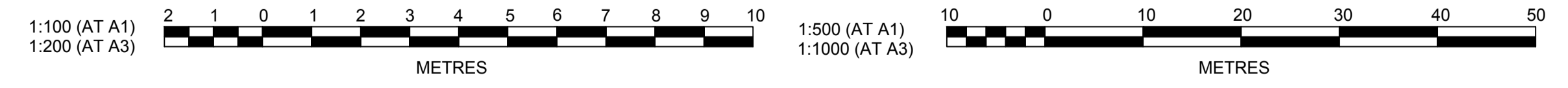
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F



DATUM (m)	12.00											
PEAK FLOW (L/s)	34	54	95	130	134	151	201	718	894	1032	1015	
PIPE SIZE (mm)	375 ✓	375 ✓	375 ✓	375 ✓	375 ✓	375 ✓	450 ✓	600 ✓	600 ✓	675 ✓	825 ✓	
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	
PIPE GRADE (%)	1.0 1.8	1.6 1.5	1.6 1.8	1.0 1.0	1.5 1.3	1.5 1.5	1.0 1.1	1.0 1.1	2.3 2.3	1.0 1.1	0.5 0.8	
PIPE COVER MINIMUM	1.10	1.10	1.10	1.16	1.10	1.10	1.19	1.10	1.10	1.10	0.95	
FULL PIPE VELOCITY (m/s)	0.79	1.66	1.74	1.56	1.70	1.68	1.44	2.59	3.44	2.88	1.90	
HGL GRADE (%)	0.81	1.61	1.41	0.96	0.19	0.63	0.42	1.46	1.39	1.66	0.34	
WAE												
HYDRAULIC GRADE LINE	20.72											
INVERT LEVEL	20.634 20.82	20.43 20.526 20.481 20.39	19.37 19.388 19.329 19.34	18.47 18.454 18.361 18.40	18.25 18.21 18.161 18.21	18.03 17.93 17.93 18.229	17.37 17.308 17.288 17.26	17.12 17.117 16.904 16.90	16.79 16.797 16.782 16.10	15.71 15.78 14.524 14.48	14.35 14.402 14.265 14.25	14.07 14.019 14.006 14.00
DESIGN SURFACE LEVEL	22.094 22.08	21.991 21.97	20.878 20.88	19.924 19.91	19.69 19.57	19.285 19.27	18.793 18.78	18.67 18.63	18.692 18.58	17.715 17.71	16.041 15.88	15.84 15.978
ROAD CHAINAGE	199.77	73.37	138.88	195.00	214.40	233.72	261.59	280.23	280.99		23.72	23.35
PIPE CHAINAGE	0	10.836	76.352	132.468	147.494	163.01	190.874	204.914	215.695	259.226	271.43	320.86

LINE A13



Plotted: 18 May, 2023 1:56:19 PM File Name: J:\9985DICC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19423.dwg

D	LONG SECTION UPDATED	DG	DG	MS	MS	16/05/23
C	LINE 13 UPDATED	KE	JM	MS	MS	17/02/23
B	COUNCIL COMMENTS	DG	NJ	KE	KE	28/09/22
A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22
	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:

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC19423

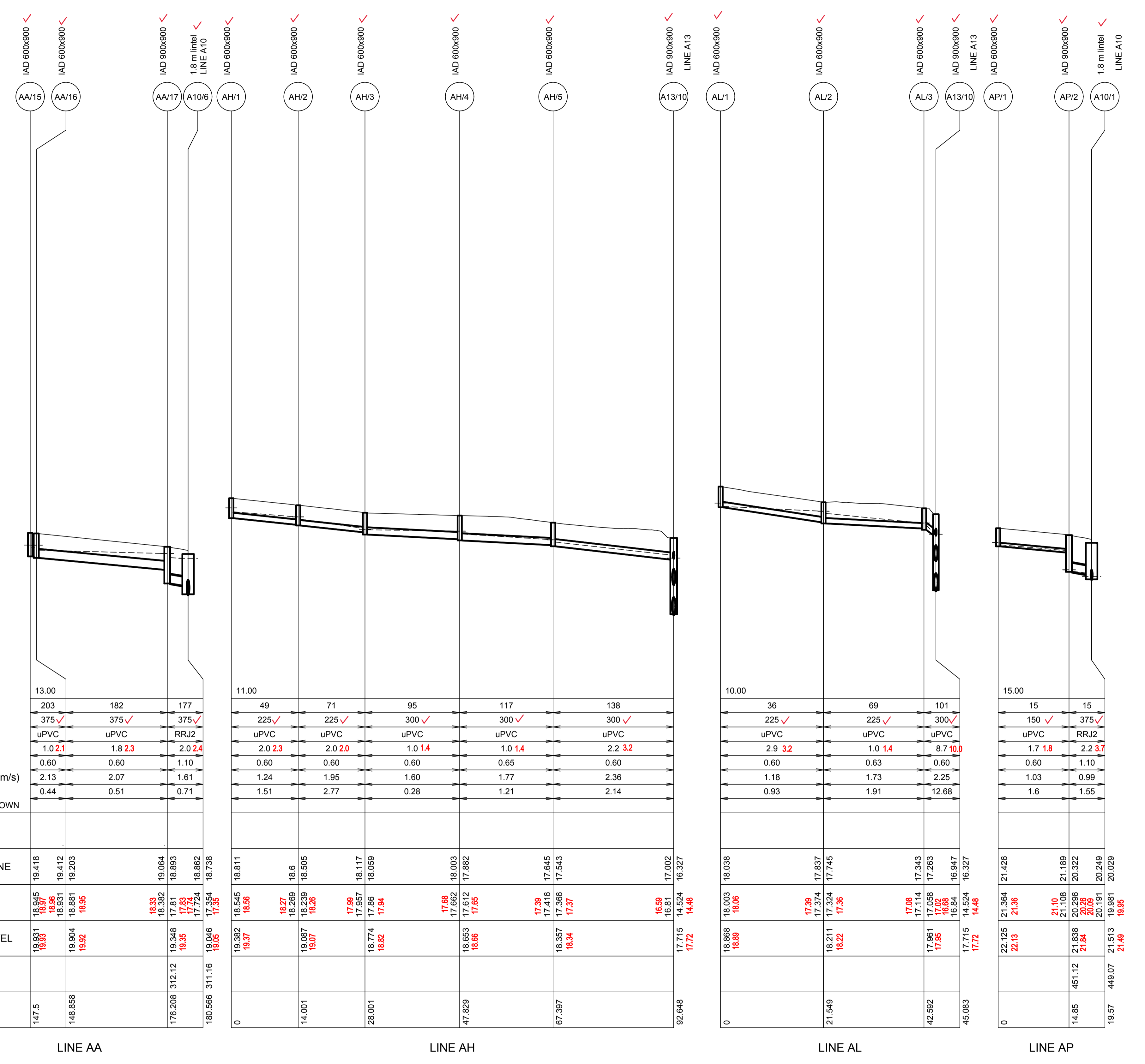
PROJECT No: **9985-12**
 SHEET No: **CC19423**

D

NOTE:
 --- 5% AEP HGL

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....*PRJ*.....
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F



DATUM (m) 13.00
 PEAK FLOW (L/s) 203
 PIPE SIZE (mm) 375 ✓
 PIPE CLASS uPVC
 PIPE GRADE (%) 1.0 2.1
 PIPE COVER MINIMUM 0.60
 FULL PIPE VELOCITY (m/s) 2.13
 HGL GRADE (%) 0.44
 NOTE: 5% AEP VALUES SHOWN

WAE	18.945	18.931	18.945	18.931
HYDRAULIC GRADE LINE	19.418	19.412	19.203	18.738
INVERT LEVEL	18.33	18.33	18.33	18.33
DESIGN SURFACE LEVEL	19.931	19.931	19.931	19.931
ROAD CHAINAGE	147.5	148.858	176.208	180.566
PIPE CHAINAGE	147.5	148.858	176.208	180.566

DATUM (m) 11.00
 PEAK FLOW (L/s) 49
 PIPE SIZE (mm) 225 ✓
 PIPE CLASS uPVC
 PIPE GRADE (%) 2.0 2.3
 PIPE COVER MINIMUM 0.60
 FULL PIPE VELOCITY (m/s) 1.24
 HGL GRADE (%) 1.51

WAE	18.545	18.27	17.99	17.74	17.416	17.114	16.81
HYDRAULIC GRADE LINE	18.811	18.6	18.117	18.059	17.645	17.543	17.002
INVERT LEVEL	18.56	18.27	17.99	17.74	17.416	17.114	16.81
DESIGN SURFACE LEVEL	19.382	19.37	19.087	18.82	18.357	18.34	17.715
ROAD CHAINAGE	0	14.001	28.001	47.829	67.397	92.648	117.715
PIPE CHAINAGE	0	14.001	28.001	47.829	67.397	92.648	117.715

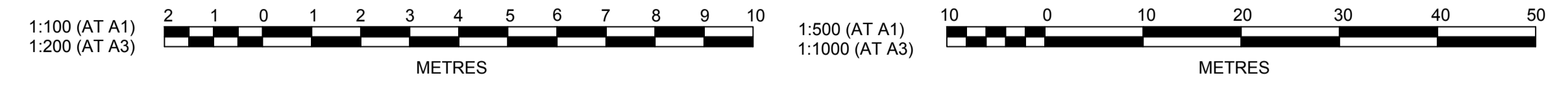
DATUM (m) 10.00
 PEAK FLOW (L/s) 36
 PIPE SIZE (mm) 225 ✓
 PIPE CLASS uPVC
 PIPE GRADE (%) 2.9 3.2
 PIPE COVER MINIMUM 0.60
 FULL PIPE VELOCITY (m/s) 1.18
 HGL GRADE (%) 0.93

WAE	18.003	17.39	17.08	17.114	17.343
HYDRAULIC GRADE LINE	18.038	17.837	17.745	17.263	16.947
INVERT LEVEL	18.06	17.39	17.08	17.114	17.343
DESIGN SURFACE LEVEL	18.868	18.21	17.95	17.715	17.72
ROAD CHAINAGE	0	21.549	42.592	45.083	65.327
PIPE CHAINAGE	0	21.549	42.592	45.083	65.327

DATUM (m) 15.00
 PEAK FLOW (L/s) 15
 PIPE SIZE (mm) 150 ✓
 PIPE CLASS uPVC
 PIPE GRADE (%) 1.7 1.8
 PIPE COVER MINIMUM 0.60
 FULL PIPE VELOCITY (m/s) 1.03
 HGL GRADE (%) 1.6

WAE	21.364	21.108	20.296	20.191
HYDRAULIC GRADE LINE	21.426	20.322	20.249	20.029
INVERT LEVEL	21.36	21.108	20.296	20.191
DESIGN SURFACE LEVEL	22.125	21.838	21.84	21.513
ROAD CHAINAGE	0	14.85	19.57	21.513
PIPE CHAINAGE	0	14.85	19.57	21.513

LDC Plans and specifications referenced in certificate no. 17312 issued by: Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au



Plotted: 17 February 2023 12:21:19 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\F9985-12-CC19425.dwg

REV	DESCRIPTION	DES	DRN	CKD	APR	DATE
B	LINE AH & AL UPDATED	KE	JM	MS	MS	17/02/23
A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22
	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: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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NEWPARK PRECINCT 7, STAGE 7F DRAINAGE LONGITUDINAL SECTIONS SHEET 6

PROJECT No: **9985-12**
 SHEET No: **CC19425**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC19425**

