

Plans are referenced in certificate number

200076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20



PS



NEWPARK - PRECINCT 6C SUBDIVISION WORKS CERTIFICATE

PROPOSED LOT, ROAD AND DRAINAGE WORKS
 COUNCIL REF: DA-19-01573



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C

Plotted: 4 September, 2020 3:57:08 PM File Name: J:\9898D\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6C\9898-11-CC4001.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
B					04/09/20
A					22/05/20

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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NEW PARK PRECINCT 6C COVER SHEET

PROJECT No: **9985-11**
 SHEET No: **CC4001**

PLAN No: **9985-11-CC4001**

PROJECT No: **9985-11**
 SHEET No: **CC4001**

PLAN No: **9985-11-CC4001**

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-11-CC4001 B

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 Date: 09/09/20

- ALL WORKS ARE TO BE IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S WORKS SPECIFICATION - CIVIL (CURRENT VERSION).
- Subdivision Certifiers Pty Ltd**
 a. SURVEY MARKS SHOWN ON THIS PLAN 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: 8552/1-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.
 - AGRICULTURAL LINES TO BE PLACED AS DIRECTED.

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 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 900mm 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.
- A MINIMUM OF 3m OF SUBSOIL LINE SHALL BE LAND UPSTREAM SIDE OF COUNCIL PITS.

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.
- 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.

ROADS ACT AUTHORITY:

- ANY WORKS WITHIN THE EXISTING ROAD RESERVE IS SUBJECT TO A SEPARATE ROADS ACT AUTHORITY APPROVAL. NO WORKS WITHIN THE EXISTING ROAD RESERVE IS TO BE COMPLETED UNTIL APPROVAL GIVEN.

SURFACE NOTES

- BATTER SLOPES ARE TYPICALLY 1v:5h UNLESS NOTED OTHER WISE.
- EXISTING SURFACE BASED ON CC PRECINCT 6 DESIGN.

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.

LEGEND			
DESCRIPTION	PROPOSED	EXISTING	FUTURE
EXTENT OF WORKS			
KERB & GUTTER			
ROLL KERB			
VEHICULAR CROSSING			
PRAM RAMP			
DRAINAGE LINE, PIT & EASEMENT			
DRAINAGE LINE & PIT			
SUBSOIL			
CONTOURS			
KERB RETURN No			
STREET NAME SIGNS			
STATE SURVEY MARKS			
STAGE BOUNDARY			
CATCHMENT BOUNDARY			
FLOW DIRECTION ARROW			
INDICATIVE DRIVEWAYS LOCATIONS			
EXISTING ROADS			

CIVIL PLAN INDEX		
PLAN NO.	PLAN NAME	REV
9985-11-CC4001	COVER SHEET	B
9985-11-CC4002	LEGEND, INDEX & GENERAL NOTES	B
9985-11-CC4003	OVERALL LAYOUT PLAN	B
9985-11-CC4004	ROAD SETOUT PLAN	B
9985-11-CC4005	PAVEMENT PLAN	B
-		
9985-11-CC4010	CUT AND FILL PLAN	B
9985-11-CC4011	ENGINEERING PLAN	B
9985-11-CC4012	EXISTING SERVICES PLAN	B
9985-11-CC4101	LONGITUDINAL SECTIONS	B
9985-11-CC4201	CROSS SECTIONS	B
9985-11-CC4301	KERB RETURN PLAN	B
-		
9985-11-CC4401	CATCHMENT PLAN	B
9985-11-CC4411	STORMWATER CALCULATIONS TABLES SHEET 1	B
9985-11-CC4412	STORMWATER CALCULATIONS TABLES SHEET 2	B
9985-11-CC4413	STORMWATER CALCULATIONS TABLES SHEET 3	B
9985-11-CC4414	STORMWATER CALCULATIONS TABLES SHEET 4	B
9985-11-CC4415	STORMWATER CALCULATIONS TABLES SHEET 5	B
9985-11-CC4421	STORMWATER LONGITUDINAL SECTIONS SHEET 1	B
9985-11-CC4422	STORMWATER LONGITUDINAL SECTIONS SHEET 2	B
9985-11-CC4423	STORMWATER LONGITUDINAL SECTIONS SHEET 3	B
-		
9985-11-CC4700	SOIL & WATER MANAGEMENT NOTES	B
9985-11-CC4701	SOIL & WATER MANAGEMENT PLAN	B
-		
9985-11-CC4800	SIGNAGE & LINEMARKING PLAN	B
9985-11-CC4810	PITS C11/1 & D19/1 DETAILS	B

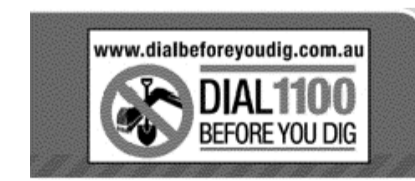
SURVEYED BY:
 WAE
 CAD REFERENCE: 20260-6-MESH.dxf
 DATE RECEIVED: 1/9/20

LOT BOUNDARIES CALCULATED BY VMS
 CAD REFERENCE: STAGE 20260-6C3-DP-130520.dxf
 DATE RECEIVED: 13/05/20

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Signature:
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C



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

Plotted: 4 September, 2020 3:57:18 PM File Name: J:\98985D\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SP\PRECINCT 6\98985-11-CC4002.dwg

B	ISSUE FOR CONSTRUCTION APPROVAL	KM	JM	MP	MS	04/09/20
A	ISSUE FOR TENDER	KM	VS	MP	MS	22/05/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
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CLIENT:

W WINTEN PROPERTY GROUP

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NEW PARK PRECINCT 6C
 LEGEND, INDEX & GENERAL NOTES

PROJECT No: **9985-11**
 SHEET No: **CC4002**

PLAN No: **9985-11-CC4002**


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

B

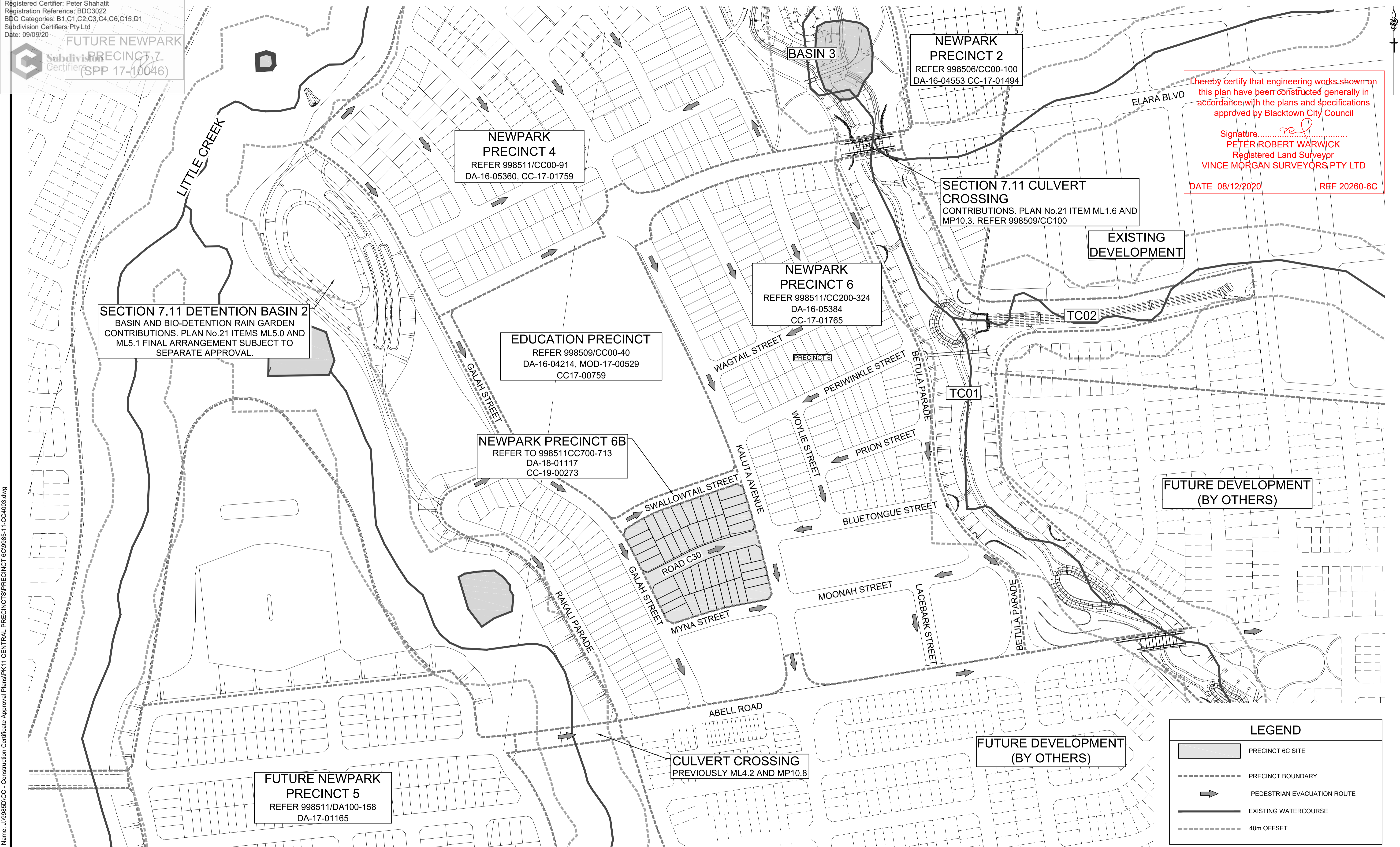
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 Subdivision Certifiers Pty Ltd
 Date: 09/09/20

**FUTURE NEWPARK
 PRECINCT 7**
 SPP 17-10046

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VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C



SECTION 7.11 DETENTION BASIN 2
 BASIN AND BIO-DETENTION RAIN GARDEN
 CONTRIBUTIONS. PLAN No.21 ITEMS ML5.0 AND
 ML5.1 FINAL ARRANGEMENT SUBJECT TO
 SEPARATE APPROVAL.

**NEWPARK
 PRECINCT 4**
 REFER 998511/CC00-91
 DA-16-05360, CC-17-01759

**NEWPARK
 PRECINCT 2**
 REFER 998506/CC00-100
 DA-16-04553 CC-17-01494






EDUCATION PRECINCT
 REFER 998509/CC00-40
 DA-16-04214, MOD-17-00529
 CC17-00759

**NEWPARK
 PRECINCT 6**
 REFER 998511/CC200-324
 DA-16-05384
 CC-17-01765

NEWPARK PRECINCT 6B
 REFER TO 998511CC700-713
 DA-18-01117
 CC-19-00273

**FUTURE NEWPARK
 PRECINCT 5**
 REFER 998511/DA100-158
 DA-17-01165

CULVERT CROSSING
 PREVIOUSLY ML4.2 AND MP10.8

LEGEND	
	PRECINCT 6C SITE
	PRECINCT BOUNDARY
	PEDESTRIAN EVACUATION ROUTE
	EXISTING WATERCOURSE
	40m OFFSET

1:2000 (AT A1)
 1:4000 (AT A3)

50 0 50 100 150 200
 METRES

Plotted: 4 September, 2020 3:57:30 PM File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCTS\PRECINCT 6C\9985-11-CC4003.dwg

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B	KM	JM	MP	MS	04/09/20
A	KM	VS	MP	MS	22/05/20

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**NEW PARK
 PRECINCT 6C
 OVERALL LAYOUT PLAN**

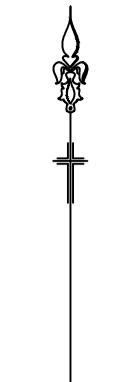
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AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-11-CC4003**

PROJECT No: **9985-11**
 SHEET No: **CC4003**

PLAN No: **9985-11-CC4003**

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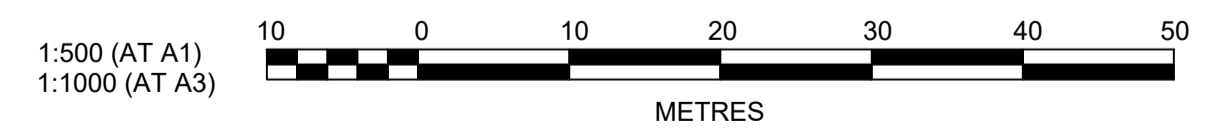
ROAD C30					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
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63.91	296454.7	6268896.67	63°07'07.59"		
82.87	296471.67	6268905.27		189	37.92
101.83	296490.01	6268910.31	74°36'49.74"		
130.9	296518.04	6268918.03	74°36'49.74"		
137.32	296524.24	6268919.73		150	12.84
143.75	296530.55	6268920.9	79°31'09.66"		
152.7	296539.36	6268922.53	79°31'09.66"		

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

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NEW PARK PRECINCT 6C
 ROAD SETOUT PLAN

PROJECT No: **9985-11**
 SHEET No: **CC4004**

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-11-CC4004**

PROJECT No: **9985-11**
 SHEET No: **CC4004**

PLAN No: **9985-11-CC4004**

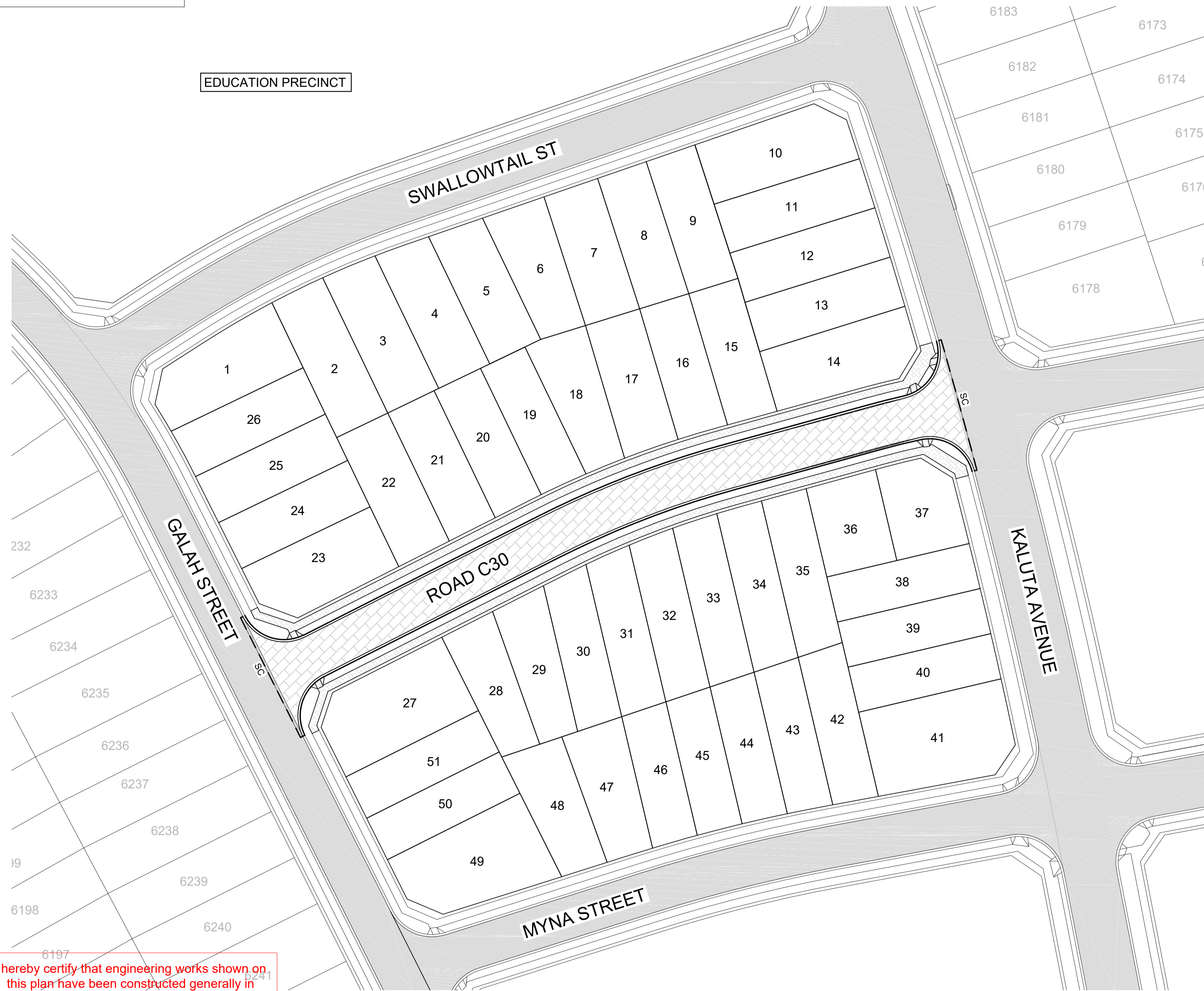
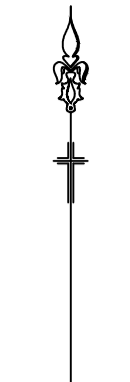
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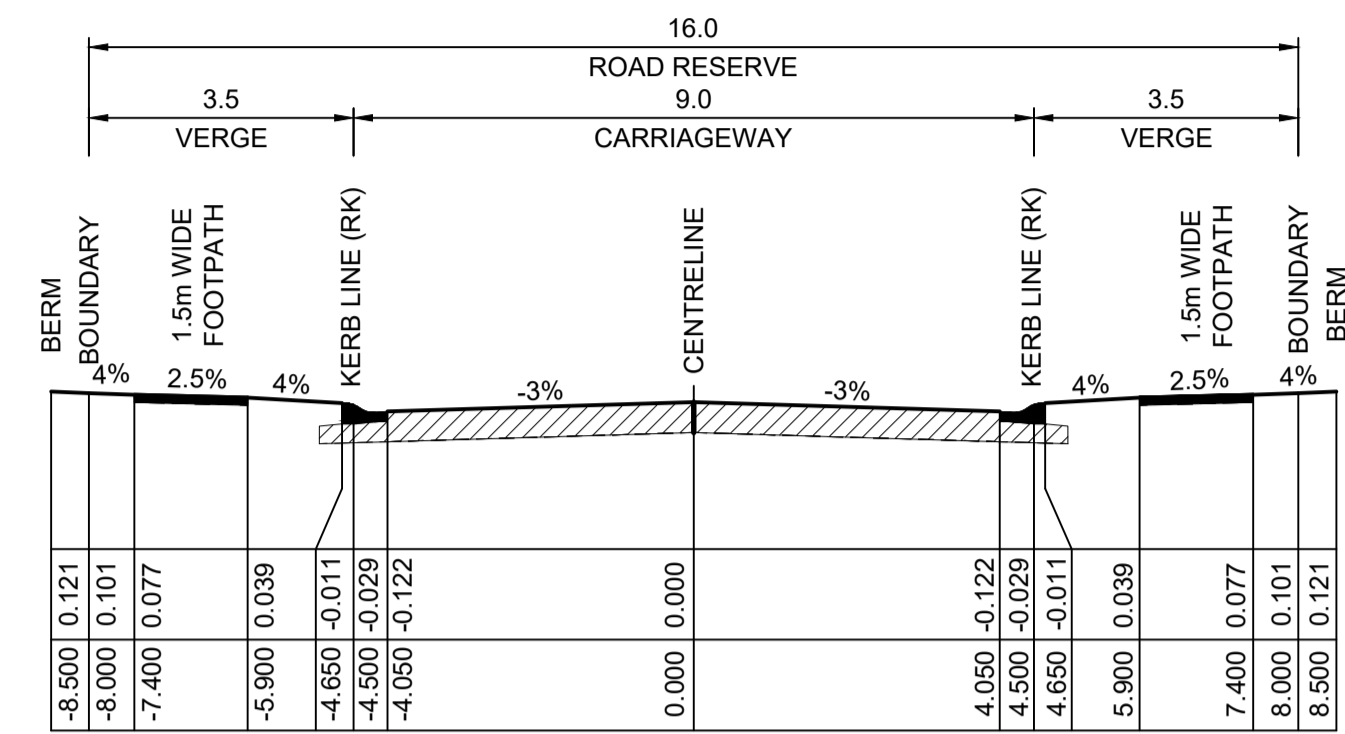
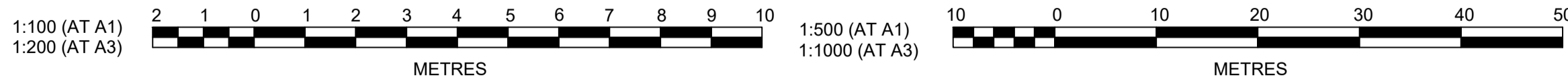


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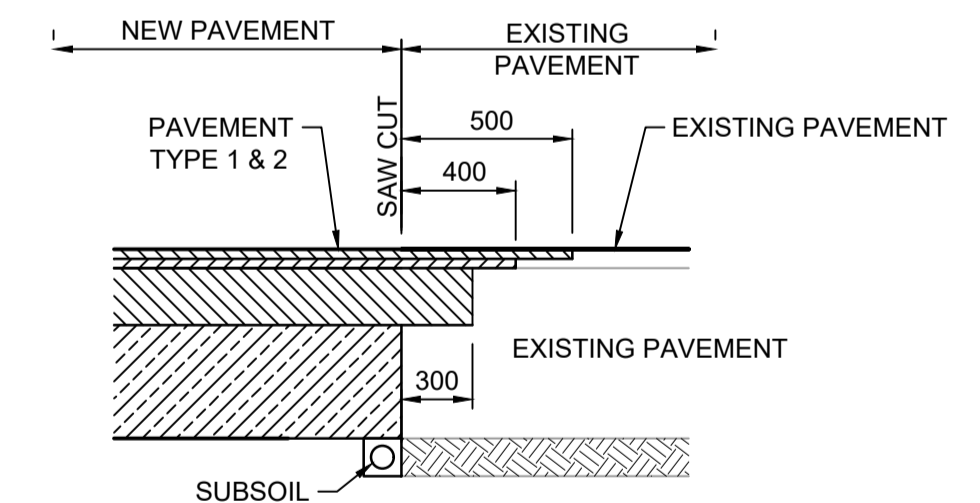
DATE 08/12/2020 REF 20260-6C

PLAN
 SCALE 1:500



TYPICAL CROSS SECTION
 LOCAL STREET PAVEMENT - TYPE 1
 1:100 NATURAL

LEGEND	
PAVEMENT DESIGN (REFER TO REPORT BY GEOTECH TESTING PTY LTD (Ref: 8581/3-AA-R1, DATED 22 JUNE, 2020))	
	PAVEMENT TYPE 2 (LOCAL) ESA 5x10 ⁶ (TO BE CONFIRMED AT DETAILED DESIGN) AC10 (mm) = 2x25 SINGLE COAT FLUSH SEAL = 150 BASE COURSE - DGB20 (mm) = 270 SUB-BASE COURSE - CRUSHED SANDSTONE (mm) = 470 TOTAL (mm) SUBGRADE - REPLACES 300mm OF SUBGRADE WITH CRUSHED SANDSTONE (CBR 4%)
	PAVEMENT TYPE 3 (FOOTPATH) CONCRETE 125mm TO BLACKTOWN CITY COUNCIL "PATH PAVING POLICY 2009"
	EXISTING ROAD PAVEMENT PRECINCT 6 - REFER TO J WYNDHAM PRINCE DRG REFER 998511/CC200 - CC321
	SAW CUT



INTERFACE BETWEEN NEW PAVEMENT AND EXISTING FLEXIBLE PAVEMENTS
 NTS

Plotfile: 4 September, 2020 3:58:16 PM File Name: J:\985EDICC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\CC4005.dwg

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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



STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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

NEW PARK
 PRECINCT 6C
 PAVEMENT PLAN

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-11-CC4005

PROJECT No:
9985-11
 SHEET No:
CC4005

B

Plans are referenced in certificate number

200076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20



PS

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

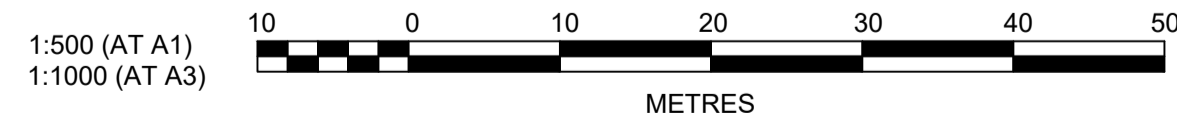
Signature: *PR*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C



LEGEND		
Lower_value	Upper_value	Colour
-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	to 0.2	m

- NOTES:
- DEPTH OF CUT/FILL SHOWN BETWEEN PRECINCT 6 DESIGN SURFACE & PRECINCT 6C BEW SURFACE.
 - FLOOD STORAGE WAS RESOLVED AS PART OF THE BULK EARTHWORKS PLANS, THERE IS NO NEGATIVE IMPACT ON THE FLOOD STORAGE BALANCE WITH THIS DESIGN.