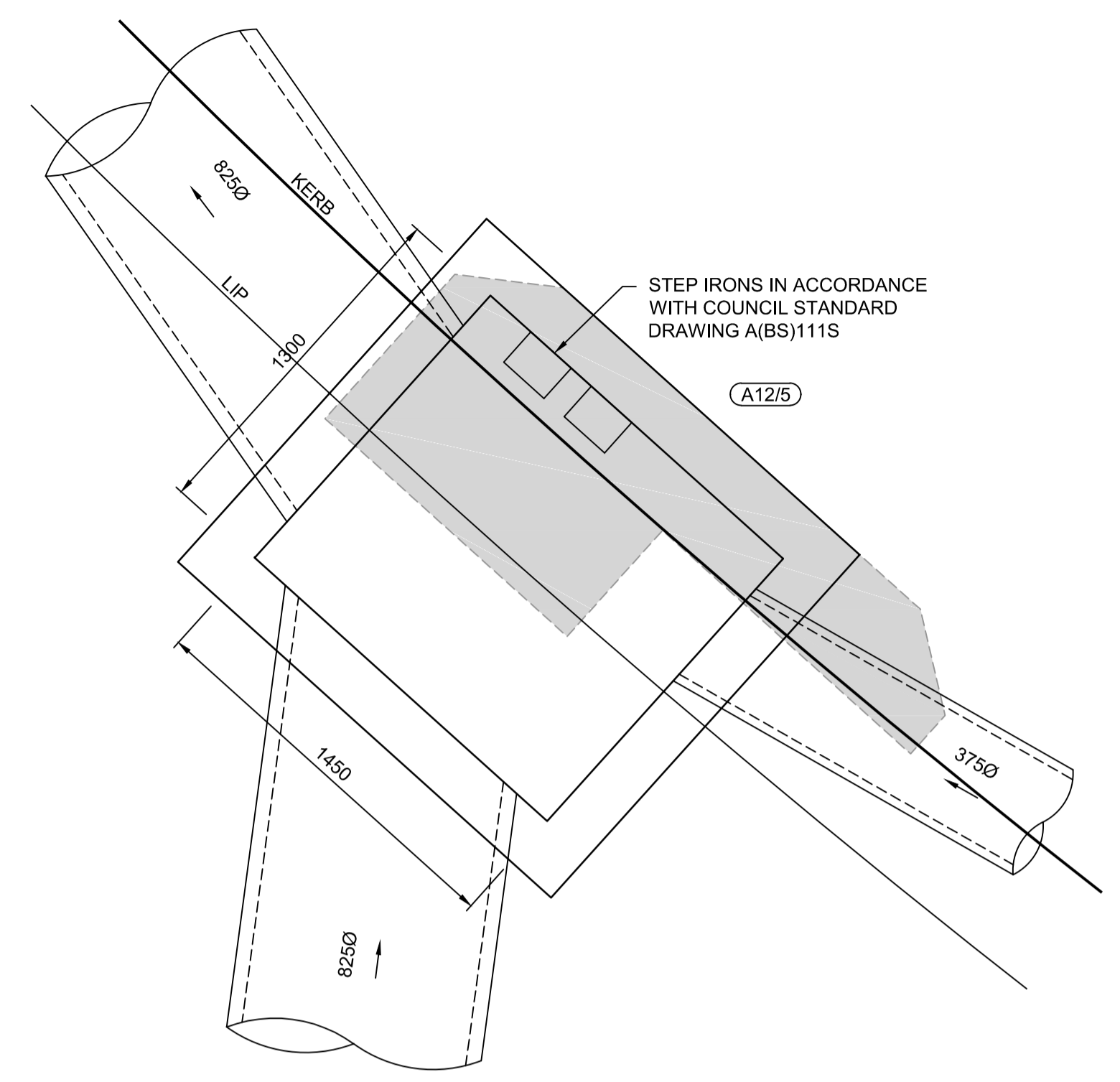
PROJECT No: **9985-12**
 SHEET No: **CC19425**
 PLAN No: **9985-12-CC19425**



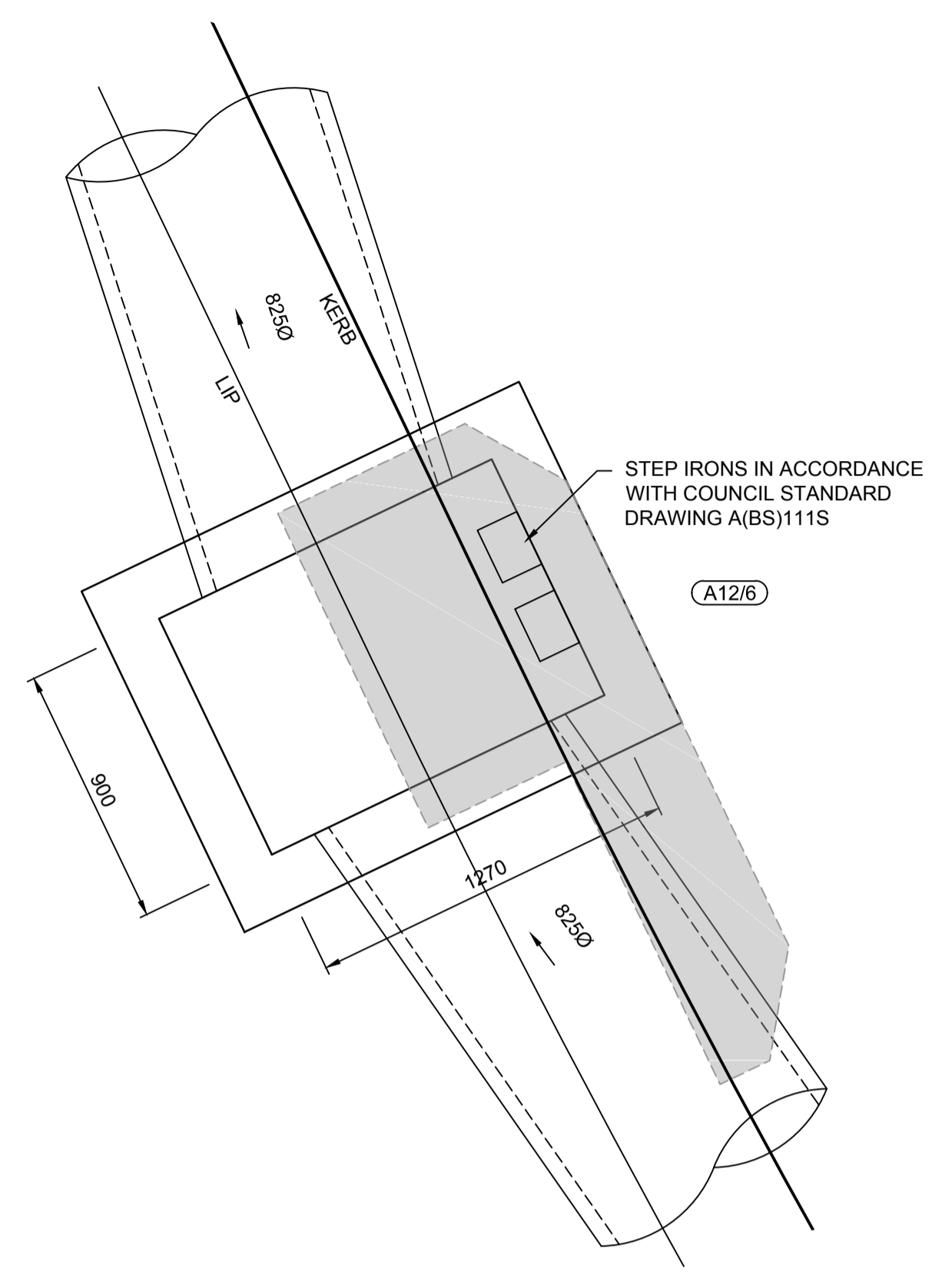
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....*PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F

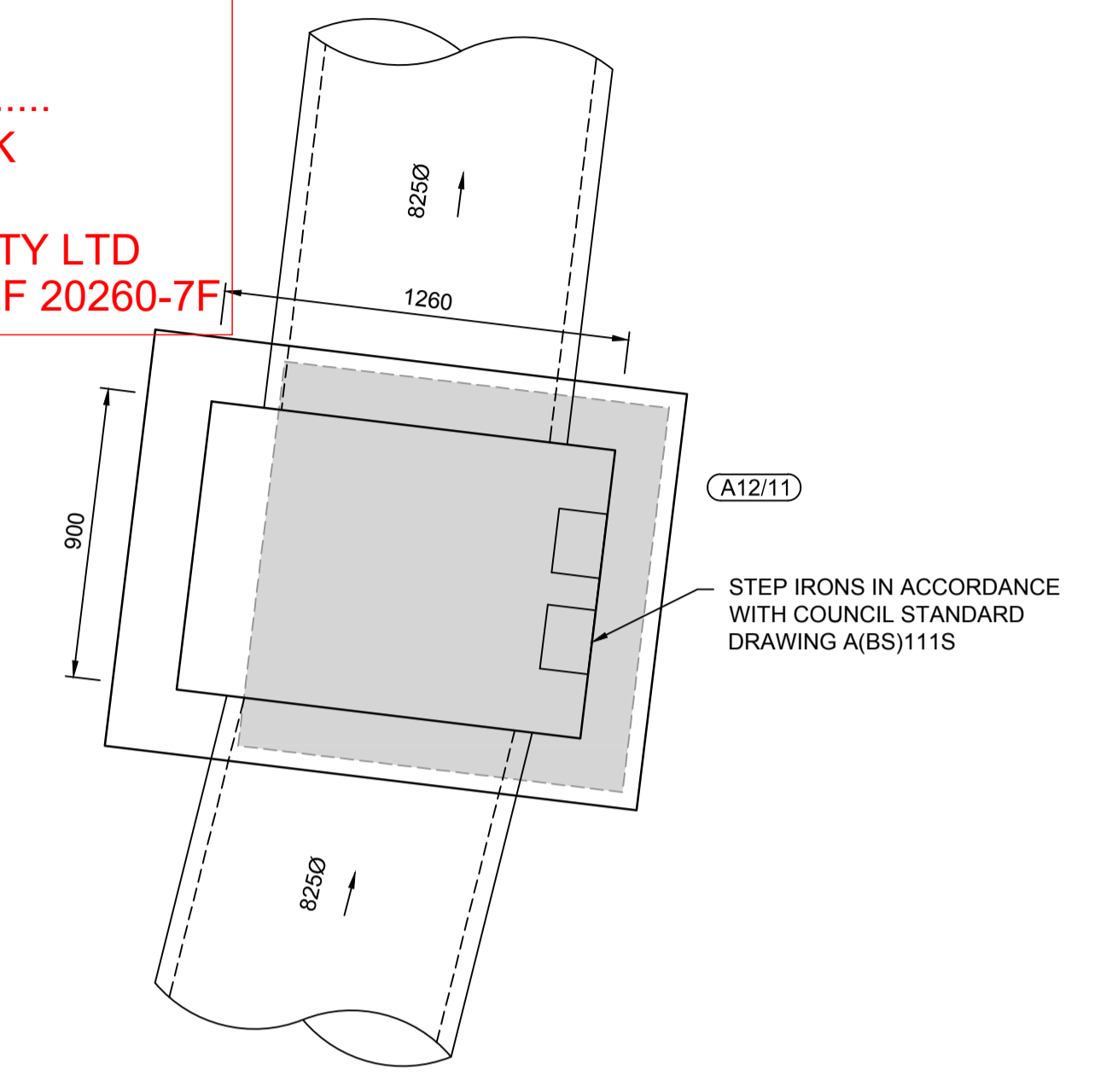
LDC Plans and specifications referenced in certificate no. **17312** issued by: **Christopher Louis Wahbe**
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au



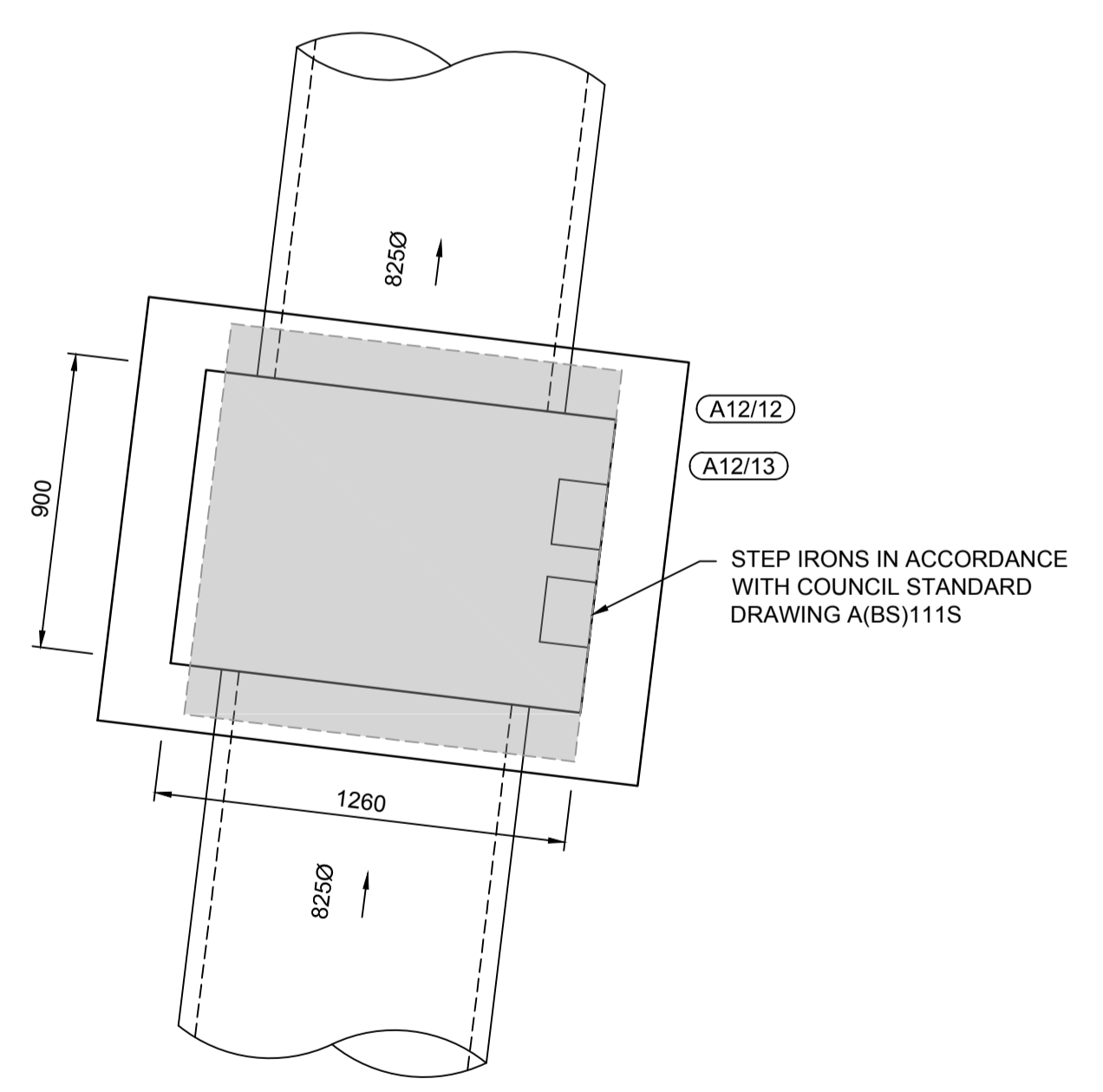
SPECIAL PIT A12/5
SCALE 1:20



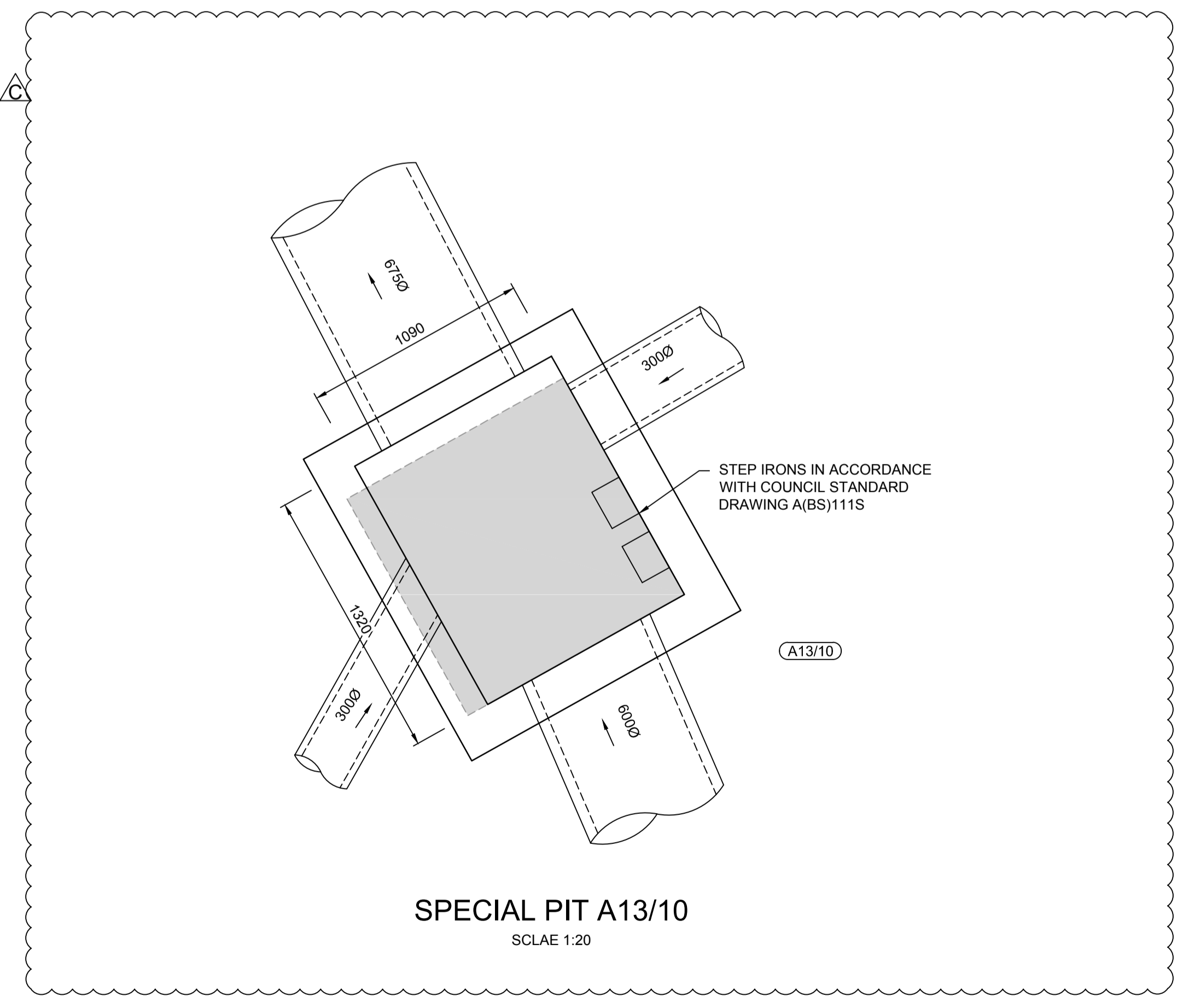
SPECIAL PIT A12/6
SCALE 1:20



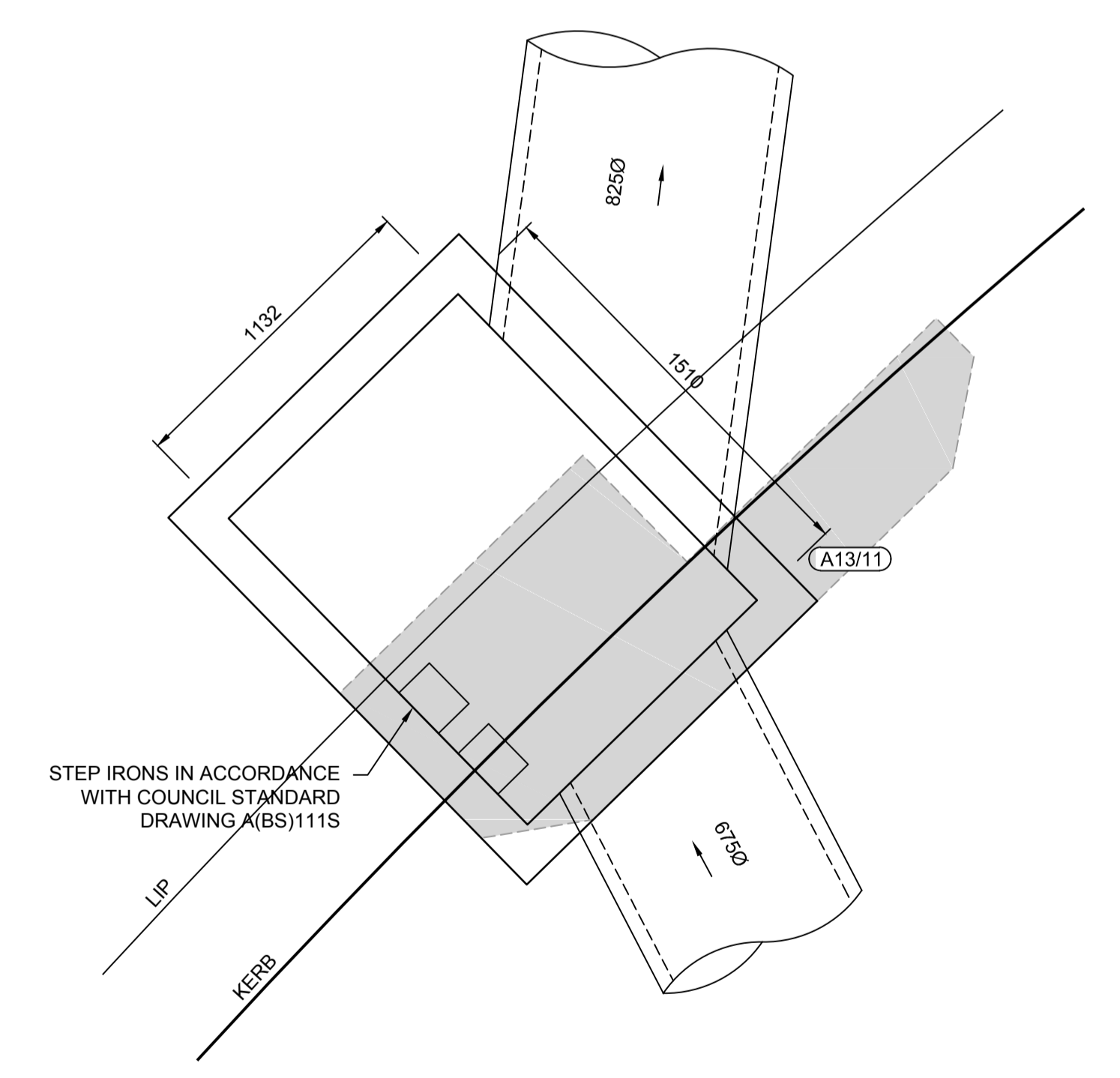
SPECIAL PIT A12/11
SCALE 1:20



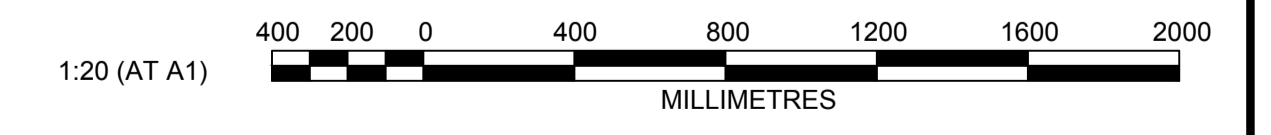
SPECIAL PIT A12/12 & A12/13
SCALE 1:20



SPECIAL PIT A13/10
SCALE 1:20



SPECIAL PIT A13/11
SCALE 1:20



Plotted: 17 February 2023 12:22:01 PM File Name: J:\9985\DC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19450.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
C	KE	JM	MS	MS	17/02/23
B	DG	DG	KE	KE	29/11/22
A	DG	NDW	KE	MS	08/06/22