Plotted: 4 September 2020 3:58:41 PM File Name: J:\9985BDC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6C\9985-11-CC4010.dwg

B	ISSUE FOR CONSTRUCTION APPROVAL	KM	JM	MP	MS	04/09/20
A	ISSUE FOR TENDER	KM	VS	MP	MS	22/05/20
	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:

WINTIN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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

NEW PARK PRECINCT 6C CUT AND FILL PLAN

PROJECT No: **9985-11**
 SHEET No: **CC4010**

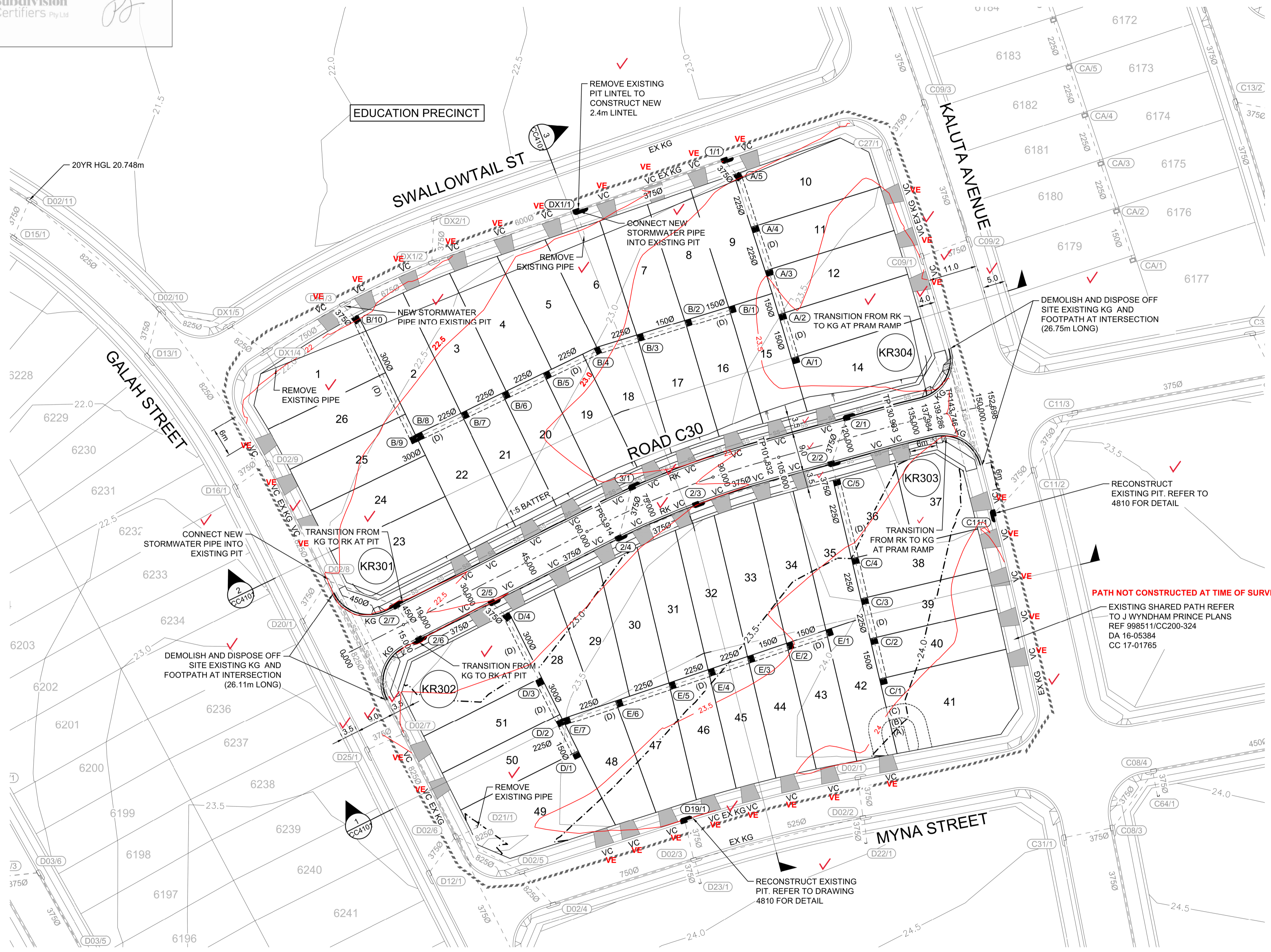
AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-11-CC4010**

B

Plans are referenced in certificate number 200076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20



PO



VE - DENOTES VEHICLE ENTRY CONSTRUCTED IN EXISTING KERB
 VEHICLE CROSSINGS NOT CONSTRUCTED AT TIME OF SURVEY

PATH NOT CONSTRUCTED AT TIME OF SURVEY

EXISTING SHARED PATH REFER TO J WYNDHAM PRINCE PLANS REF 998511/CC200-324 DA 16-05384 CC 17-01765

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature: *Peter Robert Warwick*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C

ROADS ACT AUTHORITY:
 ANY WORKS WITHIN THE EXISTING ROAD RESERVE IS SUBJECT TO A SEPARATE ROADS ACT AUTHORITY APPROVAL. NO WORKS WITHIN THE EXISTING ROAD RESERVE IS TO BE COMPLETED UNTIL APPROVAL GIVEN.

NOTE:
 VEHICLE CROSSING ALONG EXISTING ROADS: SAW CUT EXISTING KERB, DEMOLISH & DISPOSE OFF SITE. CONSTRUCT NEW VEHICLE CROSSING (VC) LAYBACK CROSSING TO BLACKTOWN CITY COUNCIL PLAN No. A(BS)1025.

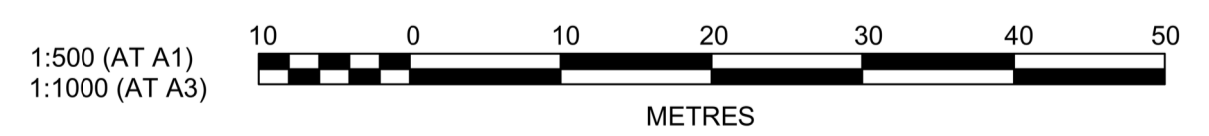
EASEMENT NOTES

(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



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



AMENDMENT	DES	DRN	CKD	APR	DATE
B	KM	JM	MP	MS	04/09/20
A	KM	VS	MP	MS	22/05/20

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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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PROJECT No: **9985-11**
 SHEET No: **CC4011**

NEW PARK PRECINCT 6C ENGINEERING PLAN

PLAN No: **9985-11-CC4011**

Plans are referenced in certificate number

200076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20



PS



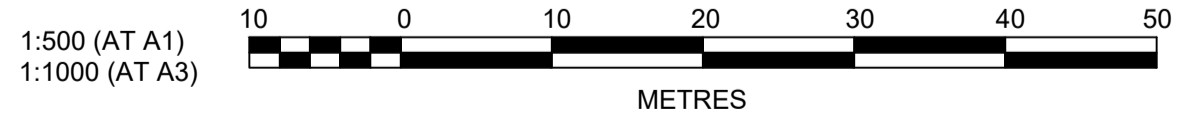
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—eG—eG—eG—	EXISTING GAS
—eE—eE—eE—	EXISTING ELECTRICAL
—NBNF—NBNF—	EXISTING NBN
—eS—eS—eS—	EXISTING SEWER
—[Symbol]—	PROPOSED STORMWATER
—[Symbol]—	EXISTING STORMWATER
—[Symbol]—	EXISTING STORMWATER
—[Symbol]—	EXISTING STORMWATER

Plotted: 4 September 2020 4:11:43 PM File Name: J:\985BDC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\0985-11-CC4012.dwg

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C



AMENDMENT	DES	DRN	CKD	APR	DATE
B	KM	JM	MP	MS	04/09/20
A	KM	VS	MP	MS	22/05/20

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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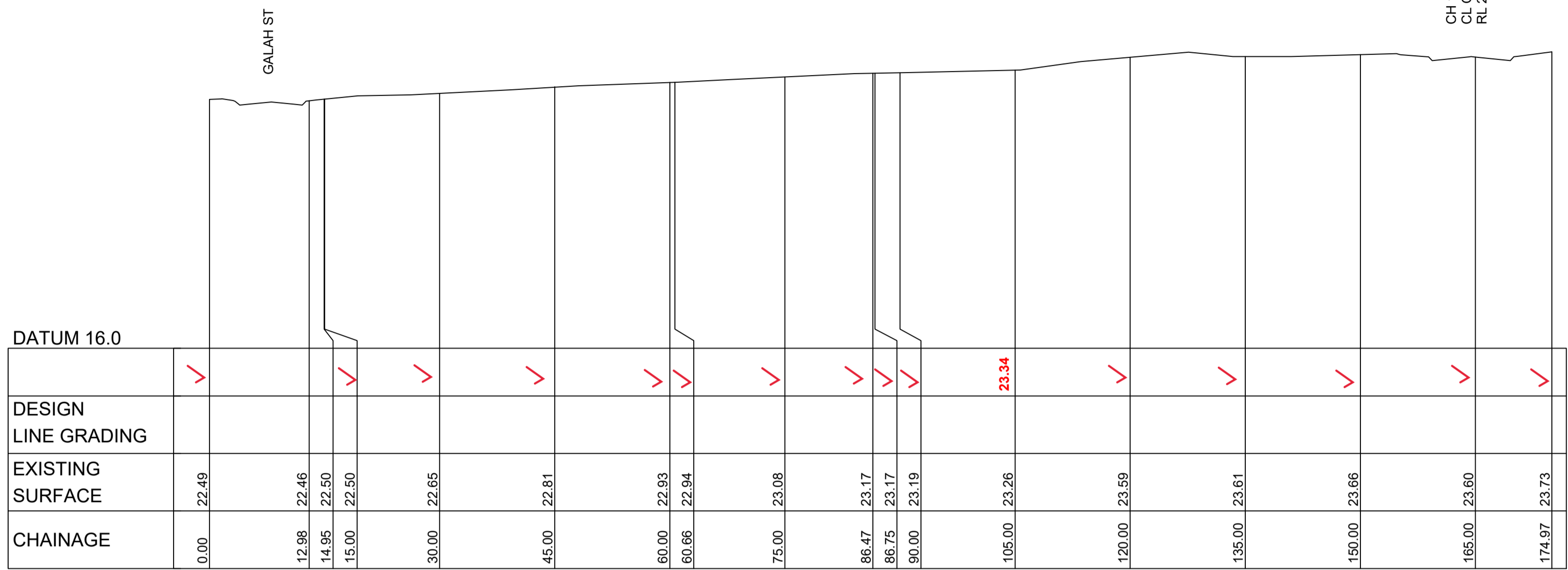
NEW PARK PRECINCT 6C
 EXISTING SERVICES PLAN

PROJECT No: **9985-11**
 SHEET No: **CC4012**
 PLAN No: **9985-11-CC4012**

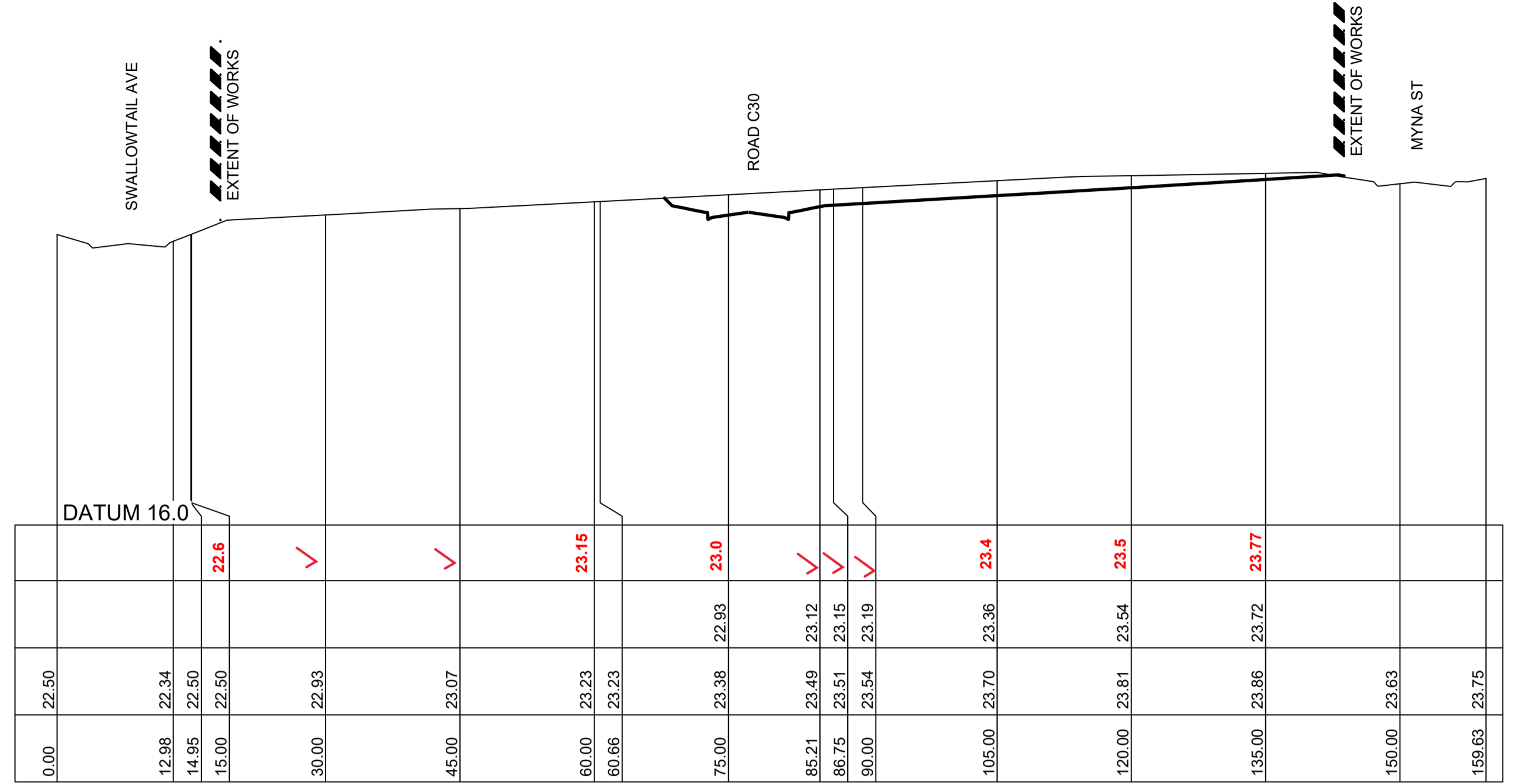
AZIMUTH: M.G.A.	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-11-CC4012	B
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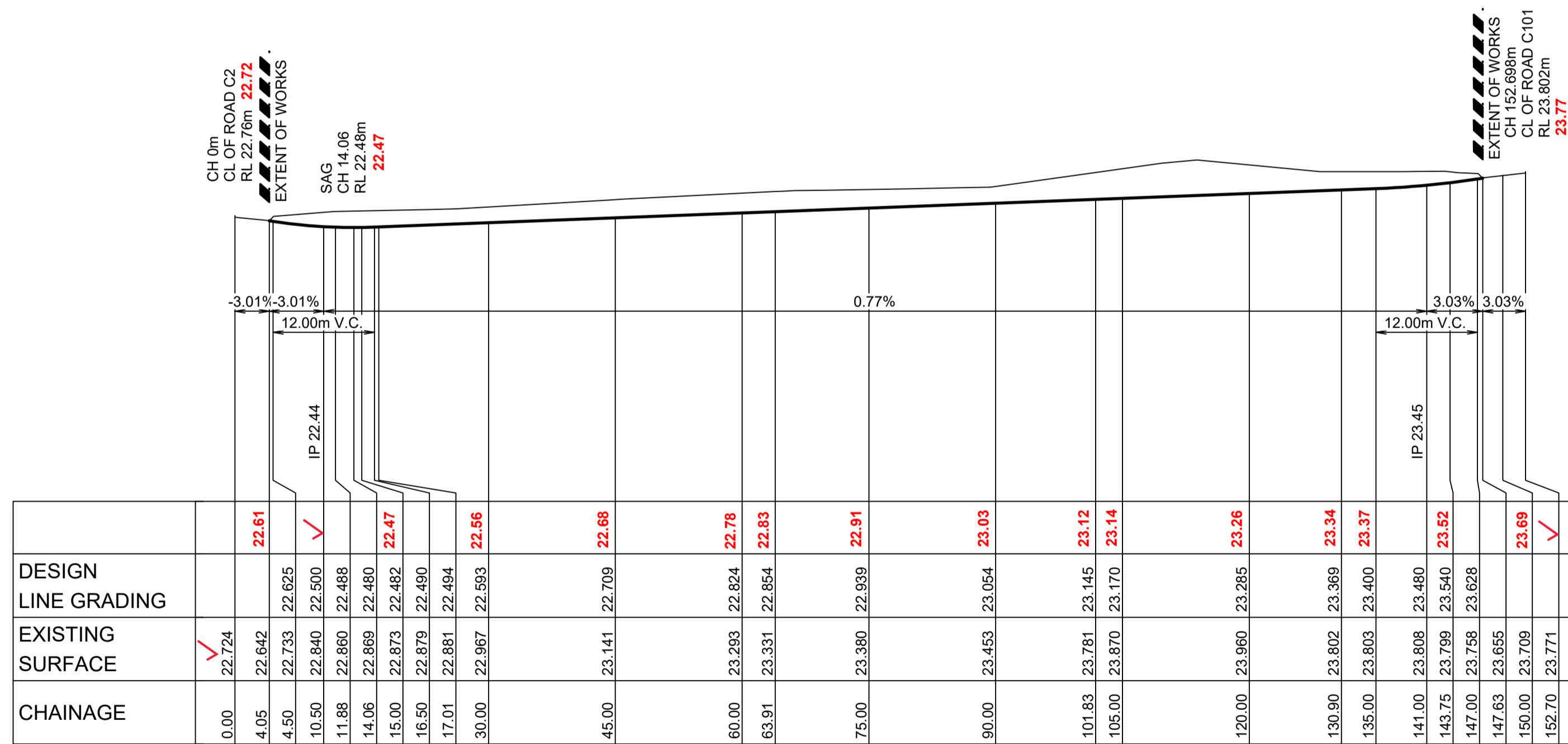
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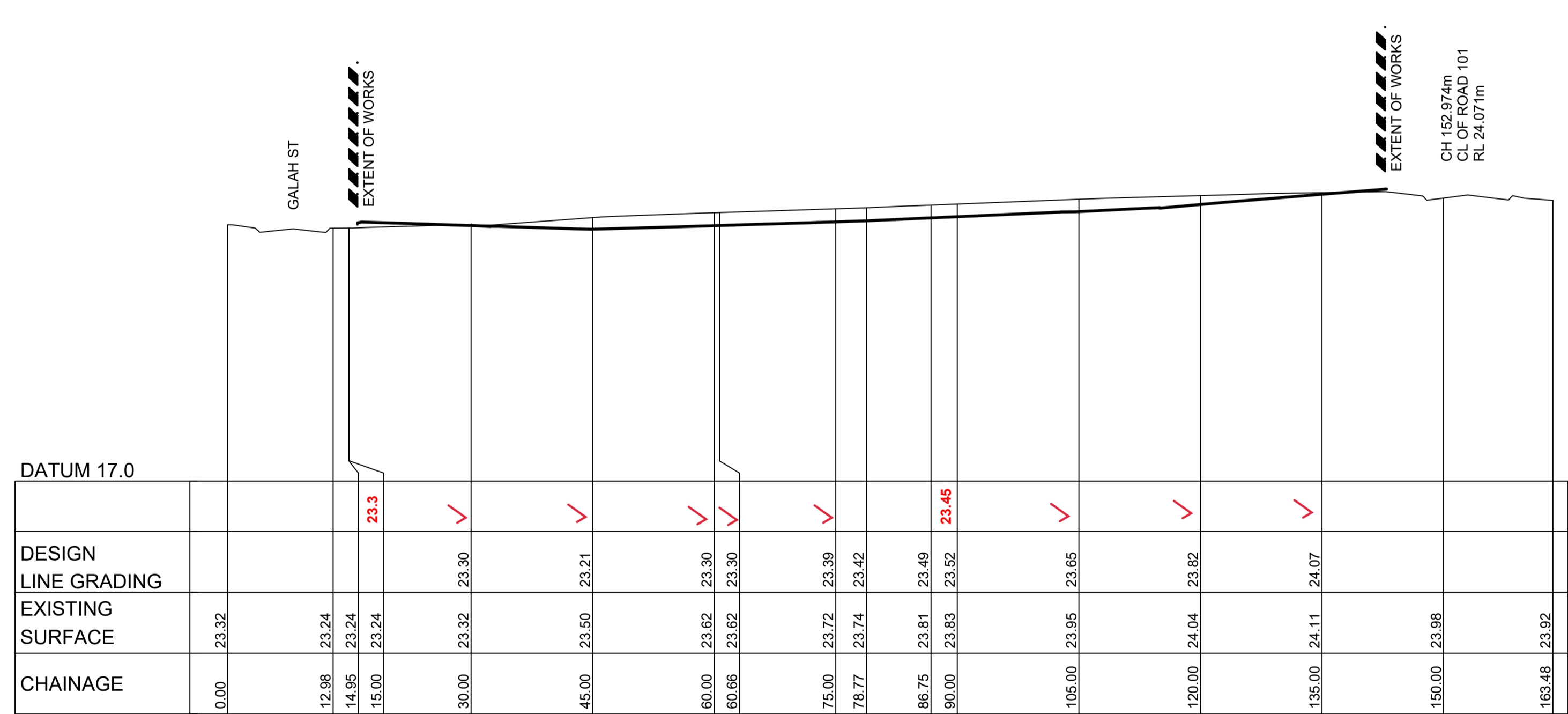
SECTION 2
 SCALE H 1:500
 V 1:100
 CC4011