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**

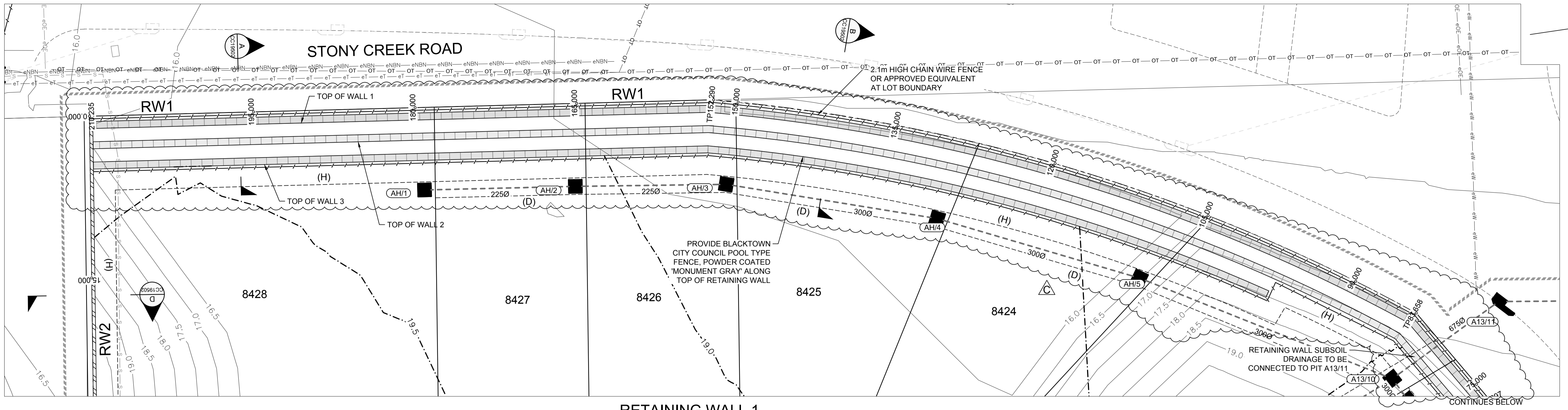
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK
PRECINCT 7, STAGE 7F
 SPECIAL PIT DETAILS

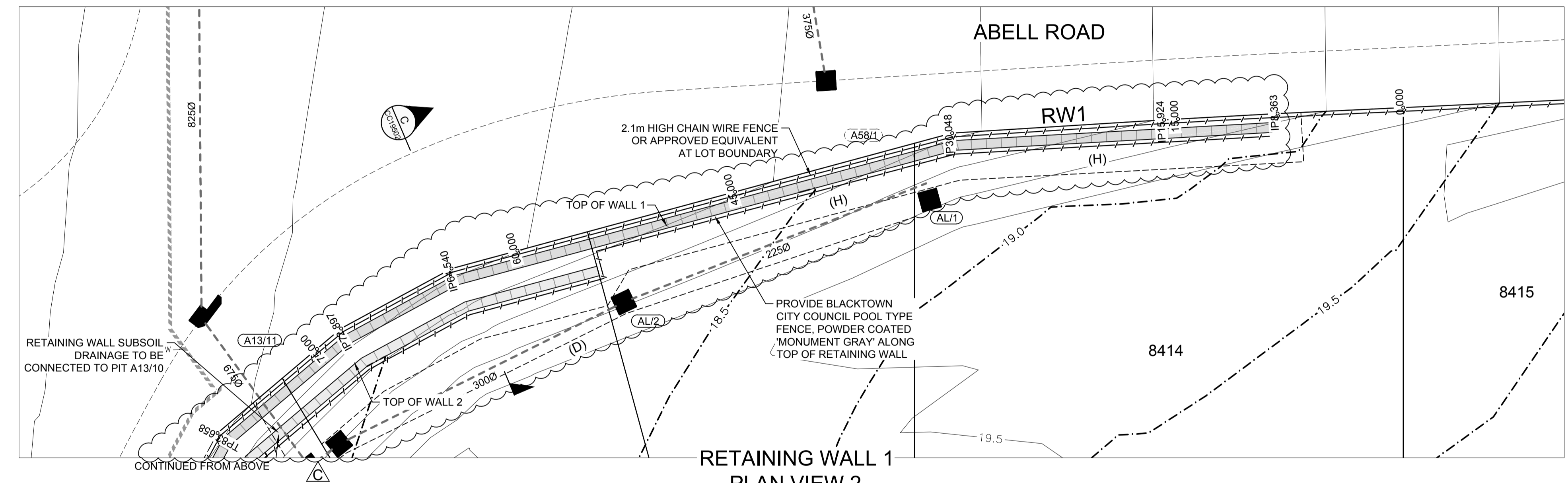
PROJECT No: **9985-12**
 SHEET No: **CC19450**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC19450**

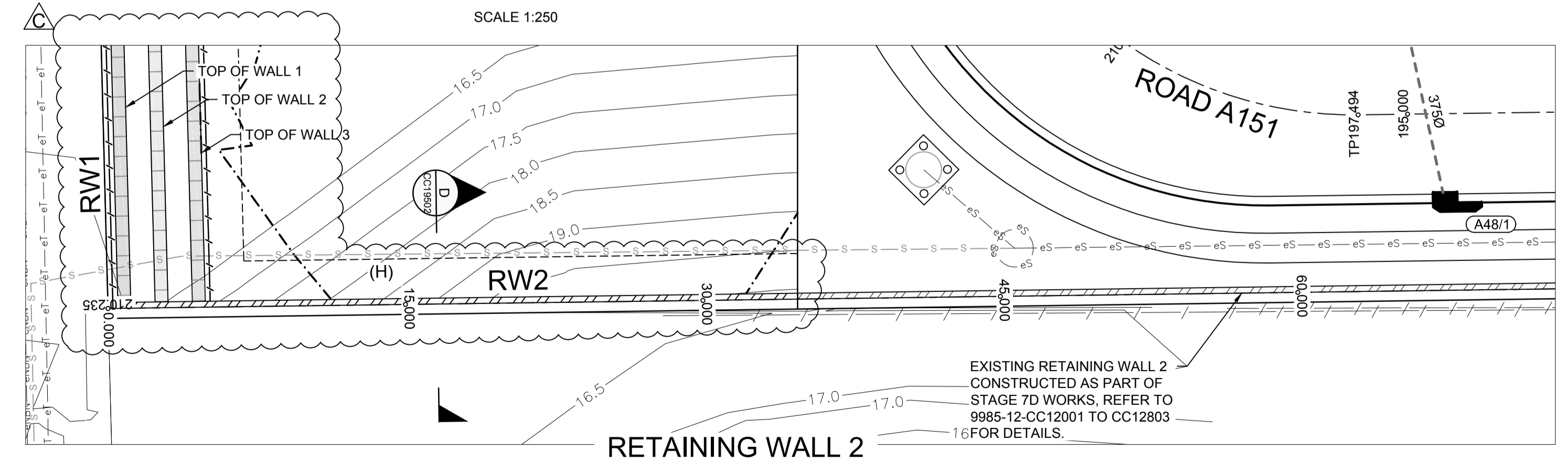
B



RETAINING WALL 1
PLAN VIEW 1
SCALE 1:250



RETAINING WALL 1
PLAN VIEW 2
SCALE 1:250



RETAINING WALL 2
PLAN
SCALE 1:250

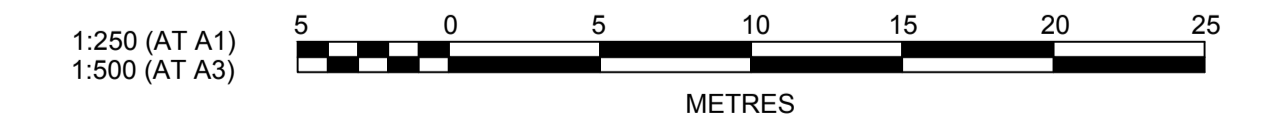
EASEMENT
(H) EASEMENT FOR SUPPORT
(D) EASEMENT TO DRAIN WATER 1.5m WIDE

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 13/11/2023 REF 20260-7F

LDC Plans and specifications referenced in certificate no. 17312 issued by: Christopher Louis Wahbe Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision Land Development Certificates www.LDC.com.au

- RETAINING WALL SUBJECT TO STRUCTURAL DESIGN AND CERTIFICATION BY INHOUSE CONSULTING ENGINEERS
- PROVIDE SUBSOIL BEHIND ALL RETAINING WALLS.



Plotted: 17 February, 2023 12:35:24 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19500.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
C	KE	JM	MS	MS	17/02/23
B	DG	NJ	KE	KE	28/09/22
A	DG	NDW	KE	MS	08/06/22

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**

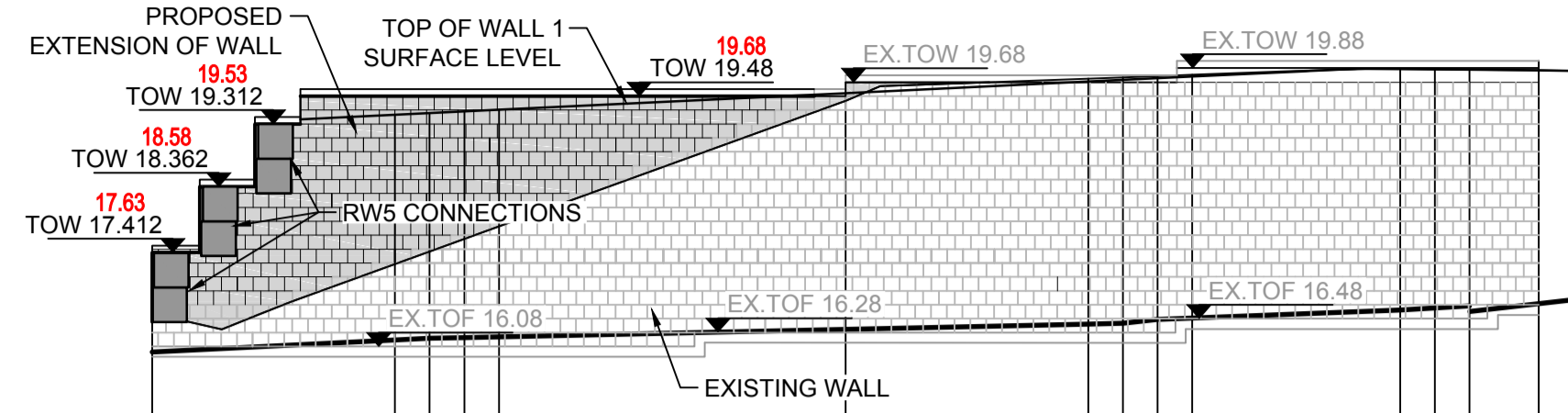
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK PRECINCT 7, STAGE 7F RETAINING WALL PLAN

PROJECT No: **9985-12**
SHEET No: **CC19500**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC19500**

PROJECT No: **9985-12**
SHEET No: **CC19500**



CHAINAGE	0.00	7.00	8.00	9.00	10.00	20.00	27.00	28.00	29.00	30.00	36.00	37.00	38.00	40.00
TOP OF WALL SURFACE LEVELS		19.40	19.44	19.42	19.46	19.48	19.88	19.90	19.92	20.00	20.04	20.05	20.05	20.02
EXISTING (P7D) SURFACE LEVELS	16.49	17.25	17.43	17.61	17.79	19.60	19.88	19.94	19.96	19.97	20.06	20.05	20.05	20.04
BOTTOM OF WALL SURFACE LEVELS	15.98	16.15	16.18	16.19	16.20	16.31	16.38	16.39	16.45	16.47	16.58	16.61	16.65	16.70

LONGITUDINAL SECTION P7F RW2

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:100

WALL AND FOOTING DESIGN
SUBJECT TO STRUCTURAL DESIGN
AND CERTIFICATION BY INHOUSE
CONSULTING ENGINEERS

RW2			
CHAINAGE	EASTING	NORTHING	BEARING
0	294722.59	6268600.96	97°38'19.92"
210.66	294931.39	6268572.96	97°38'19.92"

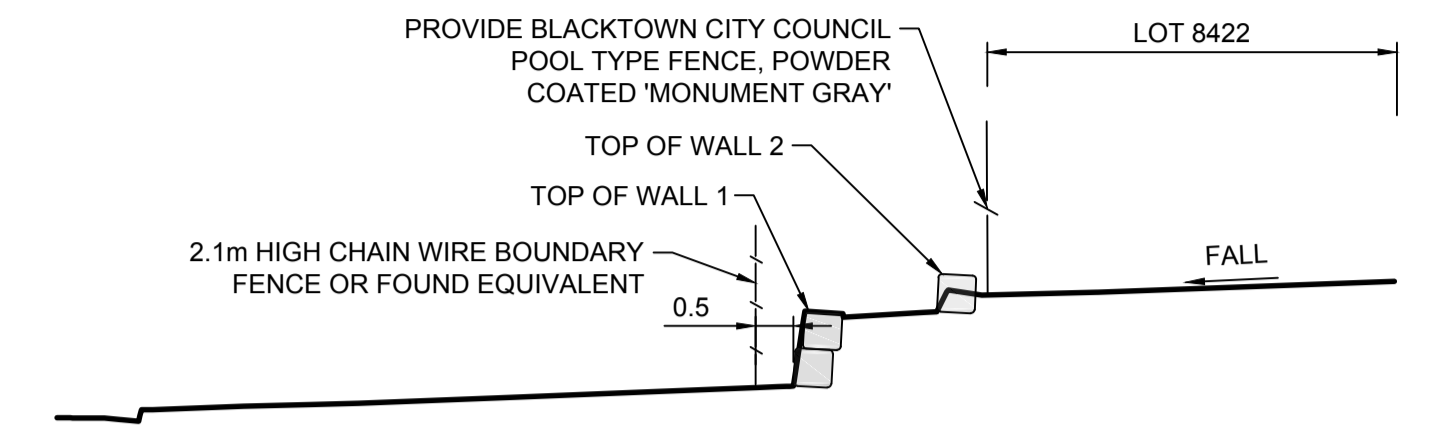
LEGEND

AUSTRAL GB MASONRY BLOCK WALL, SPLIT FACE 'SYDNEY BLEND' COLOUR OR APPROVED EQUIVALENT

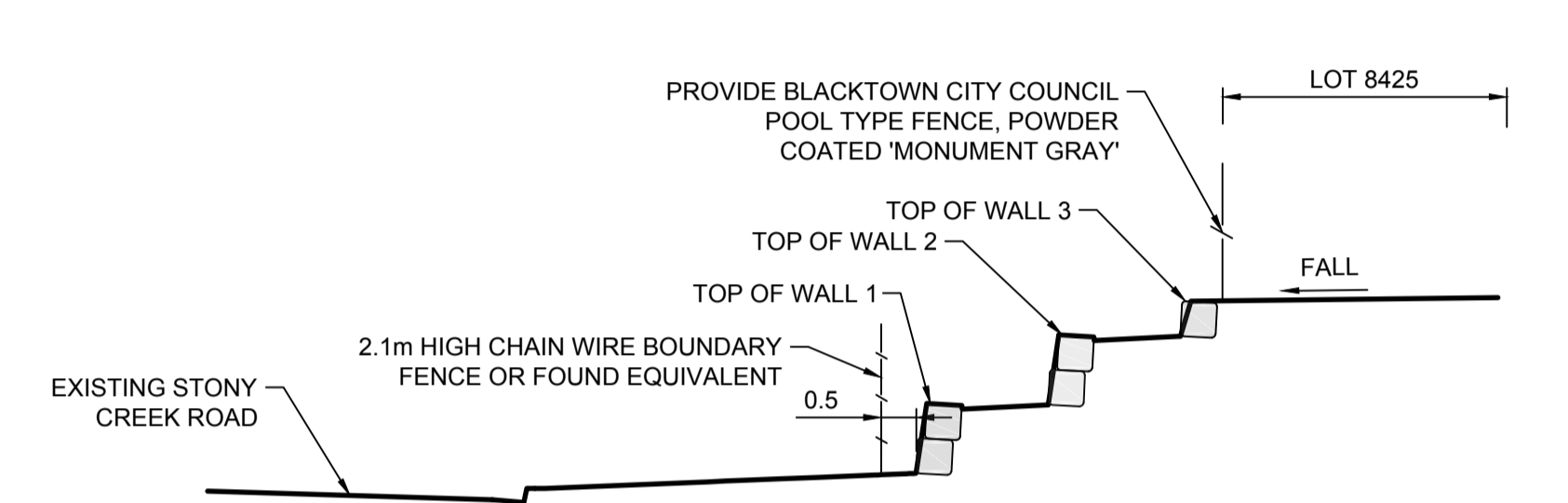
TOP OF WALL TO INSIDE OF CAPPING

TOP OF FOOTING

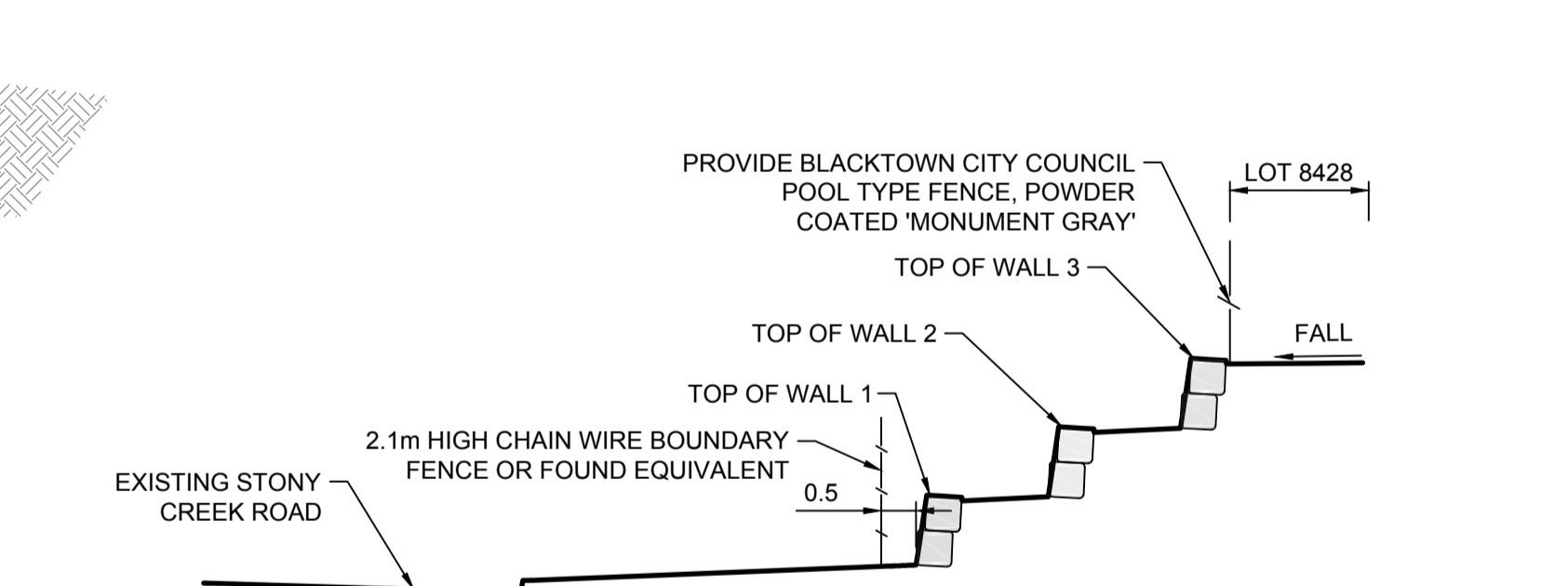
WALL AND FOOTING DESIGN
SUBJECT TO STRUCTURAL DESIGN
AND CERTIFICATION BY INHOUSE
CONSULTING ENGINEERS