SECTION 3
 SCALE H 1:500
 V 1:100
 CC4011

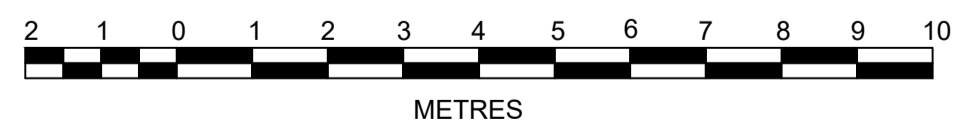


LONGITUDINAL SECTION ROAD C30
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100

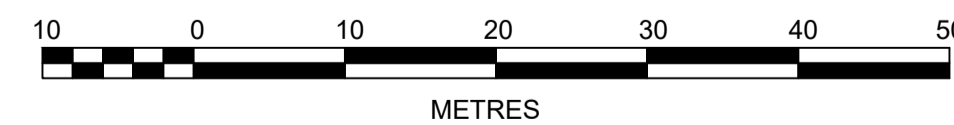


SECTION 1
 SCALE H 1:500
 V 1:100
 CC4011

1:100 (AT A1)
 1:200 (AT A3)



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



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C

Plotfile: 4 September, 2020 3:59:55 PM File Name: J:\9898D\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\CC4011.dwg

B	ISSUE FOR CONSTRUCTION APPROVAL	KM	JM	MP	MS	04/09/20
A	ISSUE FOR TENDER	KM	VS	MP	MS	22/05/20
	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

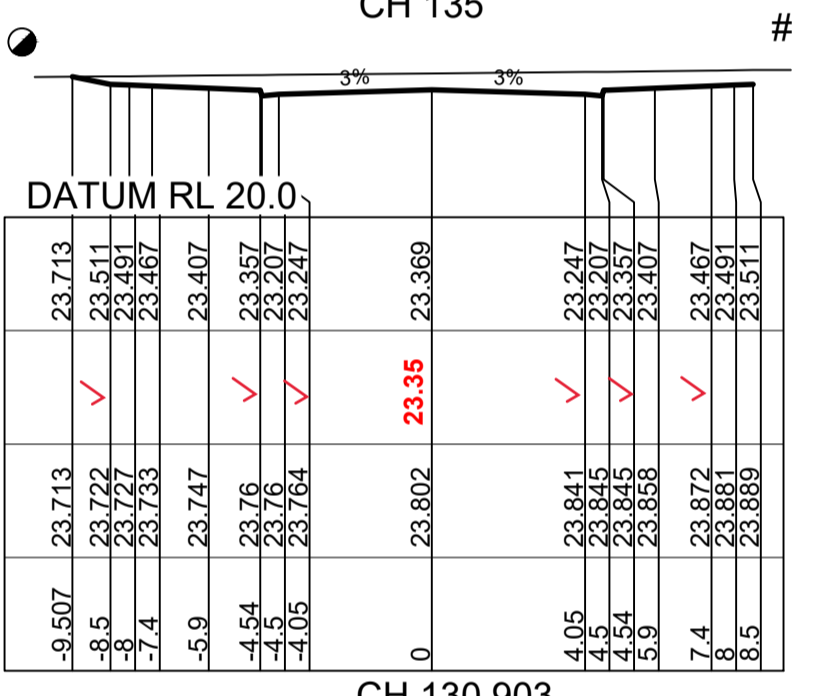
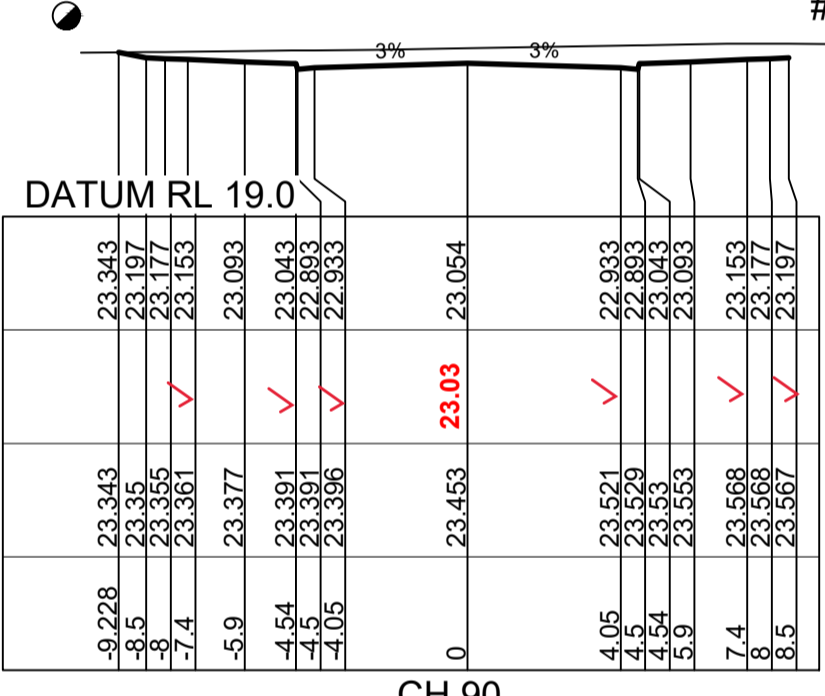
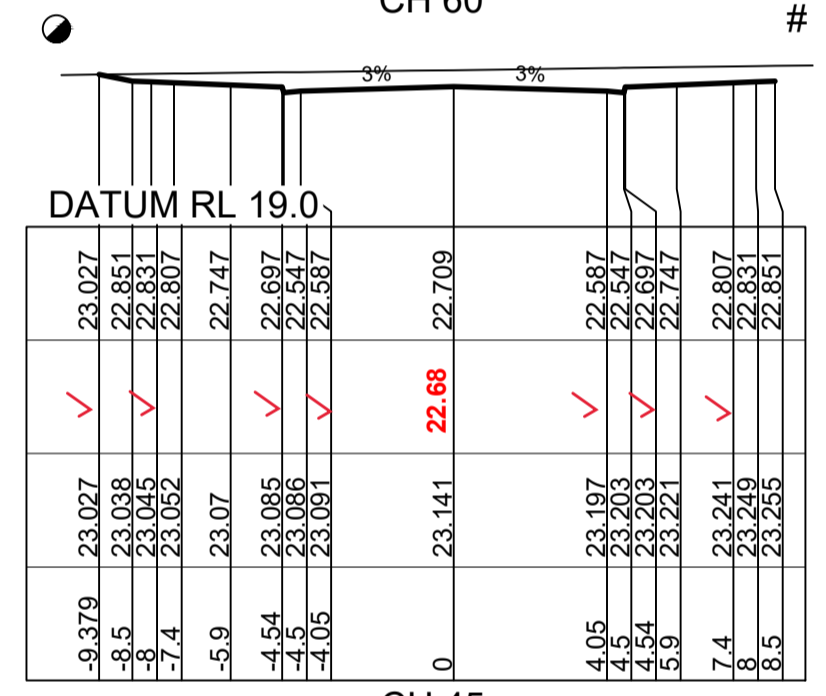
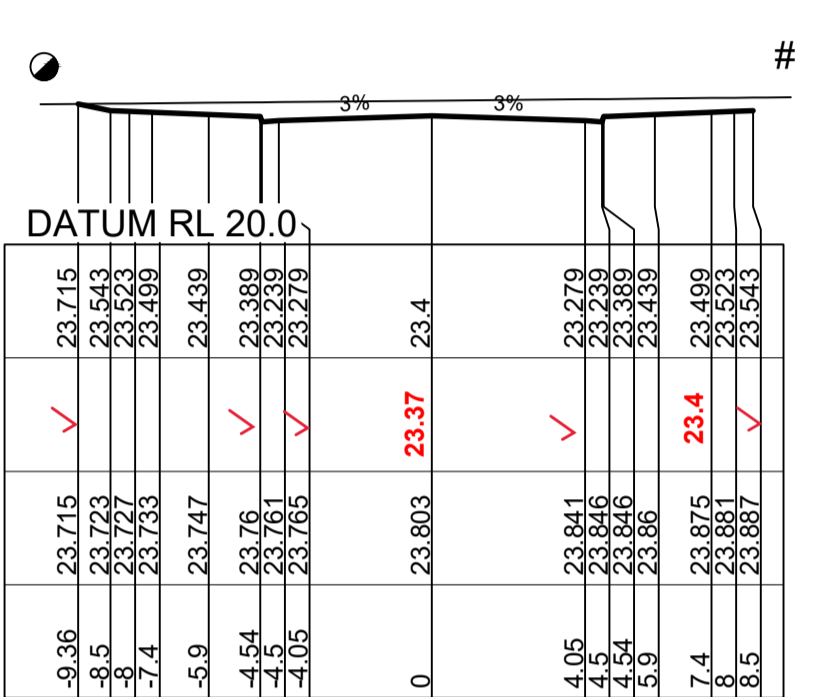
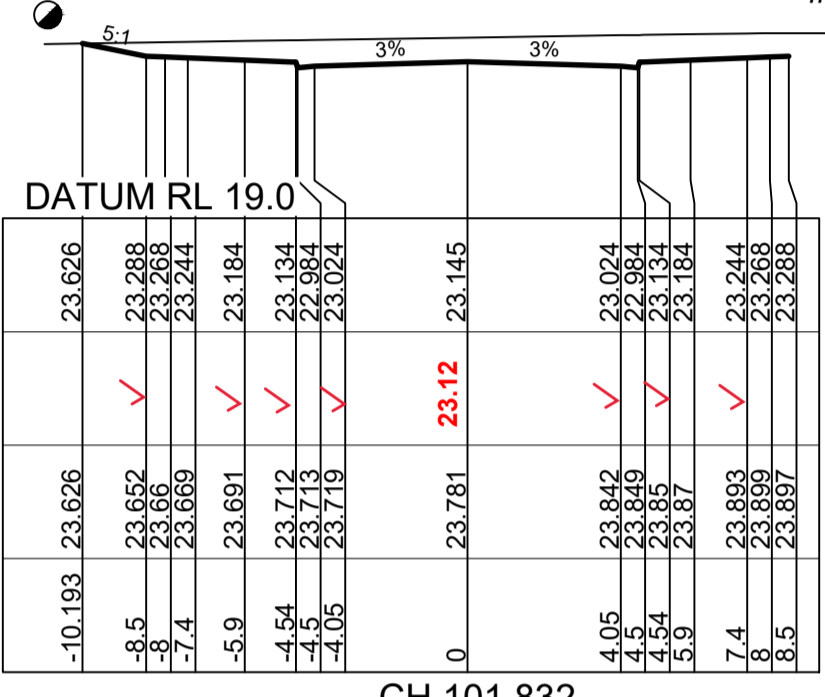
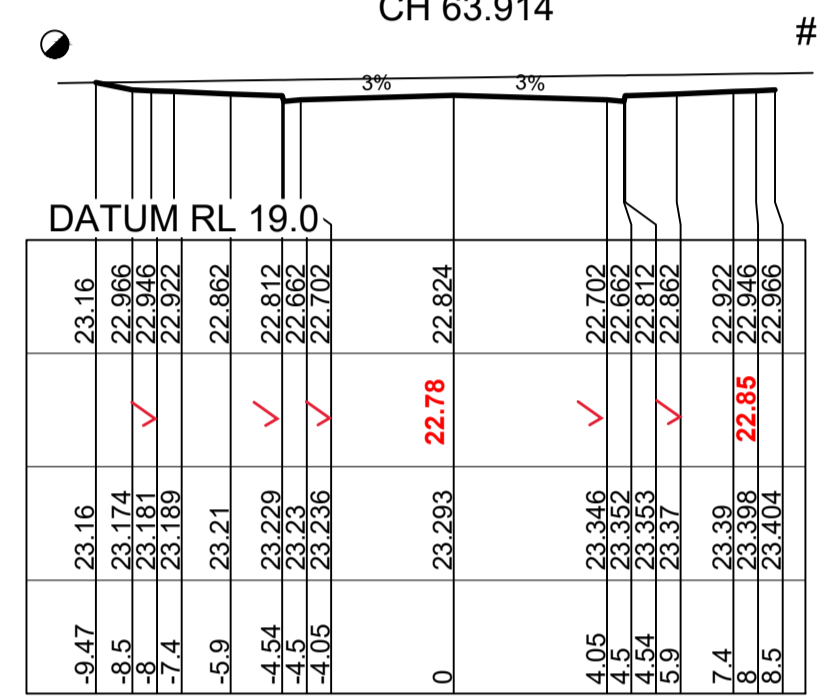
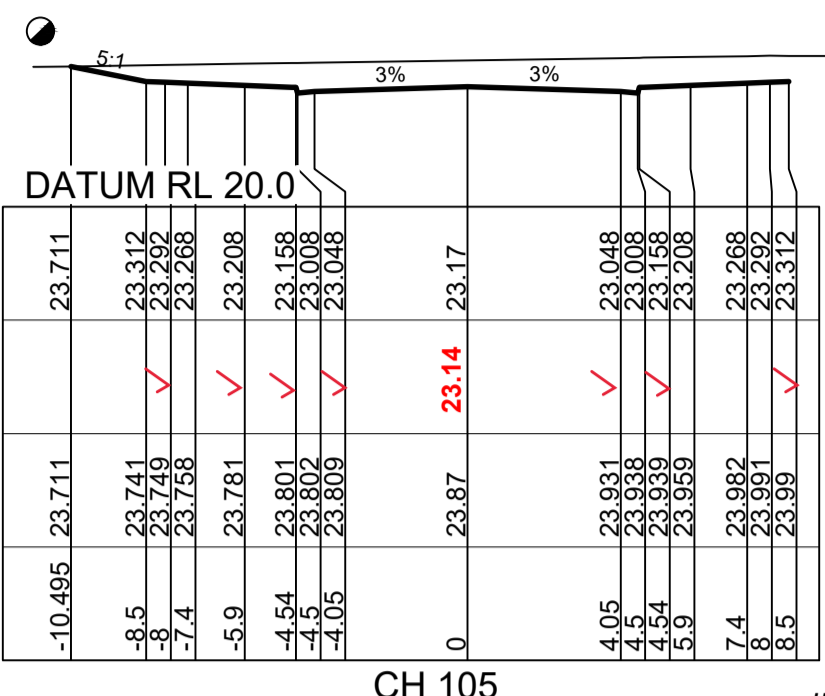
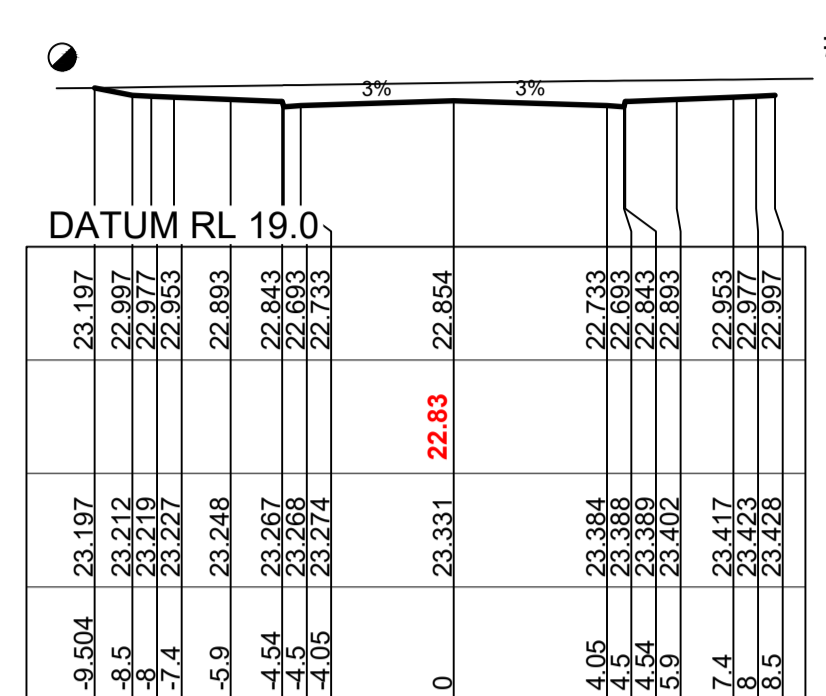
CLIENT:
WINTREN PROPERTY GROUP

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

NEW PARK PRECINCT 6C
 LONGITUDINAL SECTIONS
 AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-11-CC4101

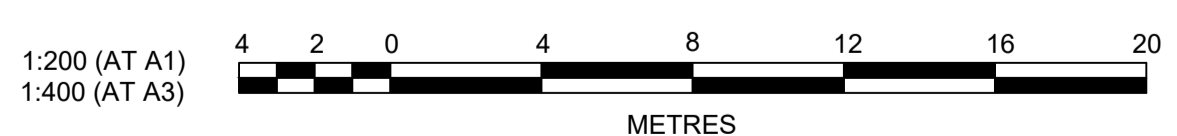
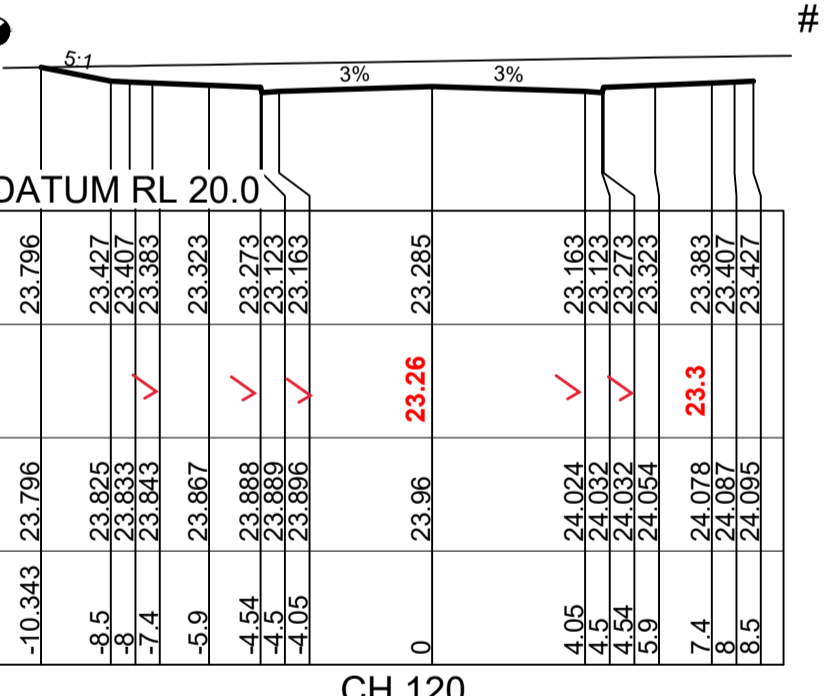
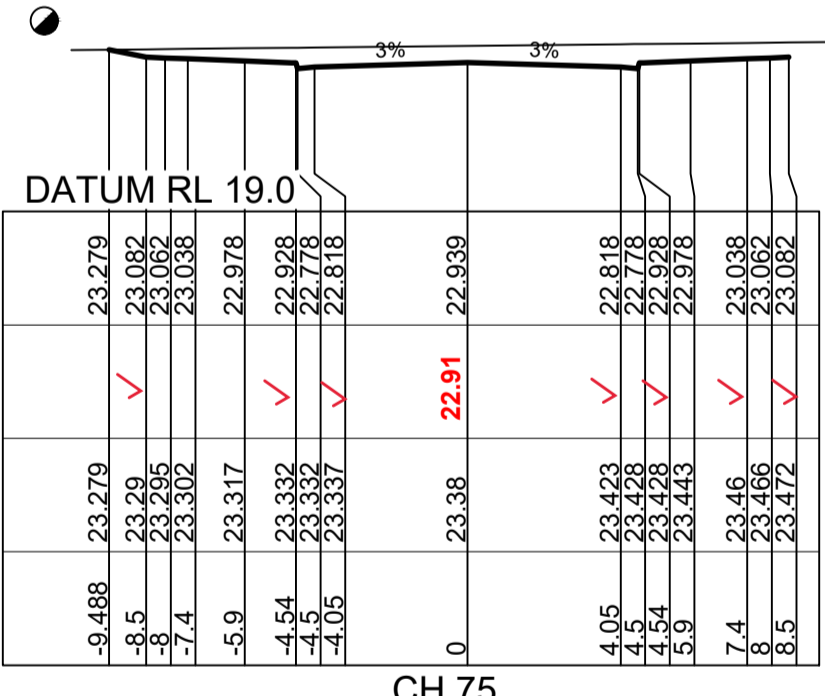
PROJECT No: **9985-11**
 SHEET No: **CC4101**
 B

- REFER TO CC4011 FOR LOT REGRADE
 ● - BATTER 1:4 TO EXISTING




Offset	Existing Surface Level	Design Surface Level	Design PCT6
-9.108	22.858	22.858	
-8.5	22.858	22.736	
-7.4	22.877	22.692	
-6.3	22.895	22.632	
-5.2	22.911	22.582	
-4.1	22.912	22.432	
-3.0	22.917	22.472	
0	22.967	22.593	22.56
1.0	23.016	22.472	
2.0	23.027	22.582	
3.0	23.038	22.632	
4.0	23.067	22.692	
5.0	23.064	22.716	
6.0	23.07	22.736	
7.4	23.07	22.736	
8.5	23.07	22.736	

ROAD C30



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C

Plotted: 4 September 2020 4:00:06 PM File Name: J:\9895D\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\9895-11-CC4201.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
B					04/09/20
A					22/05/20

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.