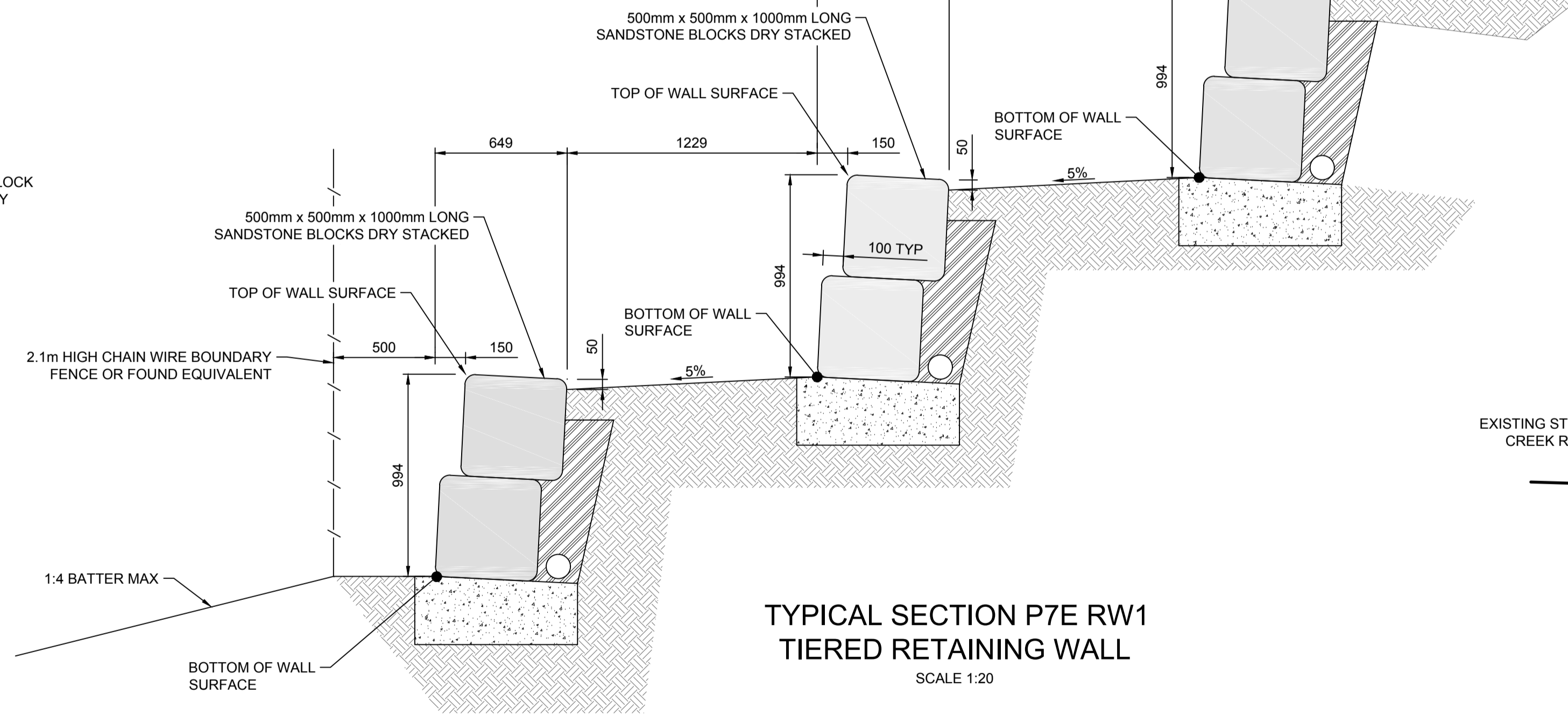
SECTION C
SCALE H 1:100
V 1:100
CC19500



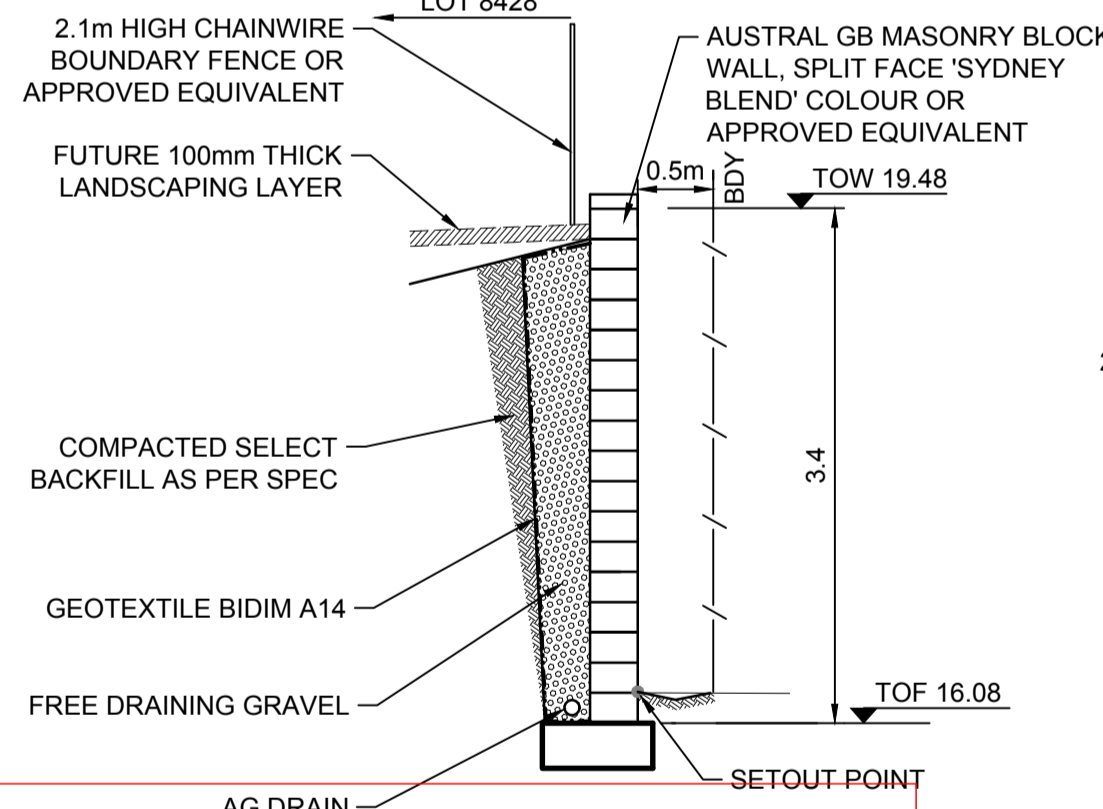
SECTION B
SCALE H 1:100
V 1:100
CC19500



SECTION A
SCALE H 1:100
V 1:100
CC19500



TYPICAL SECTION P7E RW1
TIERED RETAINING WALL
SCALE 1:20



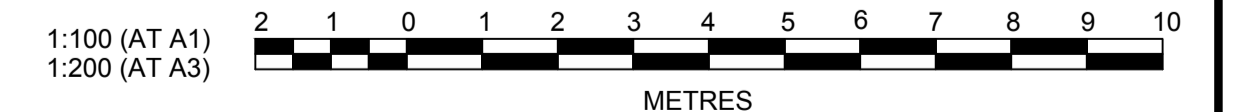
SECTION D
SCALE H 1:50
V 1:50
CC19500

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature: *[Signature]*
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 13/11/2023 REF 20260-7F

LDC Plans and specifications referenced in certificate no. 17312 issued by Christopher Louis Wahbe Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision

Land Development Certificates
www.LDC.com.au



Plotted: 17 February 2023 12:25:01 PM File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19502.dwg

REV	DESCRIPTION	BY	CHKD	DATE		
B	RETAINING WALL SECTIONS UPDATED	KE	JM	MS	17/02/23	
A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22
	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: **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 7F RETAINING WALL PLAN SECTIONS SHEET 2

PROJECT No: 9985-12
SHEET No: CC19502

AMAZON: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC19502

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 GRASSED 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 ONSITE. 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:-
 - 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 CENTRELIN.
- 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 RESPONSIBILITY 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 17312 issued by LDC

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F

Plotfile: 26 September, 2022 4:06:43 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19700.dwg

REV	DESCRIPTION	DATE
B	NOTES AMENDED	28/09/22
A	ISSUE FOR SWC APPROVAL	08/06/22
	AMENDMENT	

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 7F
 SOIL & WATER MANAGEMENT NOTES

PROJECT No: **9985-12**
 SHEET No: **CC19700**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC19700**

LDC
 Plans and specifications referenced in certificate no. **17312** issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
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REFER TO DRAWING CC19012 FOR CONTINUATION

**NEWPARK PRECINCT 7
STAGE 7E**
REFER TO 9985-12-CC15001-15803
BY J WYNDHAM PRINCE

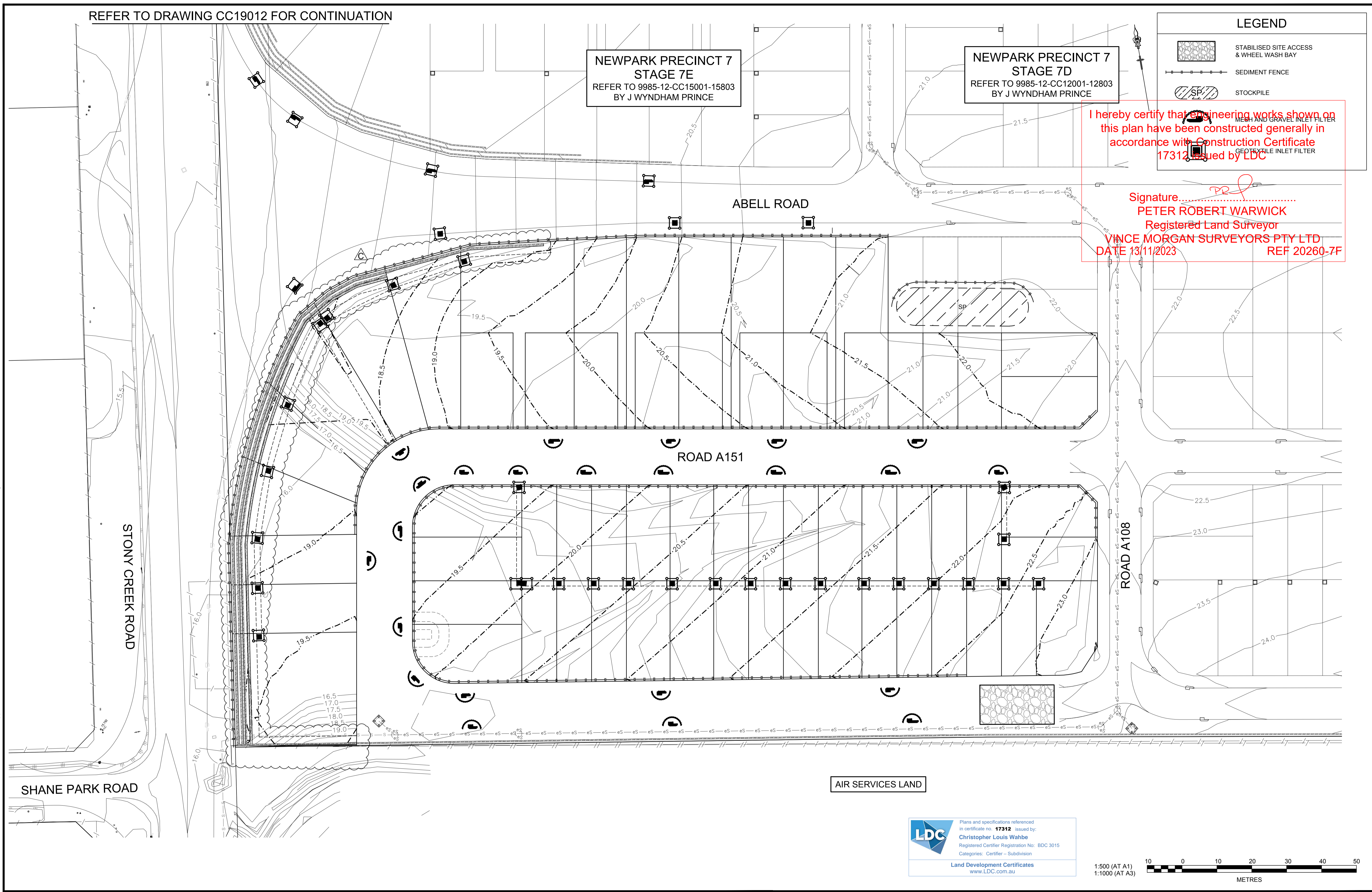
**NEWPARK PRECINCT 7
STAGE 7D**
REFER TO 9985-12-CC12001-12803
BY J WYNDHAM PRINCE

LEGEND

- STABILISED SITE ACCESS & WHEEL WASH BAY
- SEDIMENT FENCE
- STOCKPILE
- MESH AND GRAVEL INLET FILTER
- GEOTEXTILE INLET FILTER

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F



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

 METRES

AMENDMENT	DES	DRN	CKD	APR	DATE	
C	RETAINING WALL UPDATED	KE	JM	MS	MS	1702/23
B	DRAINAGE AMENDED	DG	DG	KE	KE	29/11/22
A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22

J. WYNDHAM PRINCE
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CLIENT:

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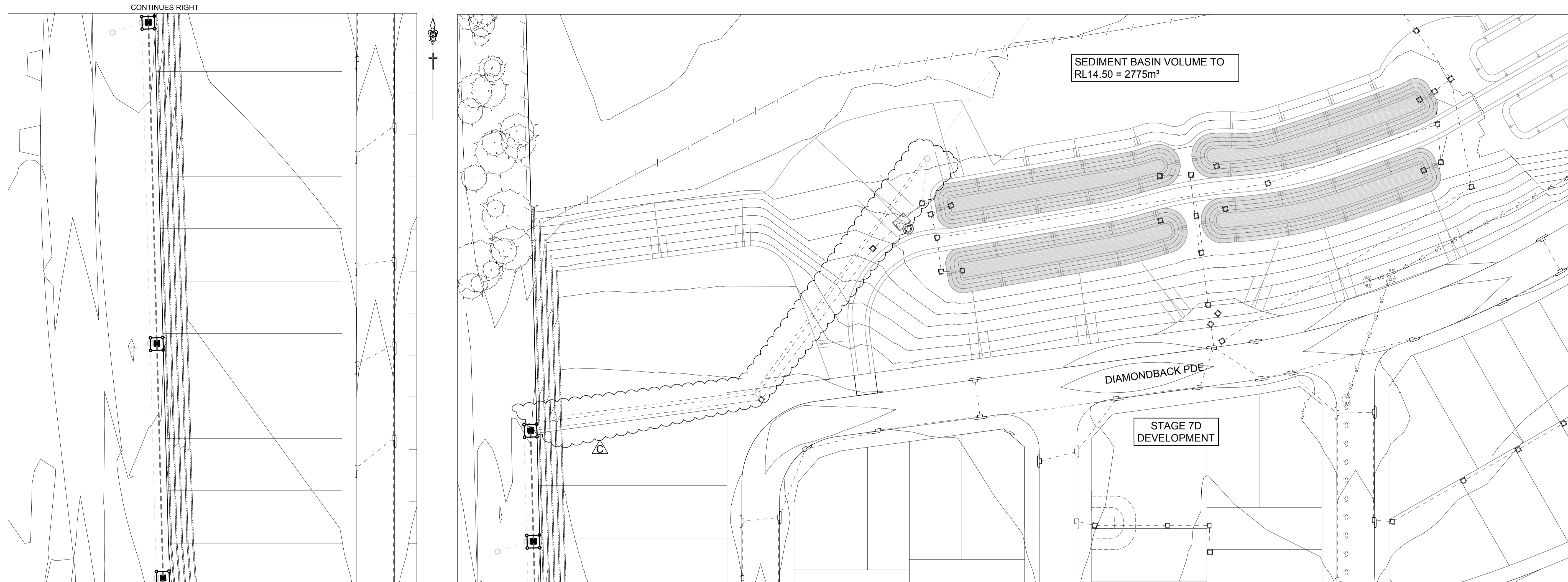
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NEWPARK PRECINCT 7, STAGE 7F
 SOIL & WATER MANAGEMENT PLAN
 SHEET 1
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC19701

PROJECT No: **9985-12**
 SHEET No: **CC19701**
 C

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1. Site Data Sheet

Site Name: **NEWPARK PRECINCT 7F**
 Site Location: **MARSDEN PARK**
 Precinct: **BLACKTOWN CITY COUNCIL**
 Description of Site: **SEDIMENT BASIN TO SUPPORT THE PRECINCT 7F SUBDIVISION CONSTRUCTION**

Site area	P7F	Site	Remarks
Total catchment area (ha)	3.28		
Disturbed catchment area (ha)	3.28		

Soil analysis

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

Rainfall data

Design rainfall depth (day s)	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

Rainfall erosivity (R-factor)	2250		Automatic calculation from above data
Soil erodibility (K-factor)	0.038		
Slope length (m)	60		RUSLE data can be obtained from Appendices A, B and C
Slope gradient (%)	2		
Length/gradient (LS-factor)	0.47		
Erosion control practice (P-factor)	1.3		
Ground cover (C-factor)	1		

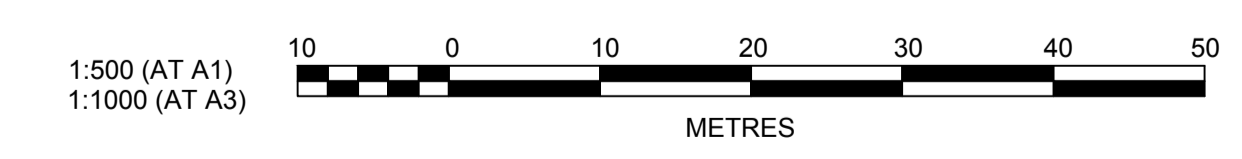
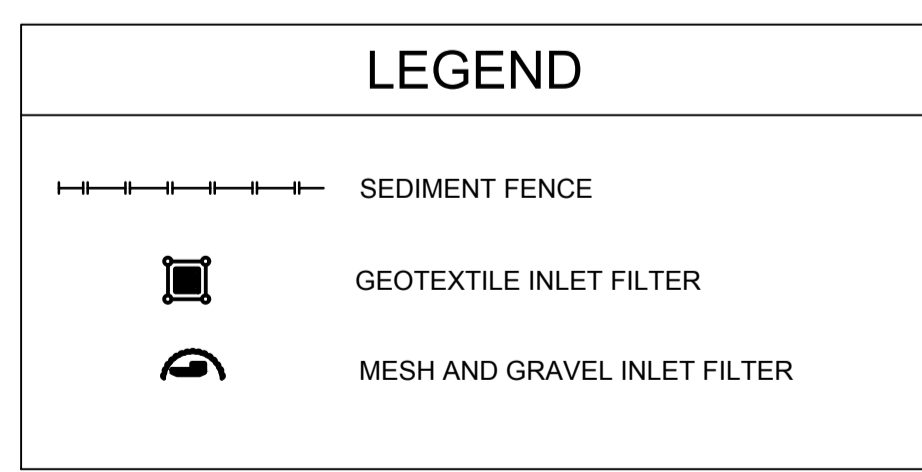
Calculations

Soil loss (t/ha/yr)	52		
Soil Loss Class	1		See Section 4.4.2(b)
Soil loss (m ³ /ha/yr)	40		
Sediment basin storage volume, m ³	22		See Sections 6.3.4(i) and 6.3.5 (e)

NOTE:
 TOTAL SOIL LOSS FROM THE STAGE 7F SITE IS 131m³/year. AS THIS IS LESS THAN 150m³/year, A SEDIMENT BASIN IS NOT REQUIRED IN ACCORDANCE WITH SECTION 6.3(d) OF THE BLUE BOOK.

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature.....*PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F



REFER TO DRAWING CC19701 FOR CONTINUATION

AMENDMENT	DES	DRN	CKD	APR	DATE
C EXISTING PIPE UPDATED	KE	JM	MS	MS	17/02/23
B DRAINAGE AMENDED	DG	DG	KE	KE	29/11/22
A ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22

J. WYNDHAM PRINCE
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CLIENT:

WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK PRECINCT 7, STAGE 7F
 SOIL & WATER MANAGEMENT PLAN
 SHEET 2

PROJECT No: **9985-12**
 SHEET No: **CC19702**

PLAN No: **9985-12-CC19702**

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

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
C3	Kerbside Linemarking for No Stopping Restrictions		Reflectorised yellow

NEWPARK PRECINCT 7
STAGE 7E
REFER TO 9985-12-CC15001-15803
BY J WYNDHAM PRINCE

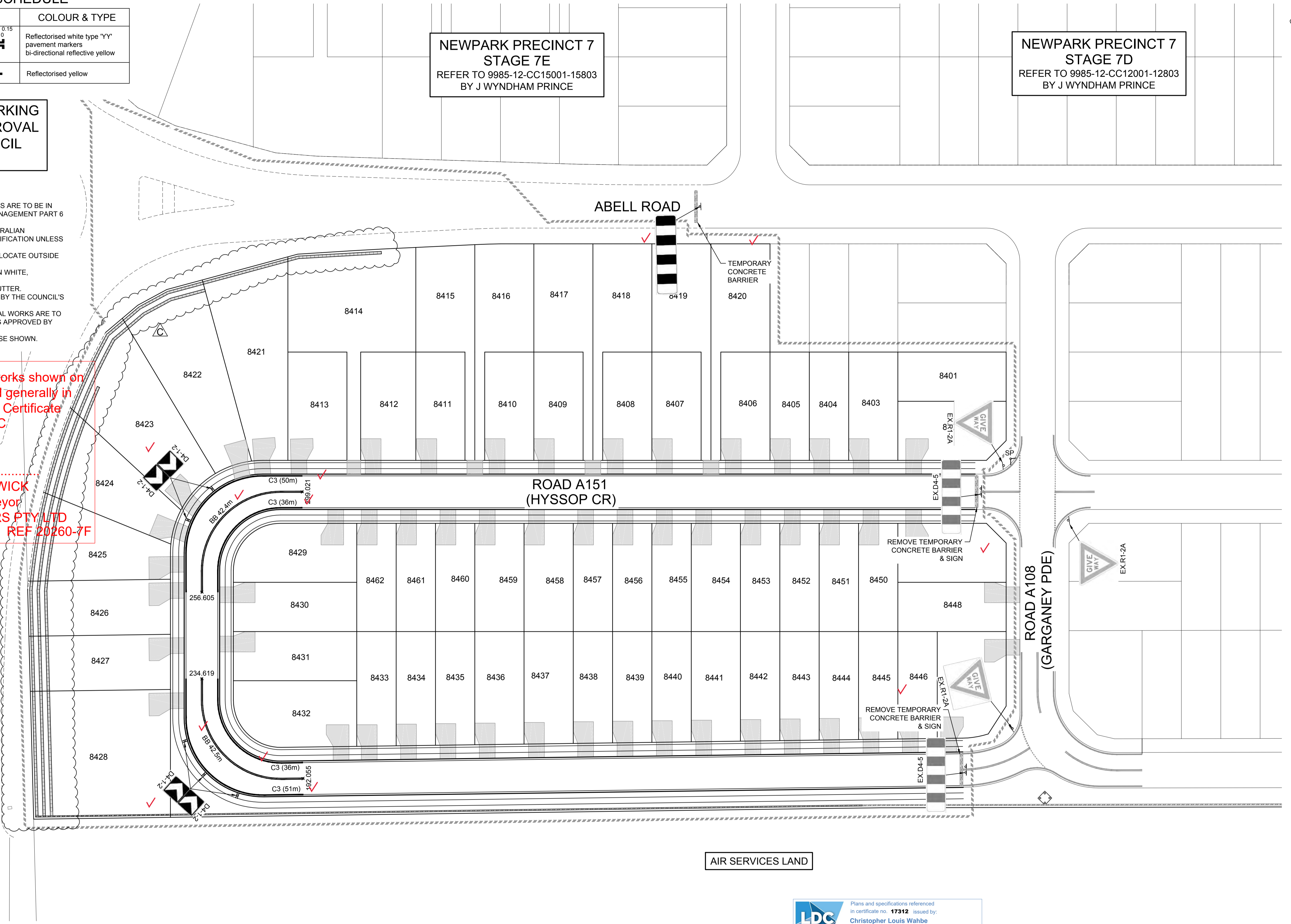
NEWPARK PRECINCT 7
STAGE 7D
REFER TO 9985-12-CC12001-12803
BY J WYNDHAM PRINCE

THESE SIGNAGE AND LINEMARKING PLANS ARE SUBJECT TO APPROVAL BY BLACKTOWN CITY COUNCIL TRAFFIC COMMITTEE

- NOTES
- ALL PAVEMENT MARKINGS, CHEVRONS AND REFLECTORS ARE TO BE IN ACCORDANCE WITH AUSTRROADS 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.