NEW PARK PRECINCT 6C CROSS SECTIONS

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-11-CC4201

PROJECT No: 9985-11
 SHEET No: CC4201

Plans are referenced in certificate number
200076/01 issued by:
Registered Certifier: Peter Shahatt
Registration Reference: BDC3022
BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
Subdivision Certifiers Pty Ltd
Date: 09/09/20

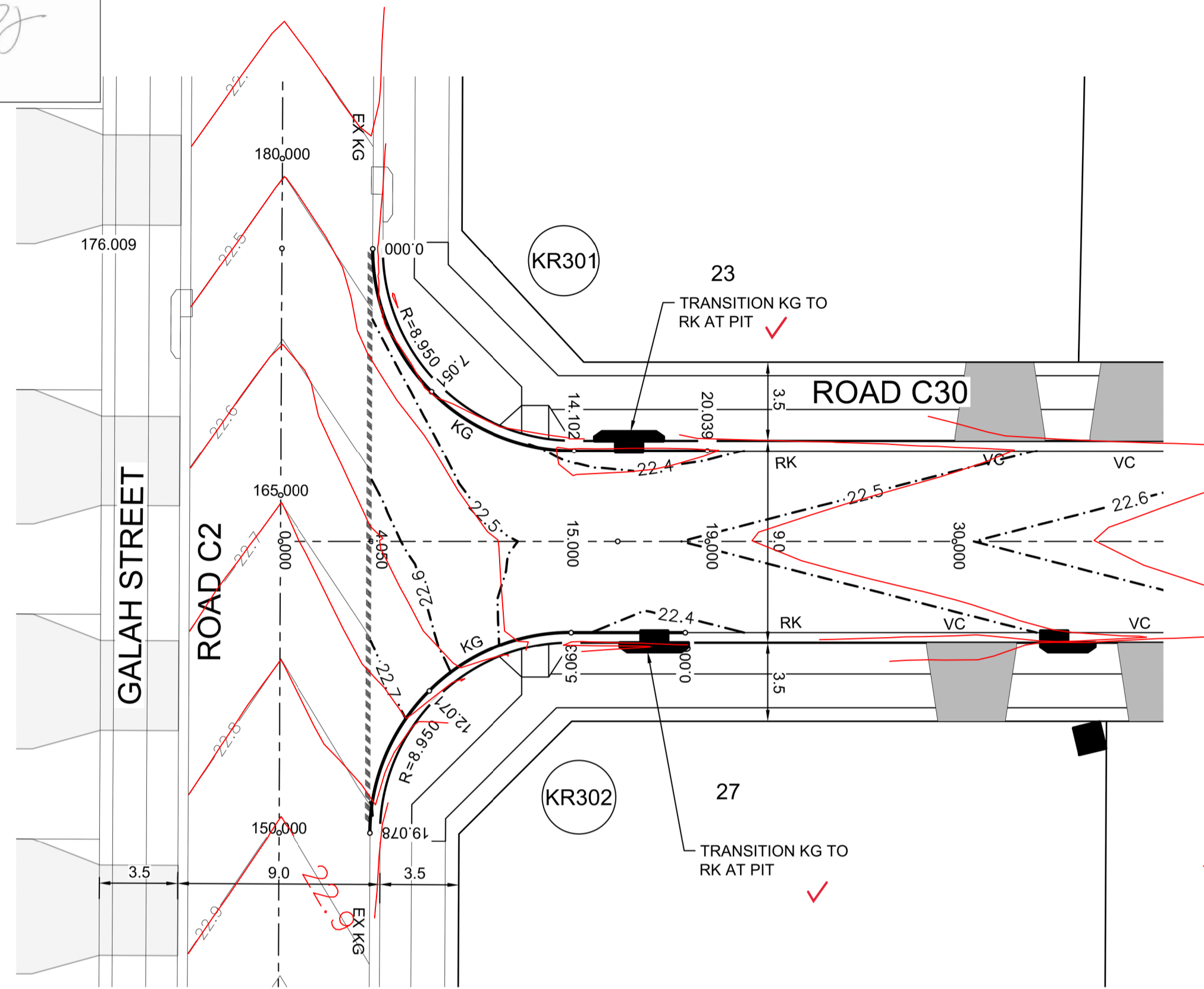


PS

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this plan have been constructed generally in
accordance with the plans and specifications
approved by Blacktown City Council

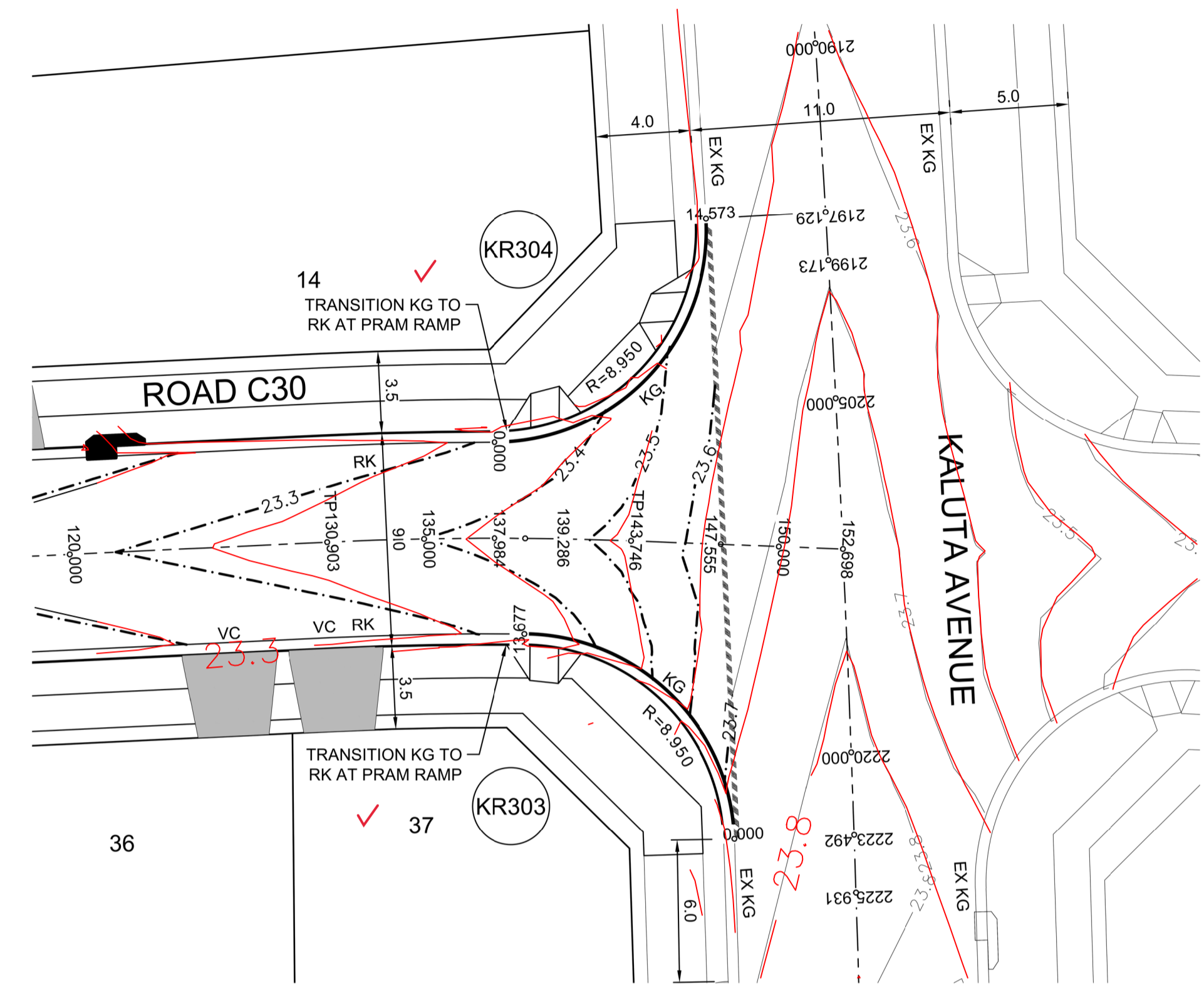
Signature.....
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C



PLAN
SCALE 1:200

DESIGN LEVELS, RADII AND
SETOUT ARE TO LIP OF GUTTER



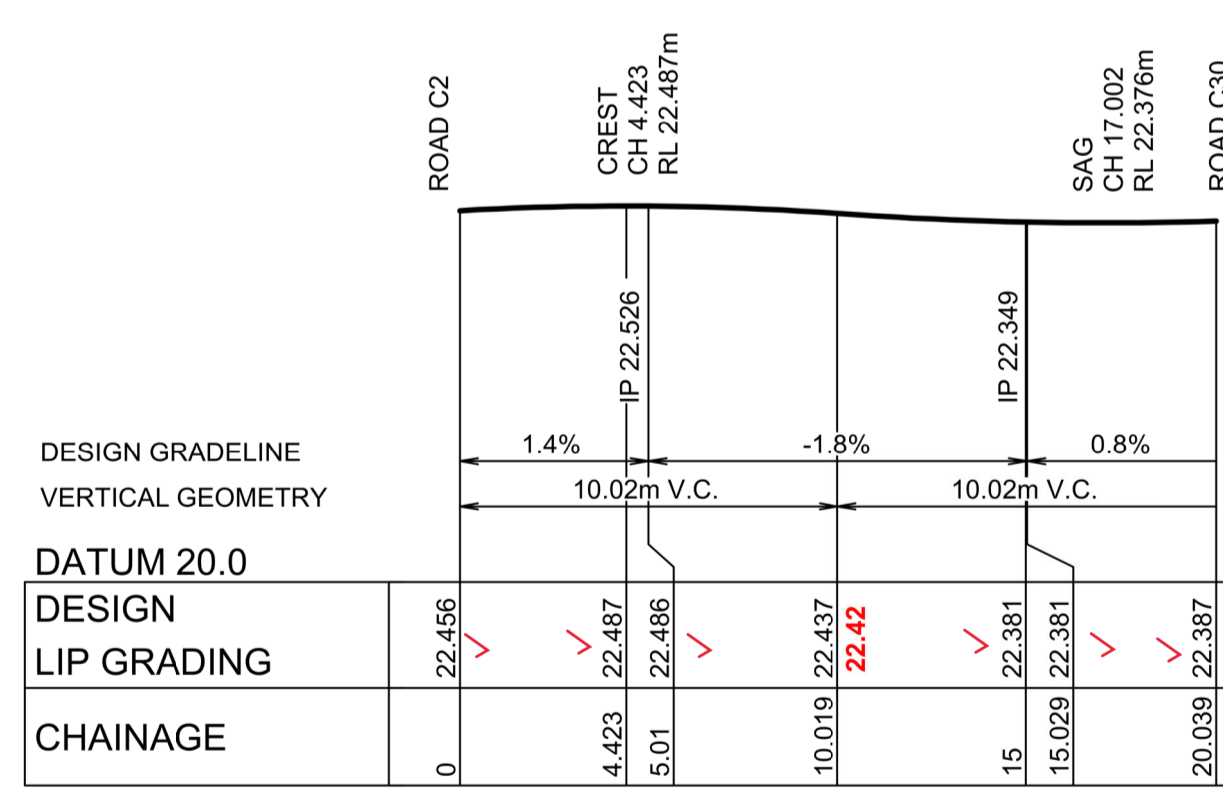
PLAN
SCALE 1:200

KR301					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296395.47	6268881.26	153°23'51.68"	-8.95	14.1
7.05	296399.49	6268873.22			
14.1	296407.52	6268877.29	63°07'07.59"		
20.04	296412.81	6268879.97	63°07'07.59"		

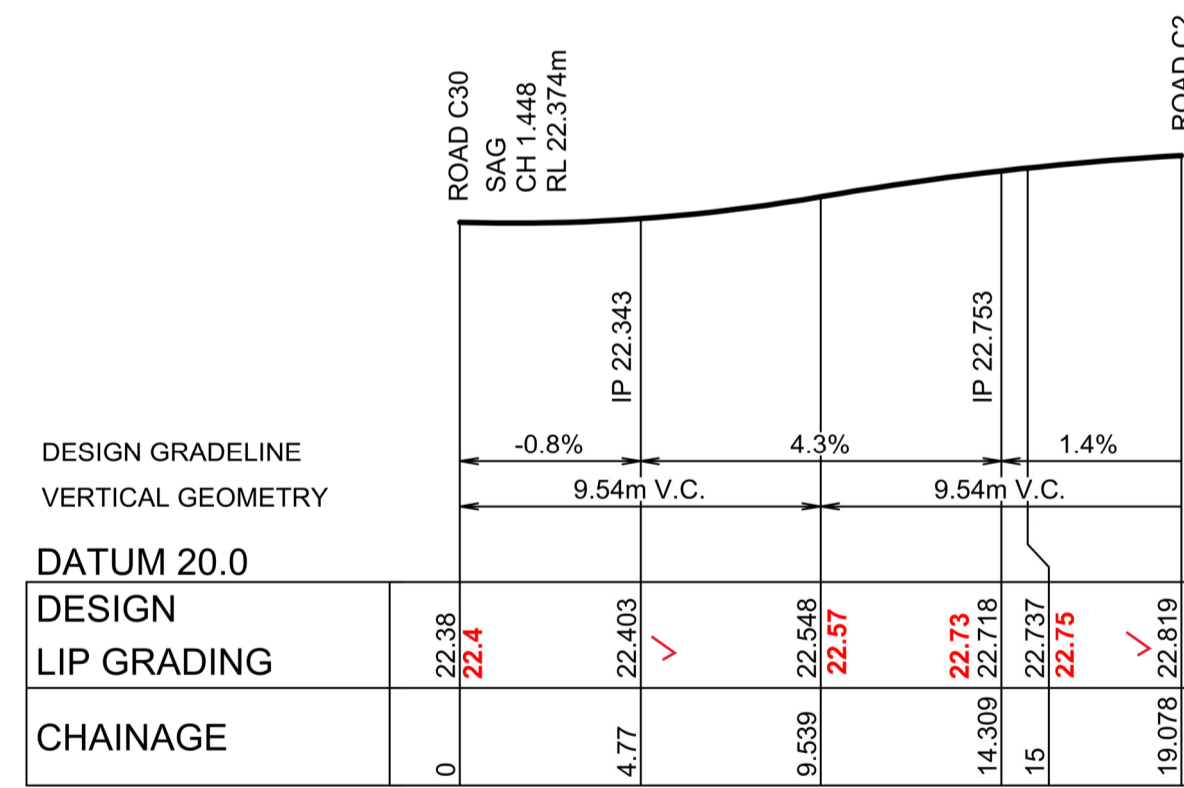
KR302					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296415.58	6268872.29	243°07'07.59"		
5.06	296411.07	6268870	243°07'07.59"		
12.07	296403.12	6268865.98		-8.95	14.02
19.08	296407.11	6268858.01	153°23'51.68"		

KR304					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296524.02	6268923.69	77°19'06.39"		
7.29	296533.27	6268925.78		-8.95	14.57
14.57	296530.66	6268934.89	344°01'33.65"		

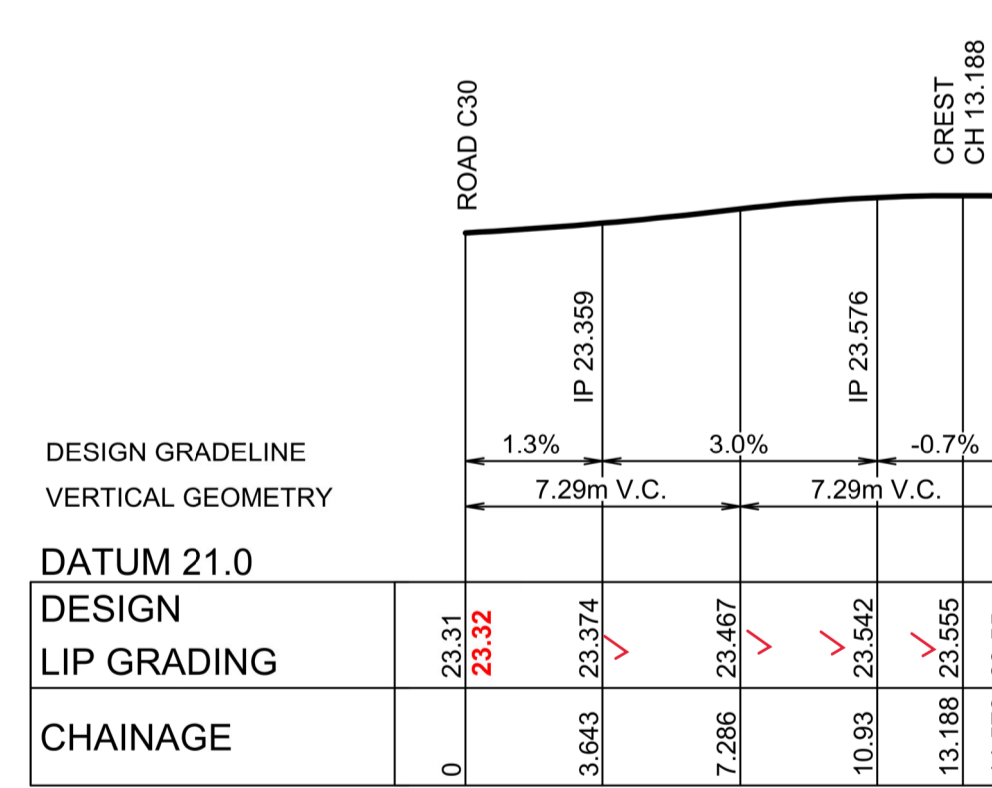
KR303					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296537.59	6268909.58	345°22'28.69"		
6.84	296535.42	6268917.88		-8.95	13.68
13.68	296527.04	6268916.07	257°48'56.74"		



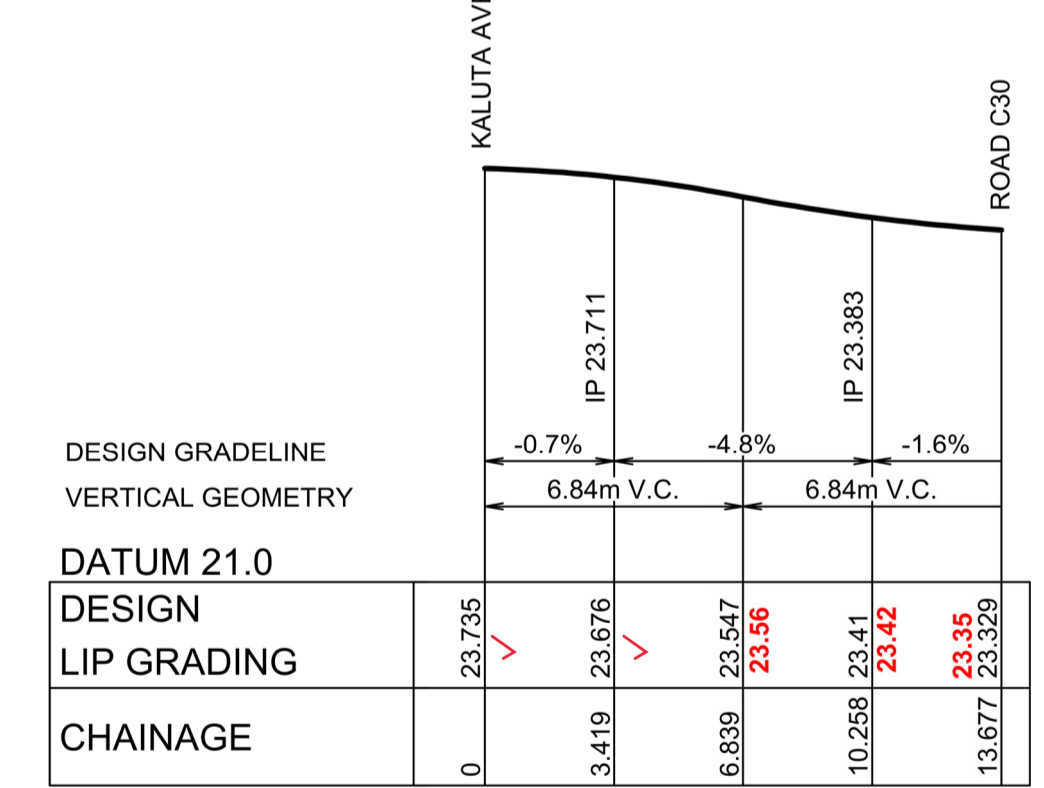
KR301
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KR302
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KR304
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

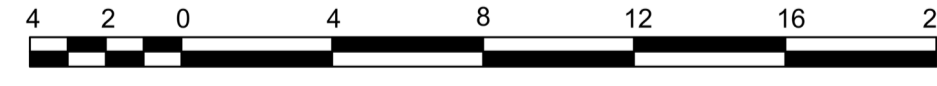


KR303
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

1:50 (AT A1)
1:100 (AT A3)



1:200 (AT A1)
1:400 (AT A3)



Plotfile: 4 September, 2020 4:00:48 PM File Name: J:\9895DCCC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6C\9895-11-CC4301.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
B					04/09/20
A					22/05/20

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



STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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NEW PARK PRECINCT 6C
KERB RETURN PLAN

PROJECT No: **9985-11**
SHEET No: **CC4301**

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-11-CC4301**

B

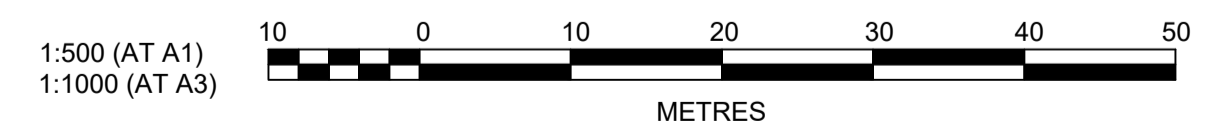
Plans are referenced in certificate number 200076/01 issued by:

Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20

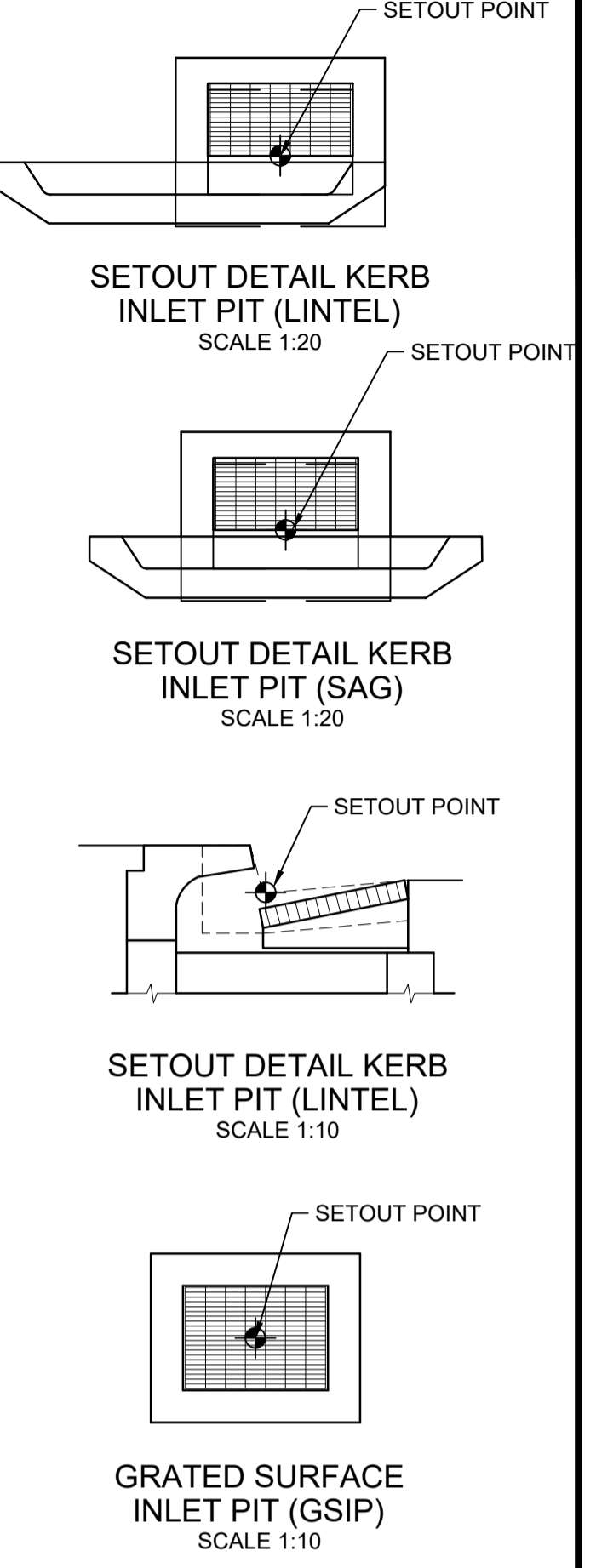


PS

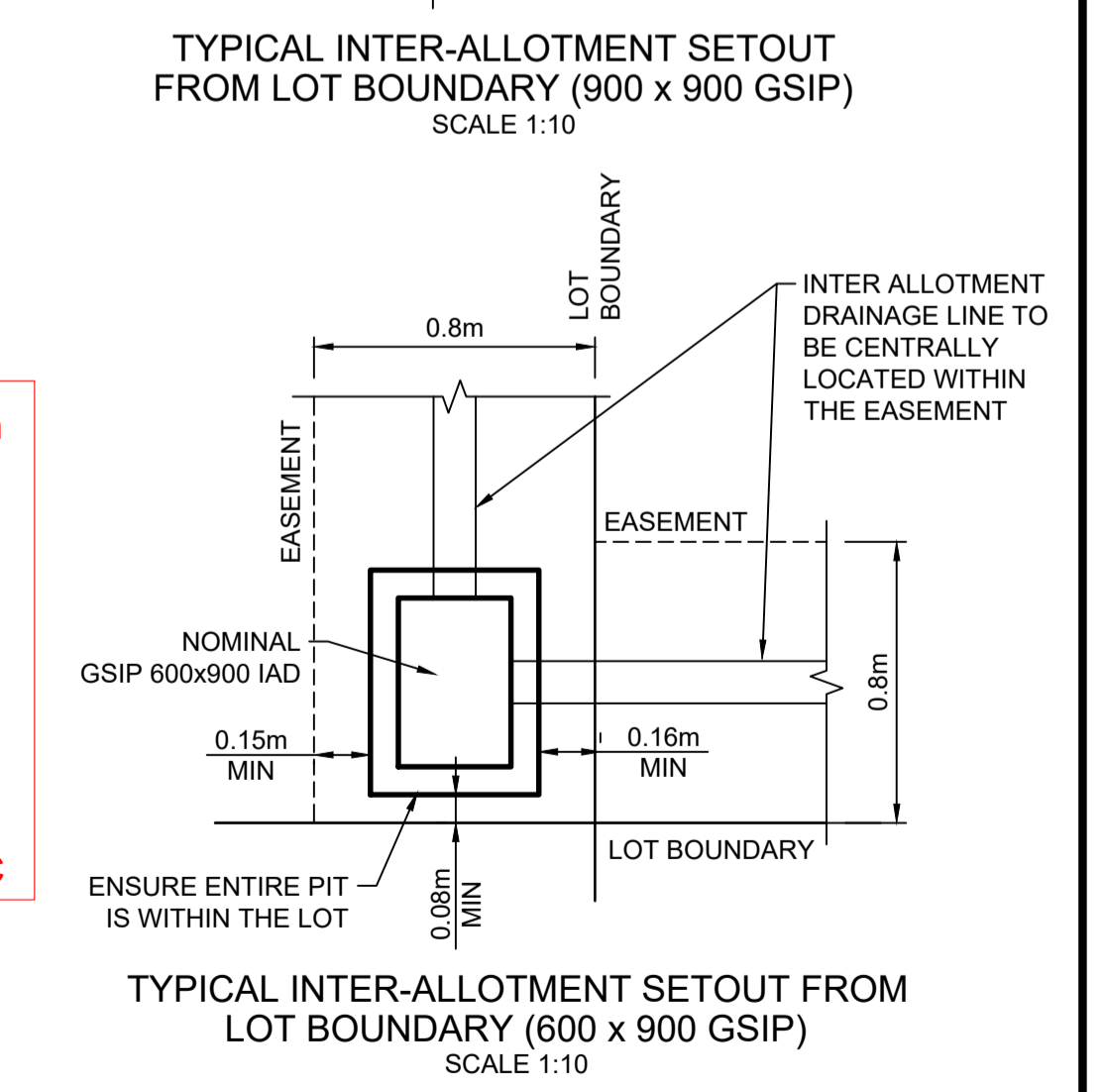
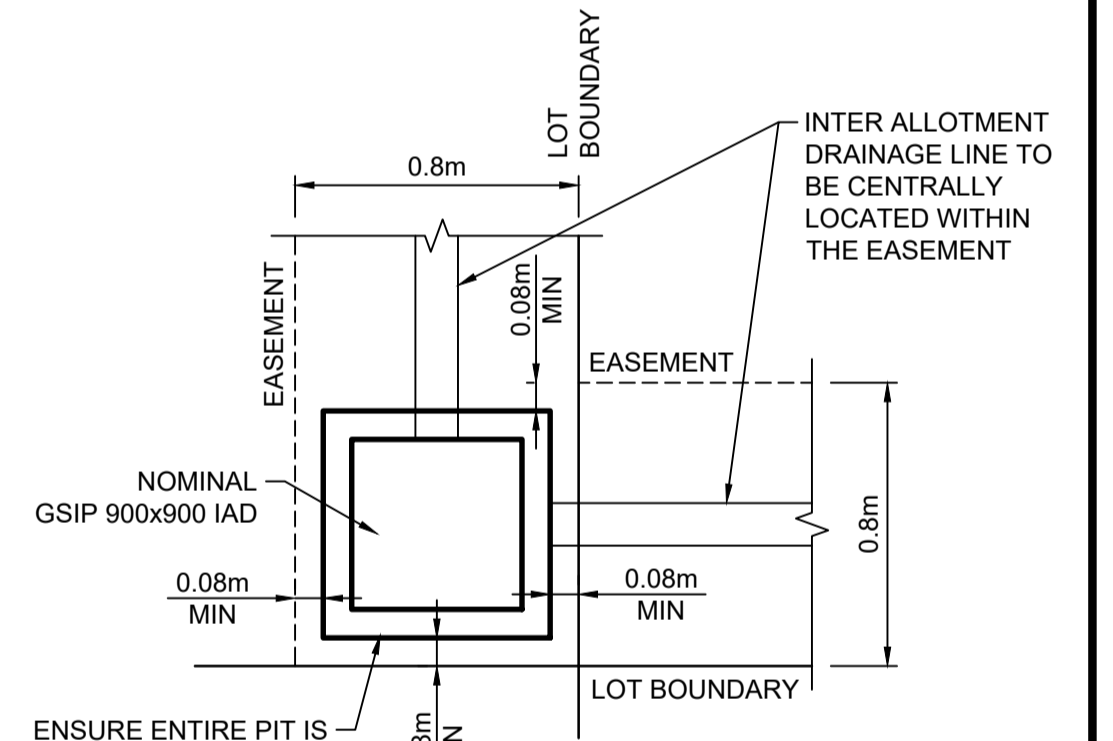
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PIT SCHEDULE					COMMENTS
PIT NAME	PIT TYPE	PIT EASTING (m)	PIT NORTHING (m)	PIT DEPTH (m)	
(-)	(-)	(-)	(-)	(-)	
1/1	1.8 m lintel	296481.26	6268975.92	1.522	
2/1	1.8 m lintel	296507.84	6268919.89	1.375	
2/2	1.8 m lintel	296504.56	6268909.65	1.595	
2/3	1.8 m lintel	296475.05	6268900.72	1.713	
2/4	1.8 m lintel	296458.16	6268893.36	1.802	
2/5	1.8 m lintel	296430.43	6268879.32	1.904	
2/6	2.4 m lintel sag	296414.56	6268871.27	2.001	
2/7	2.4 m lintel sag	296409.49	6268878.79	2.144	
3/1	1.8 m lintel	296460.95	6268904.63	1.332	
A/1	GSP 600x900 IAD			0.755	6cy
A/2	GSP 600x900 IAD			0.804	
A/3	GSP 600x900 IAD			0.852	
A/4	GSP 600x900 IAD			0.939	
A/5	GSP 900x900 IAD			1.579	
B/1	GSP 600x900 IAD			0.756	
B/2	GSP 600x900 IAD			0.789	
B/3	GSP 600x900 IAD			0.832	
B/4	GSP 600x900 SAG			0.879	
B/5	GSP 600x900 IAD			0.93	
B/6	GSP 600x900 IAD			0.977	
B/7	GSP 600x900 IAD			1.024	
B/8	GSP 900x900 IAD			1.073	
B/9	GSP 900x900 IAD			1.152	
B/10	JP 900x900			1.576	
C/1	GSP 600x900 IAD			0.757	
C/2	GSP 600x900 IAD			0.832	
C/3	GSP 600x900 IAD			0.849	
C/4	GSP 600x900 IAD			0.822	
C/5	GSP 600x900 IAD			1.41	
D/1	GSP 600x900 IAD			1.124	
D/2	GSP 900x900 IAD			1.123	
D/3	GSP 900x900 IAD			1.094	
D/4	GSP 900x900 IAD			1.629	
D02/8	1.8 m lintel	296394.51	6268884.17	2.754	
DX1/1	2.4 m lintel	296448.94	6268964.78	1.724	EXISTING PIT REPLAE LINTEL WITH 2.4m LINTEL
DX1/3	1.8 m lintel	296397.79	6268944.45	1.917	
E/1	GSP 600x900 IAD			0.756	
E/2	GSP 600x900 IAD			0.805	
E/3	GSP 600x900 IAD			0.854	
E/4	GSP 600x900 IAD			0.902	
E/5	GSP 600x900 IAD			0.951	
E/6	GSP 600x900 IAD			1.006	
E/7	GSP 900x900 IAD			1.06	



LEGEND	
CATCHMENT BOUNDARY	—
FLOW DIRECTION ARROW	→
EXISTING CONTOURS	— 47.0 —
DESIGN CONTOURS	- - - 47.0 - - -
DRAINAGE LINE & PIT	— [Symbol] —
FUTURE DRAINAGE LINE & PIT	- - - [Symbol] - - -



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C

ISSUE	DESCRIPTION	KM	JM	MP	MS	DATE
B	ISSUE FOR CONSTRUCTION APPROVAL					04/09/20
A	ISSUE FOR TENDER					22/05/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
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CLIENT: **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.

NEW PARK PRECINCT 6C CATCHMENT PLAN

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-11-CC4401

PROJECT No: **9985-11**
 SHEET No: **CC4401**

Plans are referenced in certificate number
200076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20



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 (-)	BYPASS CHANNEL FLOW (L/s)	U/S FLOW WIDTH (m)	U/S VxD (m/s^2)	D/S FLOW WIDTH (m)	D/S VxD (m/s^2)	COMMENTS (-)
1/1	1.8 m lintel		0	5	5	25	14	14	0	79	1	3	DX1/1	41	1.77	0.06	1.83	0.06	
2/1	1.8 m lintel		0	5	5	20	10	10	0	61	0.8	3	3/1	14	1.16	0.03	1.36	0.03	
2/2	1.8 m lintel		0	5	5	25	26	25	1	82	0.8	3	2/3	41	1.89	0.06	1.89	0.06	
2/3	1.8 m lintel	0.109	85	5	5	25	41	36	5	75	0.8	3	2/4	31	1.67	0.05	1.88	0.04	
2/4	1.8 m lintel	0.071	85	5	5	25	31	29	2	82	0.8	3	2/5	41	1.88	0.06	1.88	0.06	
2/5	1.8 m lintel	0.104	85	5	5	25	41	35	5	79	0.8	3	2/6	36	1.8	0.05	1.8	0.05	
2/6	2.4 m lintel sag	0.086	85	5	5	20	36	39	0	48	0.9	2.3	2/7	0					
2/7	2.4 m lintel sag	0.061	95	5	5	20	19	20	0	32	0.4	2.8	D02/8	0					
3/1	1.8 m lintel	0.04	95	5	5	20	14	14	0	66	0.8	3	2/7	19	1.37	0.04	1.37	0.04	
A/1	GSIP 600x900 IAD	0.037	80	5	5	25	14	14	0	0									6cy
A/2	GSIP 600x900 IAD	0.029	80	5	5	25	11	11	0	0									
A/3	GSIP 600x900 IAD	0.029	80	5	5	25	11	11	0	0									
A/4	GSIP 600x900 IAD	0.03	80	5	5	25	11	11	0	0									
A/5	GSIP 900x900 IAD	0.036	80	5	5	25	14	14	0	0									
B/1	GSIP 600x900 IAD	0.027	80	5	5	25	10	10	0	0									
B/2	GSIP 600x900 IAD	0.027	80	5	5	25	10	10	0	0									
B/3	GSIP 600x900 IAD	0.029	80	5	5	25	11	11	0	0									
B/4	GSIP 600x900 SAG	0.028	80	5	5	25	11	11	0	0									
B/5	GSIP 600x900 IAD	0.026	80	5	5	25	10	10	0	0									
B/6	GSIP 600x900 IAD	0.027	80	5	5	20	10	10	0	0									
B/7	GSIP 600x900 IAD	0.027	80	5	5	20	10	10	0	0									
B/8	GSIP 900x900 IAD	0.031	80	5	5	20	11	11	0	0									
B/9	GSIP 900x900 IAD		0	5	5		0	0	0	0									
B/10	JP		0	5	5		0	0	0	0									
C/1	GSIP 600x900 IAD	0.048	80	5	5	25	18	18	0	0									
C/2	GSIP 600x900 IAD	0.026	80	5	5	25	10	10	0	0									
C/3	GSIP 600x900 IAD	0.026	80	5	5	25	10	10	0	0									
C/4	GSIP 600x900 IAD	0.026	80	5	5	25	10	10	0	0									
C/5	GSIP 600x900 IAD	0.025	80	5	5	20	9	9	0	0									
D/1	GSIP 600x900 IAD	0.045	80	5	5	25	17	17	0	0									
D/2	GSIP 900x900 IAD	0.026	80	5	5	25	10	10	0	0									
D/3	GSIP 900x900 IAD	0.026	80	5	5	25	10	10	0	0									
D/4	GSIP 900x900 IAD		0	5	5		0	0	0	0									
D02/1	1.8 m lintel		0	5	5	20	16	16	0	57	0.7	3	D19/1	11	1.02	0.03	1.07	0.03	
D02/2	1.8 m lintel		0	5	5	20	18	18	0	56	0.7	3	D02/3	11	1	0.03	1.04	0.03	
D02/3	1.8 m lintel	0.03	95	5	5	20	11	11	0	57	0.7	3	D02/4	11	1.04	0.03	1.04	0.03	
D02/4	2.4 m lintel sag	0.052	95	5	5	20	19	22	0	34	0.8	2.4	D02/5	0					
D02/5	2.4 m lintel sag	0.043	95	5	5	20	12	14	0	25	0.7	3	D02/6	0					
D02/6	1.8 m lintel	0.005	95	5	5	20	0	0	0	43	1.4	3	D02/7	7	0.56	0.03	0.56	0.03	
D02/7	1.8 m lintel	0.02	95	5	5	20	7	7	0	21	1.4	3	D02/8	1	0.23	0.01	1.63		
D02/8	1.8 m lintel	0.005	95	5	5	25	1	1	0	76	1.4	3	D02/9	42	1.66	0.07	1.66	0.07	
D02/9	1.8 m lintel	0.114	85	5	5	20	42	39	4	35	1.4	3	D02/10	5	0.41	0.02	0.89	0.01	
D02/10	1.8 m lintel	0.006	95	5	5	25	5	5	0	53	1.4	3	D02/11	11	0.89	0.03	0.89	0.03	
D02/11	1.8 m lintel	0.03	95	5	5	20	11	11	0	52	0.7	3	D02/12	9	0.89	0.03	0.98	0.02	
D12/1	2.4 m lintel	0.129	85	5	5	25	53	50	3	81	1.4	3	D25/1	53	1.86	0.08	1.86	0.08	
D13/1	2.4 m lintel	0.139	85	5	5	25	58	52	6	86	1.4	3	D15/1	58	2.03	0.08	2.08	0.07	
D15/1	2.4 m lintel	0.142	85	5	5	25	58	53	5	88	0.7	3	D18/1	49	2.08	0.06	2.08	0.06	
D16/1	2.4 m lintel	0.148	85	5	5	25	59	52	7	83	1.4	3	D13/1	58	1.93	0.08	2.02	0.08	
D19/1	1.8 m lintel	0.031	95	5	5	20	11	11	0	58	0.7	3	D02/5	12	1.07	0.03	1.07	0.03	
D20/1	2.4 m lintel	0.133	85	5	5	25	52	47	4	84	1.4	3	D16/1	59	1.95	0.08	1.95	0.08	
D25/1	2.4 m lintel	0.138	85	5	5	25	53	51	3	80	1.4	3	D20/1	52	1.83	0.07	1.94	0.07	
DX1/1	2.4 m lintel	0.11	85	5	5	25	41	40	1	80	1	3	DX1/2	44	1.83	0.06	1.83	0.06	EXISTING PIT REPLAE LINTEL WITH 2.4m LINTEL
DX1/2	1.8 m lintel	0.116	95	5	5	25	44	37	7	76	1	3	DX1/3	37	1.68	0.06	1.84	0.05	
DX1/3	1.8 m lintel	0.081	95	5	5	25	37	33	4	80	1	3	DX1/4	44	1.84	0.06	1.84	0.06	
DX1/4	2.4 m lintel sag	0.109	85	5	5	20	44	48	0	54	1	3	DX1/5	0					
DX1/5	2.4 m lintel sag	0.061	95	5	5	20	20	21	0	33	0.3	3	D02/10	0					
DX2/1	1.8 m lintel		0	5	5	20	37	34	2	64	1	3	DX1/5	20	1.3	0.04	1.3	0.04	
E/1	GSIP 600x900 IAD	0.027	80	5	5	20	10	10	0	0									
E/2	GSIP 600x900 IAD	0.026	80	5	5	25	10	10	0	0									
E/3	GSIP 600x900 IAD	0.025	80	5	5	20	9	9	0	0									
E/4	GSIP 600x900 IAD	0.024	80	5	5	20	9	9	0	0									
E/5	GSIP 600x900 IAD	0.024	80	5	5	25	9	9	0	0									
E/6	GSIP 600x900 IAD	0.028	80	5	5	25	11	11	0	0									
E/7	GSIP 900x900 IAD	0.028	80	5	5	20	10	10	0	0									

Plotted: 4 September 2020 4:01:30 PM File Name: J:\9898ED\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\0988-11-CC4411.dwg

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

 Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

 DATE 08/12/2020 REF 20260-6C

B	ISSUE FOR CONSTRUCTION APPROVAL	KM	JM	MP	MS	04/09/20
A	ISSUE FOR TENDER	KM	VS	MP	MS	22/05/20
	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: **WINTOP PROPERTY GROUP**