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F

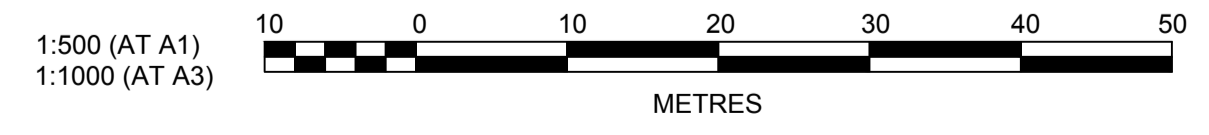


STONY CREEK ROAD

SHANE PARK ROAD

AIR SERVICES LAND

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 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
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REV	DESCRIPTION	DES	DRN	CKD	APR	DATE
C	RETAINING WALL & EXISTING PIPE UPDATED	KE	JM	MS	MS	17/02/23
B	COUNCIL COMMENTS	DG	NJ	KE	KE	28/09/22
A	ISSUE FOR SWC APPROVAL	DG	NDW	KE	MS	08/06/22
	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: **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 7F
 SIGNAGE & LINEMARKING PLAN

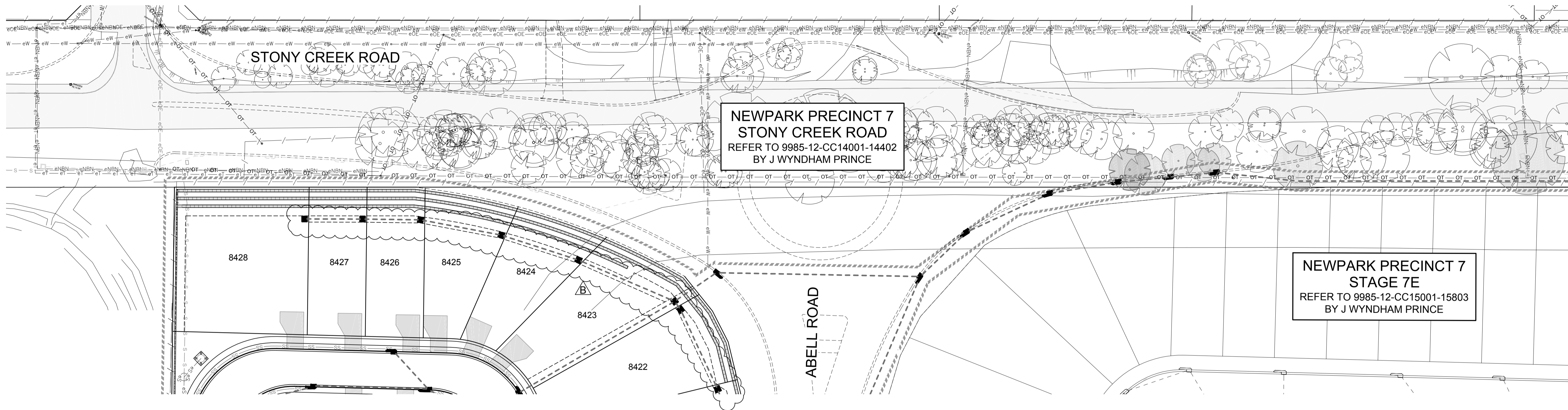
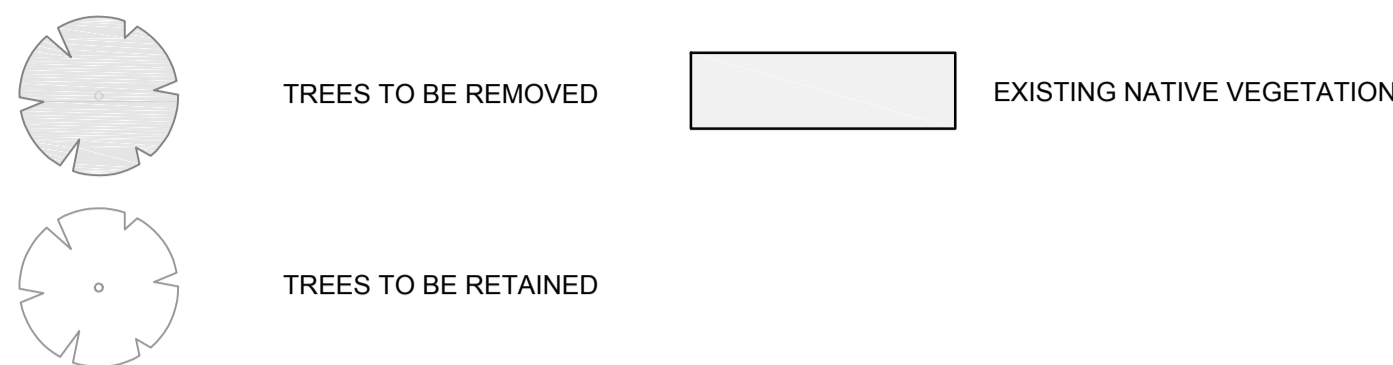
PROJECT No: **9985-12**
 SHEET No: **CC19800**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC19800**

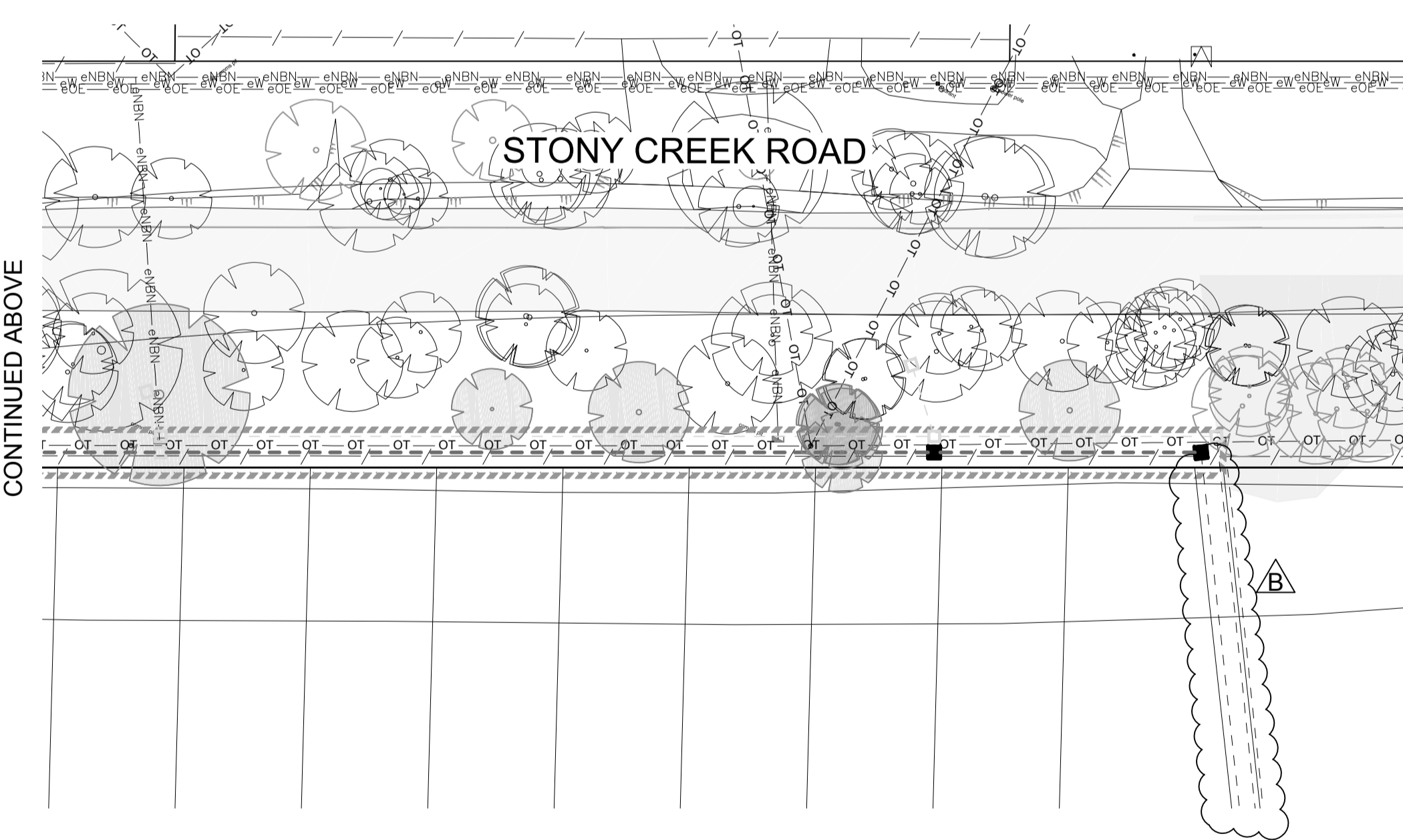
C

Plotfile: 17 February 2023 12:24:26 PM File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\19 - Precinct 7\9985-12-CC19800.dwg

LEGEND



CONTINUES BELOW



CONTINUED ABOVE

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17312 issued by LDC

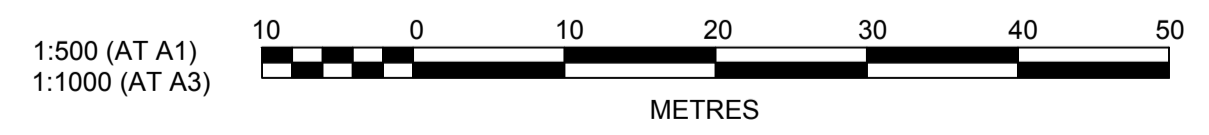
Signature *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 13/11/2023 REF 20260-7F

Plans and specifications referenced in certificate no. 17312 issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au



WARNING!
 UNDERGROUND SERVICE CABLES IN VICINITY. EXERCISE EXTREME CAUTION DURING EXCAVATION. CONTACT "DIAL BEFORE YOU DIG" PRIOR TO ANY CONSTRUCTION WORK

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTORS ARE RESPONSIBLE TO LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES & STANDARDS. NOTE: UTILITIES SHOWN MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS



B	RETAINING WALL & INTERALLOTMENT UPDATED	KE	JM	MS	MS	17/02/23
A	ISSUE FOR SWC APPROVAL	KE	NJ	MS	DG	12/12/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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NEWPARK PRECINCT 7, STAGE 7F
 TREE REMOVAL PLAN

PROJECT No: **9985-12**
 SHEET No: **CC19900**

PLAN No: **9985-12-CC19900**

PROJECT No: **9985-12**
 SHEET No: **CC19900**

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

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