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

NEW PARK PRECINCT 6C
 STORMWATER CALCULATIONS TABLES SHEET 1

PROJECT No: **9985-11**
 SHEET No: **CC4411**
 PLAN No: **9985-11-CC4411**

B

Plans are referenced in certificate number

200076/01 issued by:
Registered Certifier: Peter Shahatt
Registration Reference: BDC3022
BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
Subdivision Certifiers Pty Ltd
Date: 09/09/20



DESIGN STORM 10%AEP HYDRAULIC RESULTS

Table with columns: PIPE NAME, PIPE DIAMETER, PIPE TYPE, PIPE LENGTH, PIPE GRADE, CRITICAL STORM, PEAK FLOW, CAPACITY RATIO, PEAK VELOCITY, PIPE U/S IL, PIPE D/S IL, PIPE D/S DROP, U/S PIT, D/S PIT, PIT LOSS, WSE LOSS, U/S PIPE HGL, D/S PIPE HGL, HGL GRADE, MINIMUM COVER, MINIMUM FREEBOARD, COMMENTS

Plotted: 4 September 2020 4:01:53 PM File Name: J:\985ED\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\985-11-CC4412.dwg

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council
Signature: PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 08/12/2020 REF 20260-6C

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS



ISSUE FOR CONSTRUCTION APPROVAL
STATUS: ISSUE FOR CONSTRUCTION APPROVAL

NEW PARK PRECINCT 6C
STORMWATER CALCULATIONS TABLES SHEET 2

PROJECT No: 9985-11
SHEET No: CC4412

Table with columns: B, A, AMENDMENT, DES, DRN, CKD, APR, DATE

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

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-11-CC4412

Plans are referenced in certificate number
200076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20



DESIGN STORM 5% AEP HYDROLOGIC RESULTS

PIT NAME (-)	PIT TYPE (-)	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (min)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	COMMENTS (-)
A/1	GSIP 600x900 IAD	0.037	80	5	5	25	16	16	0	0	
A/2	GSIP 600x900 IAD	0.029	80	5	5	25	13	13	0	0	
A/3	GSIP 600x900 IAD	0.029	80	5	5	25	13	13	0	0	
A/4	GSIP 600x900 IAD	0.03	80	5	5	25	13	13	0	0	
A/5	GSIP 900x900 IAD	0.036	80	5	5	25	16	16	0	0	
B/1	GSIP 600x900 IAD	0.027	80	5	5	25	12	12	0	0	
B/2	GSIP 600x900 IAD	0.027	80	5	5	25	12	12	0	0	
B/3	GSIP 600x900 IAD	0.029	80	5	5	25	13	13	0	0	
B/4	GSIP 600x900 SAG	0.028	80	5	5	20	12	12	0	0	
B/5	GSIP 600x900 IAD	0.026	80	5	5	20	11	11	0	0	
B/6	GSIP 600x900 IAD	0.027	80	5	5	25	12	12	0	0	
B/7	GSIP 600x900 IAD	0.027	80	5	5	25	12	12	0	0	
B/8	GSIP 900x900 IAD	0.031	80	5	5	20	13	13	0	0	
B/9	GSIP 900x900 IAD	0	0	5	5	0	0	0	0	0	
B/10	JP	0	0	5	5	0	0	0	0	0	
C/1	GSIP 600x900 IAD	0.048	80	5	5	25	21	21	0	0	
C/2	GSIP 600x900 IAD	0.026	80	5	5	20	11	11	0	0	
C/3	GSIP 600x900 IAD	0.026	80	5	5	20	11	11	0	0	
C/4	GSIP 600x900 IAD	0.026	80	5	5	20	11	11	0	0	
C/5	GSIP 600x900 IAD	0.025	80	5	5	25	11	11	0	0	
D/1	GSIP 600x900 IAD	0.045	80	5	5	25	20	20	0	0	
D/2	GSIP 900x900 IAD	0.026	80	5	5	20	11	11	0	0	
D/3	GSIP 900x900 IAD	0.026	80	5	5	20	11	11	0	0	
D/4	GSIP 900x900 IAD	0	0	5	5	0	0	0	0	0	
E/1	GSIP 600x900 IAD	0.027	80	5	5	25	12	12	0	0	
E/2	GSIP 600x900 IAD	0.026	80	5	5	20	11	11	0	0	
E/3	GSIP 600x900 IAD	0.025	80	5	5	25	11	11	0	0	
E/4	GSIP 600x900 IAD	0.024	80	5	5	25	11	11	0	0	
E/5	GSIP 600x900 IAD	0.024	80	5	5	20	10	10	0	0	
E/6	GSIP 600x900 IAD	0.028	80	5	5	20	12	12	0	0	
E/7	GSIP 900x900 IAD	0.028	80	5	5	20	12	12	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.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
A/1 to A/2	150	uPVC	10	1	20	15	0.78	0.87	22.767	22.667	0.03	9.7	9.7	0.15	0.15	23.199	23.022	1.77	0.6	0.324	6cy
A/2 to A/3	150	uPVC	10	1	25	28	1.4	1.58	22.637	22.537	0.03	1.38	1.38	0.15	0.15	23.022	22.679	3.43	0.65	0.42	
A/3 to A/4	225	uPVC	10	1	20	41	0.71	1.49	22.507	22.407	0.063	9.61	9.61	0.1	0.1	22.656	22.608	0.48	0.62	0.704	
A/4 to A/5	225	uPVC	12.13	1.4	25	53	0.76	1.5	22.345	22.175	0.872	9.7	9.7	0.14	0.14	22.608	22.322	2.36	0.61	0.675	
A/5 to 1/1	375	RRJ2	4.57	2	25	68	0.25	1.27	21.303	21.211	0.223	2.2	3.11	0.18	0.26	21.54	21.34	4.38	1.08	1.342	
B/1 to B/2	150	uPVC	10	1	25	11	0.55	0.63	22.548	22.448	0.03	4.5	4.5	0.09	0.09	22.989	22.883	1.06	0.6	0.315	
B/2 to B/3	150	uPVC	11	1	25	22	1.09	1.22	22.418	22.308	0.046	9.7	9.7	0.13	0.13	22.883	22.669	1.95	0.63	0.323	
B/3 to B/4	225	uPVC	9.79	1	20	38	0.64	1.28	22.263	22.165	0.05	9.7	9.7	0.11	0.11	22.669	22.625	0.45	0.6	0.425	
B/4 to B/5	225	uPVC	12.19	1	25	44	0.76	1.11	22.115	21.993	0.03	9.7	9.7	0.1	0.1	22.625	22.494	1.07	0.65	0.369	
B/5 to B/6	225	uPVC	10	1	25	55	0.94	1.37	21.963	21.863	0.03	9.7	9.7	0.09	0.09	22.494	22.335	1.59	0.7	0.399	
B/6 to B/7	225	uPVC	10	1	25	65	1.12	1.64	21.833	21.733	0.03	9.7	9.7	0.1	0.1	22.335	22.116	2.19	0.75	0.475	
B/7 to B/8	225	uPVC	11	1	25	76	1.3	1.92	21.703	21.593	0.03	0.87	0.87	0.13	0.13	22.116	21.805	2.83	0.79	0.611	
B/8 to B/9	300	uPVC	1.5	1	25	97	0.77	1.84	21.563	21.548	0.076	9.7	9.7	0.05	0.05	21.802	21.785	1.13	0.77	0.834	
B/9 to B/10	300	uPVC	29.04	1	25	90	0.71	1.49	21.471	21.181	0.792	2.09	2.66	0.23	0.29	21.785	21.368	1.44	0.61	0.838	
B/10 to DX1/3	375	RRJ2	4.38	2.4	25	94	0.32	1.4	20.388	20.283	0.601	2.09	2.71	0.21	0.27	20.869	20.807	1.41	1.1	1.095	
C/1 to C/2	150	uPVC	9	1	25	20	1.02	1.18	23.139	23.049	0.073	4.5	4.5	0.32	0.32	23.58	23.179	4.46	0.6	0.316	
C/2 to C/3	225	uPVC	9	1.16	20	32	0.51	1.37	22.976	22.872	0.03	9.7	9.7	0.1	0.1	23.093	23.087	0.07	0.6	0.714	
C/3 to C/4	225	uPVC	9	1.48	25	42	0.59	1.14	22.842	22.709	-0.01	9.7	9.7	0.09	0.09	23.087	22.97	1.3	0.6	0.604	
C/4 to C/5	225	uPVC	17.65	1.2	25	52	0.81	1.47	22.719	22.507	0.64	9.7	9.7	0.14	0.14	22.97	22.662	1.75	0.5	0.561	
C/5 to 2/2	375	RRJ2	4.25	2.5	20	61	0.2	1.29	21.867	21.761	0.266	2.18	3.14	0.19	0.27	22.531	22.516	0.35	1.11	0.746	
D/1 to D/2	150	uPVC	8.04	1.2	25	18	0.84	1.04	22.212	22.116	0.03	4.5	4.5	0.25	0.25	22.803	22.512	3.62	0.95	0.533	
D/2 to D/3	300	uPVC	10.01	1	25	102	0.81	1.46	22.086	21.985	0.03	1.47	1.78	0.15	0.17	22.512	22.367	1.45	0.77	0.696	
D/3 to D/4	300	uPVC	15.92	1	25	116	0.92	1.69	21.955	21.796	0.639	9.7	9.7	0.1	0.1	22.367	22.247	0.75	0.7	0.683	
D/4 to 2/5	375	RRJ2	4.53	2.3	25	105	0.36	1.35	21.157	21.053	0.491	2.09	2.71	0.19	0.25	22.247	22.183	1.41	1.2	0.539	
E/1 to E/2	150	uPVC	9.04	1	25	11	0.54	0.61	22.937	22.846	0.03	4.5	4.5	0.09	0.09	23.389	23.285	1.15	0.6	0.303	
E/2 to E/3	150	uPVC	9.04	1	25	21	1.06	1.19	22.816	22.726	0.03	9.58	9.58	0.12	0.12	23.285	23.102	2.02	0.65	0.336	
E/3 to E/4	225	uPVC	9.04	1	20	34	0.58	1.14	22.696	22.605	0.03	9.7	9.7	0.09	0.09	23.102	23.072	0.33	0.62	0.448	
E/4 to E/5	225	uPVC	9.04	1	25	41	0.7	1.08	22.575	22.485	0.03	9.7	9.7	0.09	0.09	23.072	22.981	1.01	0.67	0.406	
E/5 to E/6	225	uPVC	12.22	1	25	50	0.86	1.26	22.455	22.333	0.03	9.7	9.7	0.1	0.1	22.981	22.835	1.19	0.72	0.424	
E/6 to E/7	225	uPVC	12.21	1	25	61	1.05	1.54	22.303	22.181	0.03	9.7	9.7	0.11	0.11	22.835	22.621	1.75	0.77	0.473	
E/7 to D/2	225	uPVC	1.51	1	25	73	1.24	1.83	22.151	22.136	0.05	0.79	0.79	0.11	0.11	22.621	22.512	7.2	0.83	0.589	

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature: PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C

Plotfile: 4 September 2020 4:02:06 PM File Name: J:\9898ED\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\CC4413.dwg

B	ISSUE FOR CONSTRUCTION APPROVAL	KM	JM	MP	MS	04/09/20
A	ISSUE FOR TENDER	KM	VS	MP	MS	22/05/20
	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:

WINTOP PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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

NEW PARK PRECINCT 6C
 STORMWATER CALCULATIONS TABLES SHEET 3

PROJECT No: **9985-11**
 SHEET No: **CC4413**

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-11-CC4413**

B

Plans are referenced in certificate number
200076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20



PS

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 (-)	BYPASS CHANNEL FLOW (L/s)	U/S FLOW WIDTH (m)	U/S VxD (m/s^2)	D/S FLOW WIDTH (m)	D/S VxD (m/s^2)	COMMENTS (-)
1/1	1.8 m lintel		0	5	5	5	21	16	4	89	1	3	DX1/1	62	2.12	0.08	2.31	0.07	
2/1	1.8 m lintel		0	5	5	5	14	11	3	70	0.8	3	3/1	23	1.47	0.04	1.69	0.04	
2/2	1.8 m lintel		0	5	5	5	37	26	11	94	0.8	3	2/3	67	2.32	0.07	2.32	0.07	
2/3	1.8 m lintel	0.109	85	5	5	5	67	42	25	92	0.8	3	2/4	62	2.23	0.07	2.53	0.06	
2/4	1.8 m lintel	0.071	85	5	5	5	62	39	22	101	0.8	3	2/5	83	2.54	0.08	3.79	0.08	
2/5	1.8 m lintel	0.104	85	5	5	5	83	44	197	138	0.8	3	2/6	226	3.79	0.14	5.25	0.11	
2/6	2.4 m lintel sag	0.086	85	5	5	5	226	175	31	174	0.9	2.3	2/7	43					
2/7	2.4 m lintel sag	0.061	95	5	5	5	63	58	0	88	0.4	2.8	D02/8	0	0.09		1.94		
3/1	1.8 m lintel	0.04	95	5	5	5	23	18	5	76	0.8	3	2/7	31	1.69	0.05	2.09	0.05	
A/1	GSIP 600x900 IAD	0.037	80	5	5	5	20	20	0	0									6cy
A/2	GSIP 600x900 IAD	0.029	80	5	5	5	16	16	0	0									
A/3	GSIP 600x900 IAD	0.029	80	5	5	5	16	16	0	0									
A/4	GSIP 600x900 IAD	0.03	80	5	5	5	16	16	0	0									
A/5	GSIP 900x900 IAD	0.036	80	5	5	5	20	20	0	0									
B/1	GSIP 600x900 IAD	0.027	80	5	5	5	14	14	0	0									
B/2	GSIP 600x900 IAD	0.027	80	5	5	5	14	14	0	0									
B/3	GSIP 600x900 IAD	0.029	80	5	5	5	16	16	0	0									
B/4	GSIP 600x900 SAG	0.028	80	5	5	5	15	15	0	0									
B/5	GSIP 600x900 IAD	0.026	80	5	5	5	14	14	0	0									
B/6	GSIP 600x900 IAD	0.027	80	5	5	5	15	15	0	0									
B/7	GSIP 600x900 IAD	0.027	80	5	5	5	15	15	0	0									
B/8	GSIP 900x900 IAD	0.031	80	5	5	5	16	16	0	0									
B/9	GSIP 900x900 IAD		0	5	5	5	0	0	0	0									
B/10	JP		0	5	5	5	0	0	0	0									
C/1	GSIP 600x900 IAD	0.048	80	5	5	5	26	26	0	0									
C/2	GSIP 600x900 IAD	0.026	80	5	5	5	14	14	0	0									
C/3	GSIP 600x900 IAD	0.026	80	5	5	5	14	14	0	0									
C/4	GSIP 600x900 IAD	0.026	80	5	5	5	14	14	0	0									
C/5	GSIP 600x900 IAD	0.025	80	5	5	5	13	13	0	0									
D/1	GSIP 600x900 IAD	0.045	80	5	5	5	24	24	0	0									
D/2	GSIP 900x900 IAD	0.026	80	5	5	5	14	14	0	0									
D/3	GSIP 900x900 IAD	0.026	80	5	5	5	14	14	0	0									
D/4	GSIP 900x900 IAD		0	5	5	5	0	0	0	0									
D02/1	1.8 m lintel		0	5	5	5	22	18	5	68	0.7	3	D19/1	20	1.43	0.04	1.43	0.04	
D02/2	1.8 m lintel		0	5	5	5	26	20	6	68	0.7	3	D02/3	21	1.41	0.04	1.41	0.04	
D02/3	1.8 m lintel	0.03	95	5	5	5	21	17	4	68	0.7	3	D02/4	20	1.4	0.04	1.41	0.04	
D02/4	2.4 m lintel sag	0.052	95	5	5	5	34	37	0	68	0.8	2.4	D02/5	0					
D02/5	2.4 m lintel sag	0.043	95	5	5	5	21	23	0	53	0.7	3	D02/6	0					
D02/6	1.8 m lintel	0.005	95	5	5	5	0	0	0	49	1.4	3	D02/7	11	0.82	0.03	0.82	0.03	
D02/7	1.8 m lintel	0.02	95	5	5	5	11	8	2	32	1.4	3	D02/8	4	0.37	0.02	1.9	0.01	
D02/8	1.8 m lintel	0.005	95	5	5	5	4	3	1	84	1.4	3	D02/9	60	1.95	0.08	1.95	0.08	
D02/9	1.8 m lintel	0.114	85	5	5	5	60	41	19	61	1.4	3	D02/10	21	1.18	0.05	1.23	0.05	
D02/10	1.8 m lintel	0.006	95	5	5	5	21	16	4	63	1.4	3	D02/11	19	1.23	0.04	1.23	0.04	
D02/11	1.8 m lintel	0.03	95	5	5	5	19	15	4	63	0.7	3	D02/12	15	1.22	0.03	1.31	0.03	
D12/1	2.4 m lintel	0.129	85	5	5	5	103	68	35	99	1.4	3	D25/1	106	2.48	0.11	2.48	0.11	
D13/1	2.4 m lintel	0.139	85	5	5	5	121	70	52	107	1.4	3	D15/1	124	2.75	0.11	2.9	0.11	
D15/1	2.4 m lintel	0.142	85	5	5	5	124	74	50	112	0.7	3	D18/1	112	2.9	0.1	2.9	0.1	
D16/1	2.4 m lintel	0.148	85	5	5	5	118	68	50	103	1.4	3	D13/1	121	2.61	0.12	2.75	0.11	
D19/1	1.8 m lintel	0.031	95	5	5	5	20	16	4	69	0.7	3	D02/5	21	1.43	0.04	1.43	0.04	
D20/1	2.4 m lintel	0.133	85	5	5	5	105	63	42	103	1.4	3	D16/1	118	2.6	0.12	2.6	0.12	
D25/1	2.4 m lintel	0.138	85	5	5	5	106	69	37	99	1.4	3	D20/1	105	2.47	0.11	2.59	0.1	
DX1/1	2.4 m lintel	0.11	85	5	5	5	62	46	16	94	1	3	DX1/2	77	2.31	0.09	2.31	0.09	EXISTING PIT REPLAE LINTEL WITH 2.4m LINTEL
DX1/2	1.8 m lintel	0.116	95	5	5	5	77	45	32	93	1	3	DX1/3	73	2.26	0.08	2.42	0.08	
DX1/3	1.8 m lintel	0.081	95	5	5	5	73	44	30	98	1	3	DX1/4	86	2.43	0.09	3.05	0.08	
DX1/4	2.4 m lintel sag	0.109	85	5	5	5	86	90	0	116	1	3	DX1/5	0					
DX1/5	2.4 m lintel sag	0.061	95	5	5	5	38	74	0	116	0.3	3	D02/10	0					
DX2/1	1.8 m lintel		0	5	5	5	51	36	14	77	1	3	DX1/5	38	1.73	0.06	3.04	0.06	
E/1	GSIP 600x900 IAD	0.027	80	5	5	5	15	15	0	0									
E/2	GSIP 600x900 IAD	0.026	80	5	5	5	14	14	0	0									
E/3	GSIP 600x900 IAD	0.025	80	5	5	5	13	13	0	0									
E/4	GSIP 600x900 IAD	0.024	80	5	5	5	13	13	0	0									
E/5	GSIP 600x900 IAD	0.024	80	5	5	5	13	13	0	0									
E/6	GSIP 600x900 IAD	0.028	80	5	5	5	15	15	0	0									
E/7	GSIP 900x900 IAD	0.028	80	5	5	5	15	15	0	0									

Plotted: 4 September 2020 4:02:20 PM File Name: J:\9898ED\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\9898-11-CC4414.dwg

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C

B	ISSUE FOR CONSTRUCTION APPROVAL	KM	JM	MP	MS	04/09/20
A	ISSUE FOR TENDER	KM	VS	MP	MS	22/05/20
	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.

NEW PARK PRECINCT 6C
 STORMWATER CALCULATIONS TABLES SHEET 4

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-11-CC4414**

PROJECT No: **9985-11**
 SHEET No: **CC4414**

Plans are referenced in certificate number

20076/01 issued by:

Registered Certifier: Peter Shahatt
Registration Reference: BDC3022
BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
Subdivision Certifiers Pty Ltd
Date: 09/09/20



DESIGN STORM 1%AEP HYDRAULIC RESULTS

Table with columns: PIPE NAME, PIPE DIAMETER, PIPE TYPE, PIPE LENGTH, PIPE GRADE, CRITICAL STORM, PEAK FLOW, CAPACITY RATIO, PEAK VELOCITY, U/S IL, D/S IL, D/S DROP, U/S PIT, D/S PIT, PIT LOSS, WSE LOSS, U/S PIPE, D/S PIPE, HGL, MINIMUM COVER, MINIMUM FREEBOARD, COMMENTS

Plotfile: 4 September 2020 4:02:34 PM File Name: J:\9895DD\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\0985-11-CC4415.dwg

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature: [Signature]
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C

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

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

NEW PARK PRECINCT 6C
STORMWATER CALCULATIONS TABLES SHEET 5

PROJECT No: 9985-11

SHEET No: CC4415

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-11-CC4415

Table with columns: B, A, AMENDMENT, DES, DRN, CKD, APR, DATE

B

Plans are referenced in certificate number 200076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20

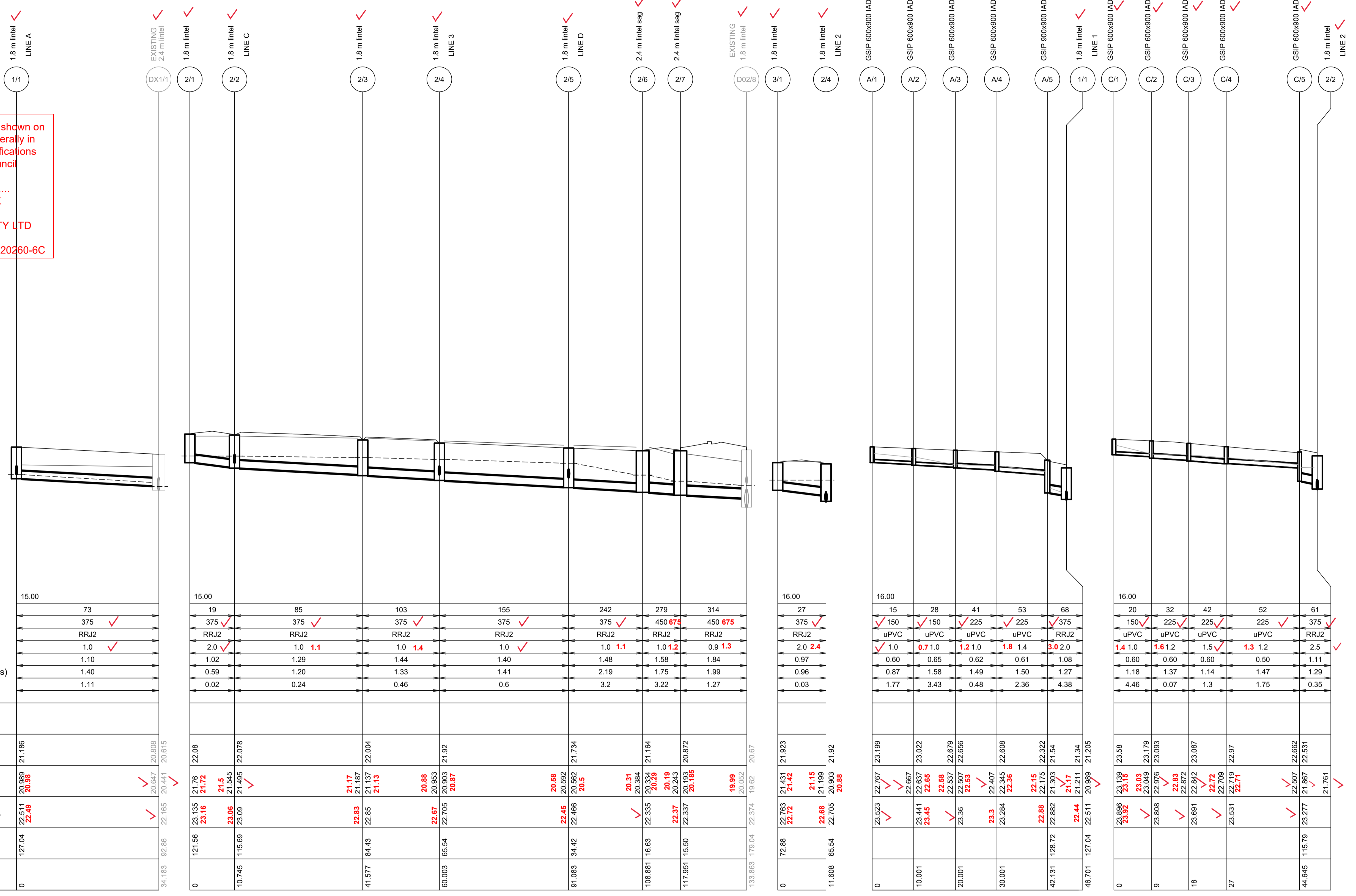


NOTE:
 - - - - 10% AEP HGL. PROVIDED FOR INFORMATION ONLY
 - - - - 5% AEP HGL. PROVIDED FOR INFORMATION ONLY
 - - - - 1% AEP HGL. PROVIDED FOR INFORMATION ONLY

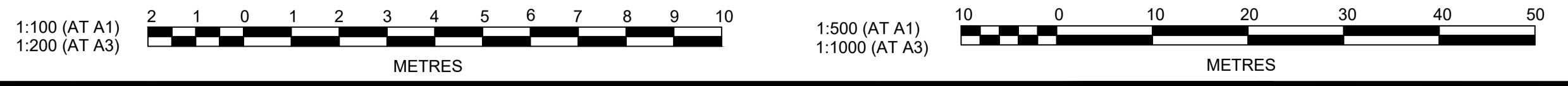
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C



LINE	PEAK FLOW (L/s)	PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE (%)	PIPE COVER MINIMUM	FULL PIPE VELOCITY (m/s)	HGL GRADE (%)
LINE 1 - 10% AEP	73	375	RRJ2	1.0	1.10	1.40	1.11
LINE 2 - 10% AEP	19, 85, 103, 155, 242, 279, 314	375	RRJ2	2.0, 1.0, 1.0, 1.0, 1.0, 1.0, 0.9	1.02, 1.29, 1.44, 1.40, 1.48, 1.58, 1.84	0.59, 1.20, 1.33, 1.41, 2.19, 1.75, 1.99	0.02, 0.24, 0.46, 0.6, 3.2, 3.22, 1.27
LINE 3 - 10% AEP	27	375	RRJ2	2.0	0.97	0.96	0.03
LINE A - 5% AEP	15, 28, 41, 53, 68	150, 150, 225, 225, 375	uPVC, uPVC, uPVC, uPVC, RRJ2	1.0, 0.7, 1.2, 1.8, 3.0	0.60, 0.65, 0.62, 0.61, 3.0	0.87, 1.58, 1.49, 1.50, 1.27	1.77, 3.43, 0.48, 2.36, 4.38
LINE C - 5% AEP	20, 32, 42, 52, 61	150, 225, 225, 225, 375	uPVC, uPVC, uPVC, uPVC, RRJ2	1.4, 1.0, 1.6, 1.5, 1.3	0.60, 0.60, 0.60, 0.50, 2.5	1.18, 1.37, 1.14, 1.47, 1.29	4.46, 0.07, 1.3, 1.75, 0.35



Plotfile: 4 September 2020 4:02:44 PM File Name: J:\985D\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\985-11-CC4421.dwg

ISSUE	DESCRIPTION	DESIGNER	DRYING	CHECKED	APPROVED	DATE
B	ISSUE FOR CONSTRUCTION APPROVAL	KM	JM	MP	MS	04/09/20
A	ISSUE FOR TENDER	KM	VS	MP	MS	22/05/20
	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.

NEW PARK PRECINCT 6C
 STORMWATER LONGITUDINAL SECTIONS SHEET 1

PROJECT No: **9985-11**
 SHEET No: **CC4421**

PLAN No: **9985-11-CC4421**

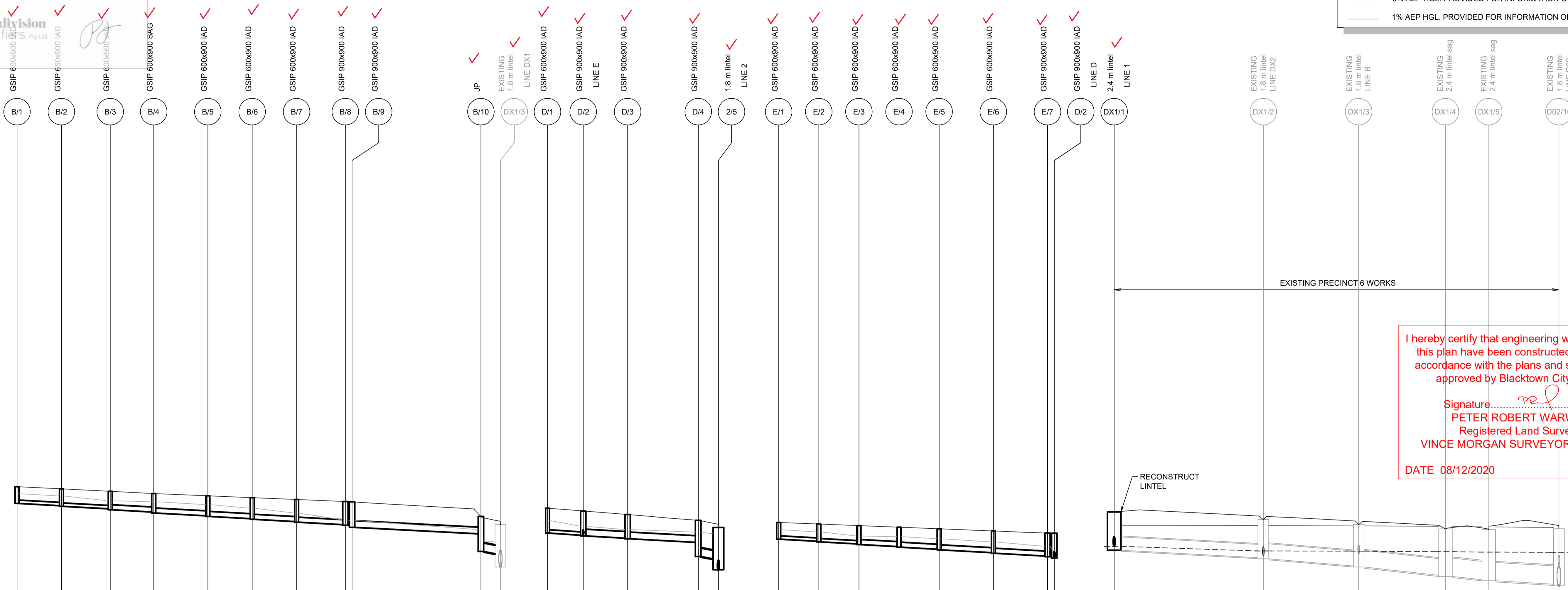
PROJECT No: **9985-11**
 SHEET No: **CC4421**

STATUS: **B**

Plans are referenced in certificate number 200076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20

NOTE:
 - - - - - 10% AEP HGL. PROVIDED FOR INFORMATION ONLY
 - - - - - 5% AEP HGL. PROVIDED FOR INFORMATION ONLY
 - - - - - 1% AEP HGL. PROVIDED FOR INFORMATION ONLY

Plotted: 4 September, 2020, 4:02:54 PM File Name: J:\9898D\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SP\PRECINCT 6\9898-11-CC4422.dwg



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council
 Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 08/12/2020 REF 20260-6C

LINE B - 5% AEP	LINE D - 5% AEP	LINE E - 5% AEP	LINE DX1 - 10% AEP																																																																																																																																																																																																																		
<table border="1"> <tr><td>Flow (L/s)</td><td>11</td><td>22</td><td>38</td><td>44</td><td>55</td><td>65</td><td>76</td><td>97</td><td>90</td><td>94</td></tr> <tr><td>Depth (mm)</td><td>150</td><td>150</td><td>225</td><td>225</td><td>225</td><td>225</td><td>225</td><td>300</td><td>300</td><td>375</td></tr> <tr><td>Material</td><td>uPVC</td><td>uPVC</td><td>uPVC</td><td>uPVC</td><td>uPVC</td><td>uPVC</td><td>uPVC</td><td>RRJ2</td><td>uPVC</td><td>RRJ2</td></tr> <tr><td>Depth Error (%)</td><td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td>2.4</td></tr> <tr><td>Min Velocity (m/s)</td><td>0.60</td><td>0.63</td><td>0.60</td><td>0.65</td><td>0.70</td><td>0.75</td><td>0.79</td><td>0.77</td><td>0.61</td><td>1.10</td></tr> <tr><td>Min Velocity Error (%)</td><td>0.63</td><td>1.22</td><td>1.28</td><td>1.11</td><td>1.37</td><td>1.64</td><td>1.92</td><td>1.84</td><td>1.49</td><td>1.40</td></tr> <tr><td>Min Velocity Error Error (%)</td><td>1.06</td><td>1.95</td><td>0.45</td><td>1.07</td><td>1.59</td><td>2.19</td><td>2.83</td><td>1.13</td><td>1.44</td><td>1.41</td></tr> </table>	Flow (L/s)	11	22	38	44	55	65	76	97	90	94	Depth (mm)	150	150	225	225	225	225	225	300	300	375	Material	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC	RRJ2	uPVC	RRJ2	Depth Error (%)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.4	Min Velocity (m/s)	0.60	0.63	0.60	0.65	0.70	0.75	0.79	0.77	0.61	1.10	Min Velocity Error (%)	0.63	1.22	1.28	1.11	1.37	1.64	1.92	1.84	1.49	1.40	Min Velocity Error Error (%)	1.06	1.95	0.45	1.07	1.59	2.19	2.83	1.13	1.44	1.41	<table border="1"> <tr><td>Flow (L/s)</td><td>18</td><td>102</td><td>116</td><td>105</td></tr> <tr><td>Depth (mm)</td><td>150</td><td>300</td><td>300</td><td>375</td></tr> <tr><td>Material</td><td>uPVC</td><td>uPVC</td><td>uPVC</td><td>RRJ2</td></tr> <tr><td>Depth Error (%)</td><td>1.71</td><td>1.0</td><td>1.1</td><td>2.6</td></tr> <tr><td>Min Velocity (m/s)</td><td>0.95</td><td>0.77</td><td>0.70</td><td>1.20</td></tr> <tr><td>Min Velocity Error (%)</td><td>1.04</td><td>1.46</td><td>1.69</td><td>1.35</td></tr> <tr><td>Min Velocity Error Error (%)</td><td>3.62</td><td>1.45</td><td>0.75</td><td>1.41</td></tr> </table>	Flow (L/s)	18	102	116	105	Depth (mm)	150	300	300	375	Material	uPVC	uPVC	uPVC	RRJ2	Depth Error (%)	1.71	1.0	1.1	2.6	Min Velocity (m/s)	0.95	0.77	0.70	1.20	Min Velocity Error (%)	1.04	1.46	1.69	1.35	Min Velocity Error Error (%)	3.62	1.45	0.75	1.41	<table border="1"> <tr><td>Flow (L/s)</td><td>11</td><td>21</td><td>34</td><td>41</td><td>50</td><td>61</td><td>73</td></tr> <tr><td>Depth (mm)</td><td>150</td><td>150</td><td>225</td><td>225</td><td>225</td><td>225</td><td>225</td></tr> <tr><td>Material</td><td>uPVC</td><td>uPVC</td><td>uPVC</td><td>uPVC</td><td>uPVC</td><td>uPVC</td><td>uPVC</td></tr> <tr><td>Depth Error (%)</td><td>1.4</td><td>1.0</td><td>1.0</td><td>1.2</td><td>1.0</td><td>1.2</td><td>1.0</td></tr> <tr><td>Min Velocity (m/s)</td><td>0.60</td><td>0.65</td><td>0.62</td><td>0.67</td><td>0.72</td><td>0.77</td><td>0.83</td></tr> <tr><td>Min Velocity Error (%)</td><td>0.61</td><td>1.19</td><td>1.14</td><td>1.08</td><td>1.26</td><td>1.54</td><td>1.83</td></tr> <tr><td>Min Velocity Error Error (%)</td><td>1.15</td><td>2.02</td><td>0.33</td><td>1.01</td><td>1.19</td><td>1.75</td><td>7.2</td></tr> </table>	Flow (L/s)	11	21	34	41	50	61	73	Depth (mm)	150	150	225	225	225	225	225	Material	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC	Depth Error (%)	1.4	1.0	1.0	1.2	1.0	1.2	1.0	Min Velocity (m/s)	0.60	0.65	0.62	0.67	0.72	0.77	0.83	Min Velocity Error (%)	0.61	1.19	1.14	1.08	1.26	1.54	1.83	Min Velocity Error Error (%)	1.15	2.02	0.33	1.01	1.19	1.75	7.2	<table border="1"> <tr><td>Flow (L/s)</td><td>114</td><td>265</td><td>395</td><td>343</td><td>384</td></tr> <tr><td>Depth (mm)</td><td>600</td><td>675</td><td>750</td><td>825</td><td>825</td></tr> <tr><td>Material</td><td>RRJ2</td><td>RRJ2</td><td>RRJ2</td><td>RRJ2</td><td>RRJ2</td></tr> <tr><td>Depth Error (%)</td><td>1.0</td><td>1.5</td><td>1.9</td><td>1.5</td><td>1.0</td></tr> <tr><td>Min Velocity (m/s)</td><td>1.11</td><td>1.18</td><td>1.25</td><td>1.33</td><td>1.62</td></tr> <tr><td>Min Velocity Error (%)</td><td>1.73</td><td>1.90</td><td>2.01</td><td>1.72</td><td>1.46</td></tr> <tr><td>Min Velocity Error Error (%)</td><td>0.61</td><td>0.05</td><td>0.12</td><td>0.17</td><td>0.08</td></tr> </table>	Flow (L/s)	114	265	395	343	384	Depth (mm)	600	675	750	825	825	Material	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	Depth Error (%)	1.0	1.5	1.9	1.5	1.0	Min Velocity (m/s)	1.11	1.18	1.25	1.33	1.62	Min Velocity Error (%)	1.73	1.90	2.01	1.72	1.46	Min Velocity Error Error (%)	0.61	0.05	0.12	0.17	0.08
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ISSUE FOR CONSTRUCTION APPROVAL	KM	JM	MP	MS	04/09/20
ISSUE FOR TENDER	KM	VS	MP	MS	22/05/20
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 jwpp@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.

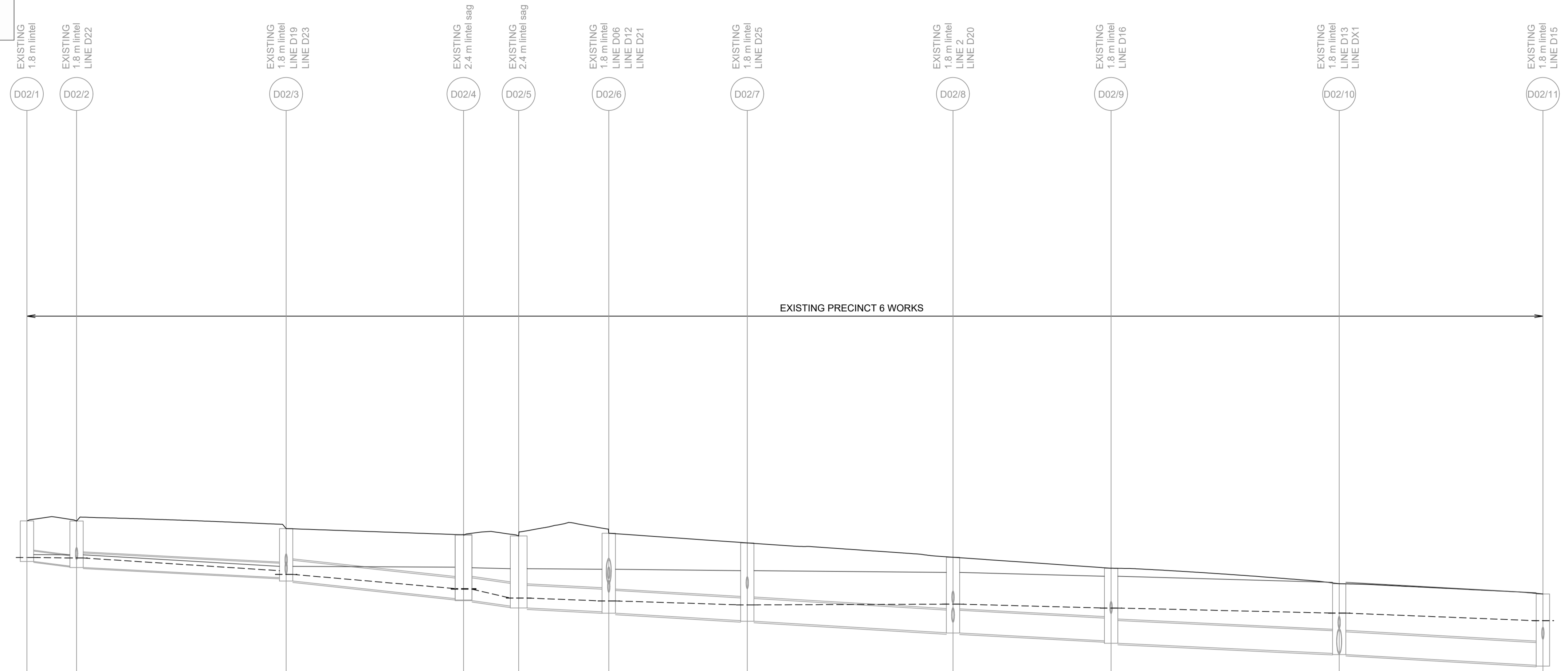
PROJECT No: **9985-11**
 SHEET No: **CC4422**
 PLAN No: **9985-11-CC4422**

PROJECT No: **9985-11**
 SHEET No: **CC4422**
 AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112

Plans are referenced in certificate number
200076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20




NOTE:
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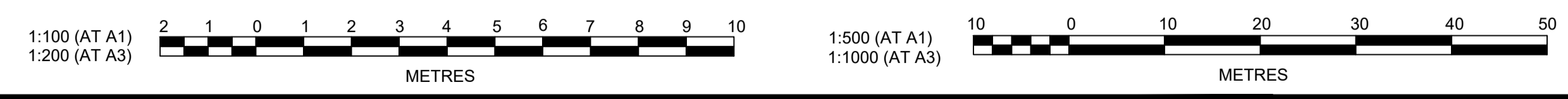
DATUM (m)	14.00		14.00		14.00		14.00		14.00		14.00		14.00		14.00		14.00		14.00		14.00		14.00	
PEAK FLOW (L/s)	17	216	373	393	407	624	615	1074	1043	1281														
PIPE SIZE (mm)	375	525	750	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2
PIPE GRADE (%)	1.9	1.0	2.0	2.0	0.9	1.1	1.1	1.0	0.9	1.1														
PIPE COVER MINIMUM	1.12	1.26	1.09	1.57	1.93	1.96	1.88	1.77	1.68	1.69														
FULL PIPE VELOCITY (m/s)	0.65	1.69	2.26	1.93	1.87	2.24	2.25	2.63	2.47	2.89														
HGL GRADE (%)	0.2	1.21	1.6	3.21	0.64	0.57	-0.07	0.49	0.44	0.75														
WAE																								
HYDRAULIC GRADE LINE	22.343	22.325	21.863	21.729	21.213	21.213	20.892	20.787	20.643	20.67	20.529	20.345	20.069											
INVERT LEVEL	22.2	22.03	21.81	21.49	20.85	20.8	20.6	20.39	20.07	19.63	19.34	18.88	18.45											
DESIGN SURFACE LEVEL	23.671	23.667	23.394	23.394	23.178	23.146	23.247	22.895	22.374	21.977	21.411	21.042	21.042											
ROAD CHAINAGE	88.11	88.64	50.00	17.78	13.39	116.63	141.88	179.04	207.67	248.00	284.00	284.00	284.00											
PIPE CHAINAGE	0	9.012	47.069	79.287	89.302	105.653	130.803	168.161	196.868	238.287	275.278	284.00	284.00											

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C

LINE D02 - 10% AEP



Plotfile: 4 September, 2020 4:03:04 PM File Name: J:\9898DICC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\9898-11-CC4423.dwg

B	ISSUE FOR CONSTRUCTION APPROVAL	KM	JM	MP	MS	04/09/20
A	ISSUE FOR TENDER	KM	VS	MP	MS	22/05/20
	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:
 **WINT PROPERTY GROUP**

STATUS:
ISSUE FOR CONSTRUCTION APPROVAL

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

NEW PARK PRECINCT 6C
 STORMWATER LONGITUDINAL SECTIONS SHEET 3

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-11-CC4423

PROJECT No:
9985-11

SHEET No:
CC4423

B

Plans are referenced in certificate number

200076/01 issued by:

Registered Certifier: Peter Shahatt
Registration Reference: BDC3022

BDC Categories: B1, C1, C2, C3, C4, C6, C15, D

Subdivision Certifiers Pty Ltd

Date: 09/09/20 GENERAL NOTES:



SOIL AND WATER MANAGEMENT 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, EDITION, MARCH 2010"
- 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 DISTURBED AREAS SHALL BE REVEGETATED AS SOON AS THE RELEVANT WORKS ARE COMPLETED.
- ALL SEDIMENT BASINS AND TRAPS SHALL BE CLEANED WHEN THE STRUCTURES ARE A MAXIMUM 60% FULL OF SOLID MATERIALS, INCLUDING DURING THE MAINTENANCE PERIOD.
- THE SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND COUNCIL'S WRITTEN GUIDELINES FOR THE DEVELOPMENT OF LAND.
- CONTRACTORS SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS SPECIFIED ON THE PLAN AND IN ACCORDANCE WITH THE GUIDELINES SHOWN IN "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION 4TH EDITION" (THE BLUE BOOK).
- ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR REDUCING THE SOIL EROSION AND POLLUTION OF DOWNSLOPE AREAS.
- THE SOIL EROSION HAZARD ON THE SITE IS TO BE KEPT AS LOW AS POSSIBLE AND GENERALLY IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

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

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

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

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

- PROTECTION FROM EROSION FORCES SHALL BE UNDERTAKEN ON ALL LANDS. GROUND COVER TO BE IN PLACE WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION AND BEFORE THEY ARE ALLOWED TO CARRY ANY CONCENTRATED FLOWS.
- TEMPORARY GROUND COVER SHOULD BE MINIMUM 70%. FOOT AND VEHICULAR TRAFFIC SHALL BE KEPT AWAY FROM REHABILITATED AREAS.
- WHERE POSSIBLE THE CONSTRUCTION PROGRAM IS TO SCHEDULE WORKS SUCH THAT LAND DISTURBANCE ACTIVITIES ARE COMPLETED IN LESS THAN 6 MONTHS. REVEGETATION WORKS MUST BE CARRIED OUT AS STIPULATED IN THE RELEVANT COUNCIL GUIDELINES / SPECIFICATIONS SUCH THAT A SATISFACTORY GROUND COVER IS PROVIDED TO AT LEAST 60% OF THE DISTURBED AREA WITHIN 10 DAYS AND AT LEAST 70% OF THE DISTURBED AREA WITHIN A FURTHER 60 DAYS..
- SEDIMENT FENCES (SD) 6-8 SHALL:-
 - BE INSTALLED WHERE SHOWN ON THE PLAN AND AS DIRECTED AT THE DISCRETION OF THE SITE SUPERINTENDENT DURING THE COURSE OF CONSTRUCTION TO CONTAIN THE COARSER SEDIMENT FRACTIONS AS NEAR AS POSSIBLE TO THEIR SOURCE.
 - HAVE A CATCHMENT AREA NOT EXCEEDING 720sq.m. AND A STORAGE DEPTH OF AT LEAST 0.6m.
 - PROVIDE AN UPSLOPE RETURN OF 1m AT INTERVALS ALONG THE FENCE WHERE THE CATCHMENT AREA EXCEEDS 720sq.m. TO LIMIT THE DISCHARGE REACHING EACH SECTION TO 50litres/sec IN A MAX. 10yr Tc DISCHARGE.
- STOCKPILES (SD) 4-1 SHALL BE LOCATED AS SHOWN ON THE PLANS AND AT THE DISCRETION OF THE SITE SUPERINTENDENT.
- DURING WINDY WEATHER LARGE UNPROTECTED AREAS ARE TO BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL. IN THE EVENT WATER IS NOT AVAILABLE IN SUFFICIENT QUANTITIES SOIL BINDERS AND/OR DUST RETARDANTS SHALL BE USED OR THE SURFACE SHALL BE LEFT IN A CLODDY STATE THAT RESISTS REMOVAL BY WIND.
- STOCKPILES SHALL NOT BE LOCATED WITHIN 5m OF HAZARD AREAS, INCLUDING LIKELY AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS OR DRIVEWAYS.
- THE SEDIMENT RETENTION BASINS (SD) 6-4 SHALL:-
 - 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 RESPONSIBILITIES ARE LIMITED TO MAINTENANCE OF THE SDS DEVICES AND/OR SEDIMENT BASINS (ie DURING THE STAGE WHEN BUILDING WORKS CAN BE UNDERTAKEN) TO PROVIDE A SHORT WRITTEN REPORT EACH 4 MONTHS

THE RESPONSIBLE PERSON SHALL ENSURE THAT:-

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

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature.....
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C

Plotfile: 4 September, 2020, 4:03:12 PM File Name: J:\9898D\CC - Construction Certificate Approval\Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\CI9898-11-CC4700.dwg

B	ISSUE FOR CONSTRUCTION APPROVAL	KM	JM	MP	MS	04/09/20
A	ISSUE FOR TENDER	KM	VS	MP	MS	22/05/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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NEW PARK PRECINCT 6C
SOIL & WATER MANAGEMENT NOTES

PROJECT No: **9985-11**
SHEET No: **CC4700**

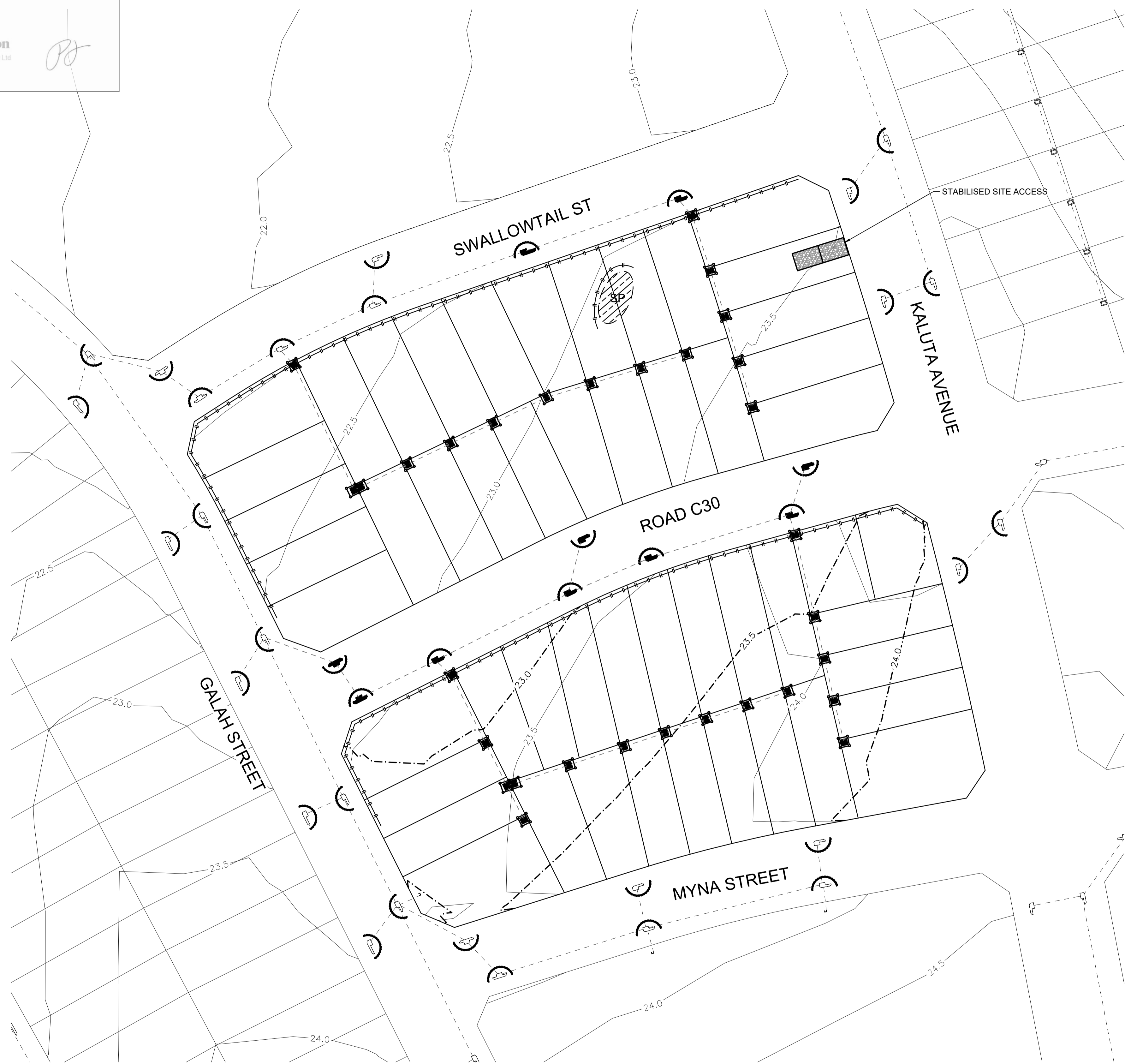
AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-11-CC4700**

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Plans are referenced in certificate number
 200076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20



PR



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

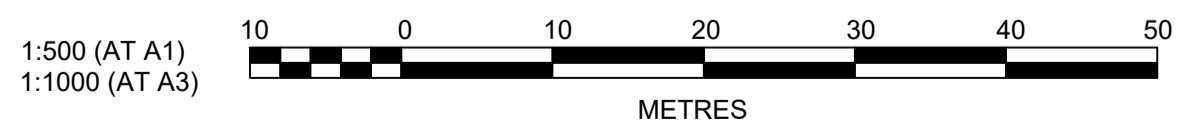


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I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature: *PR*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C



AMENDMENT	DES	DRN	CKD	APR	DATE
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CLIENT:

WINTER PROPERTY GROUP

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NEW PARK PRECINCT 6C
 SOIL & WATER MANAGEMENT PLAN

PROJECT No: **9985-11**
 SHEET No: **CC4701**

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-11-CC4701**

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Plans are referenced in certificate number

200076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20



PS

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
TB	Give way line (Used with Signs)		Reflectorised white
TB1	Give way line (Used on right side of side)		Reflectorised white

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.

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

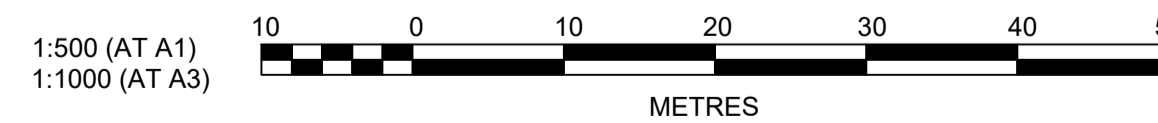
LINE MARKING NOT COMPLETE AT TIME OF SURVEY



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature: *PR*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C



Plotted: 4 September 2020 4:04:00 PM File Name: J:\98985D\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SP\PRECINCT 6\CI9895-11-CC4800.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
B					04/09/20
A					22/05/20

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



STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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

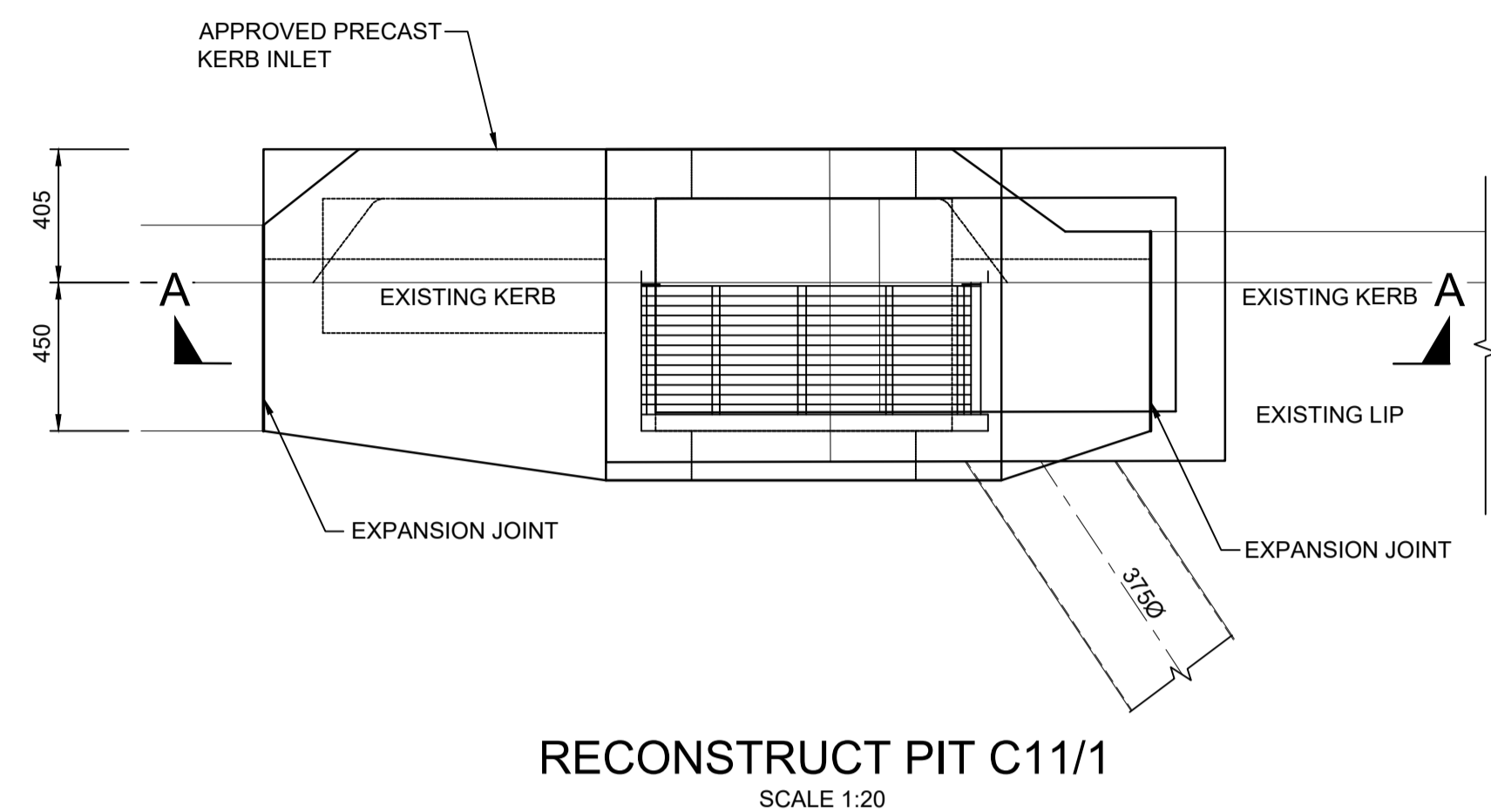
NEW PARK PRECINCT 6C
 SIGNAGE & LINEMARKING PLAN

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-11-CC4800

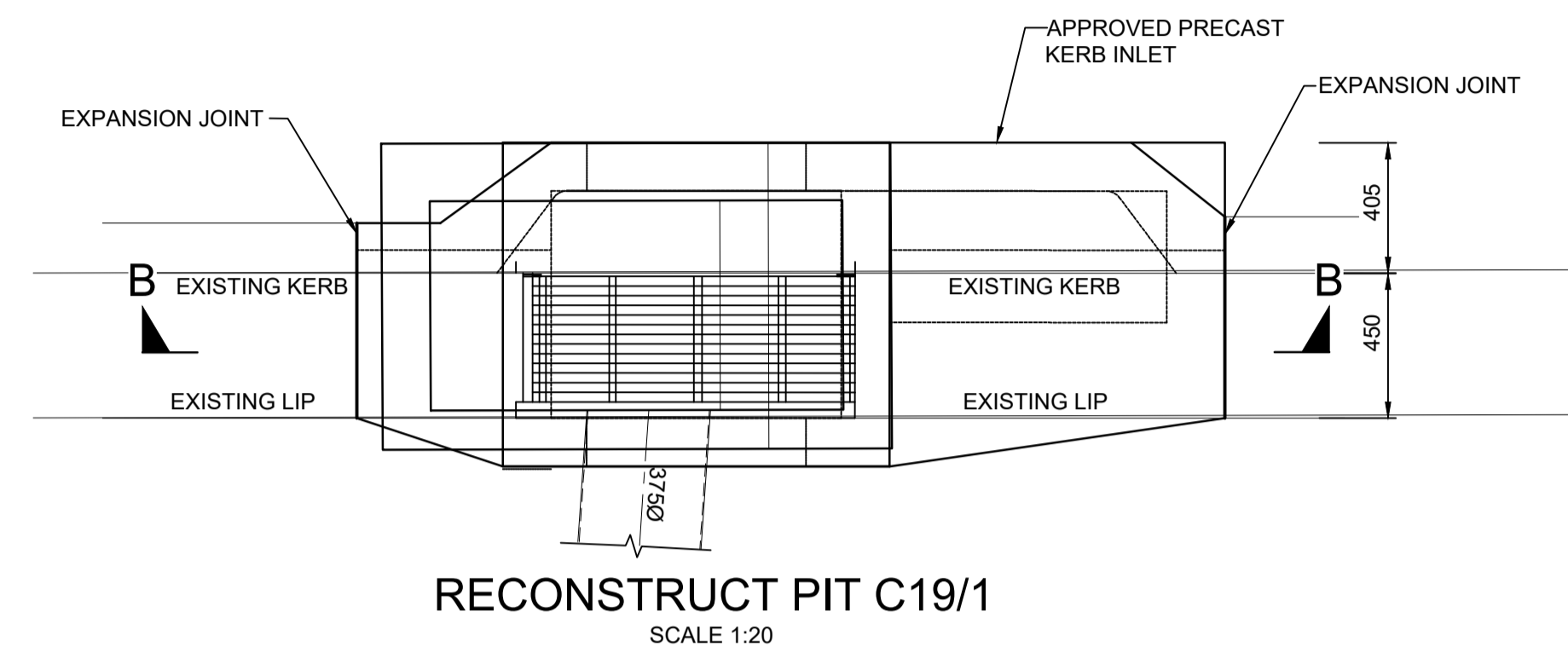
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 SHEET No: CC4800

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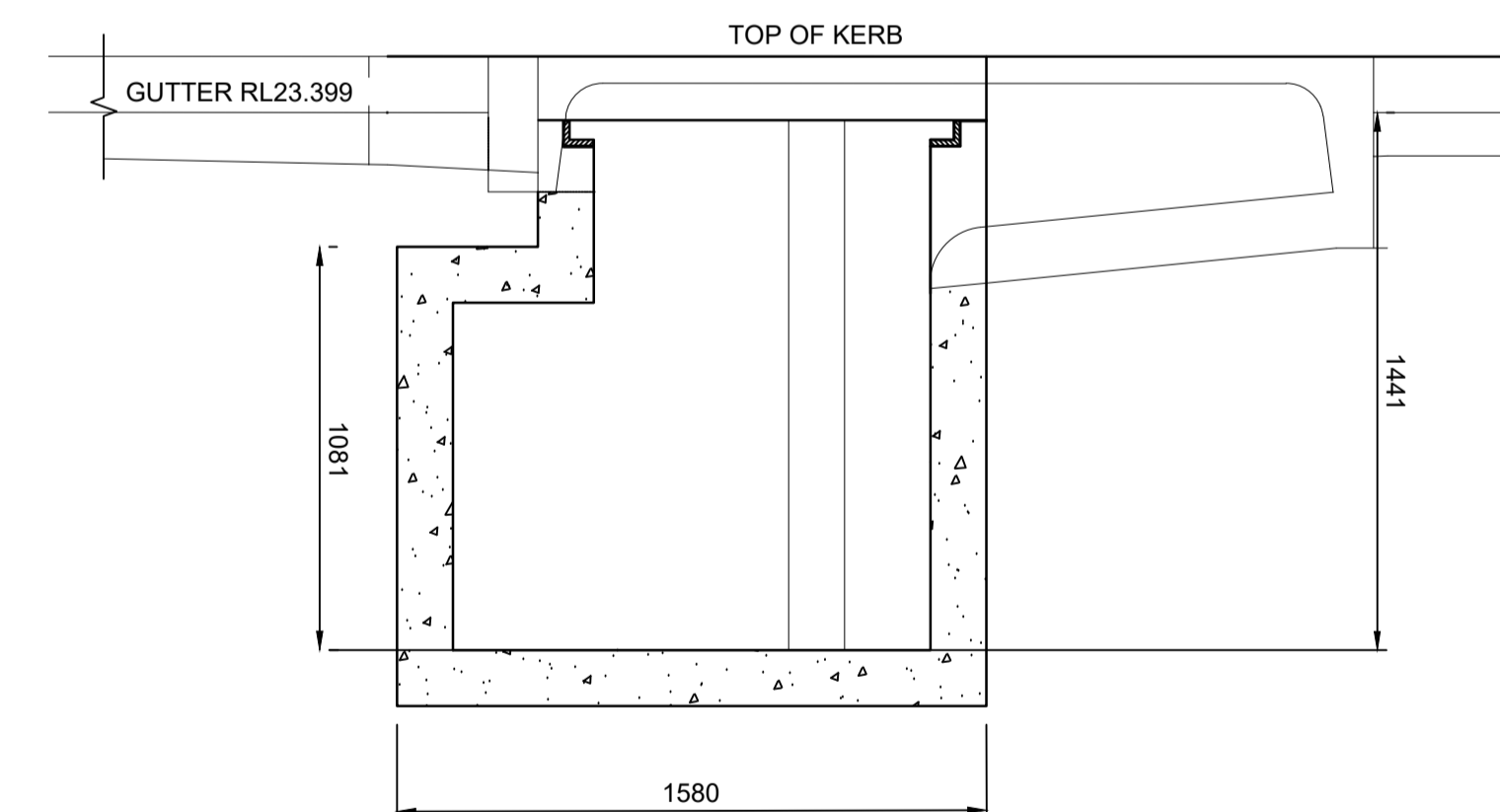
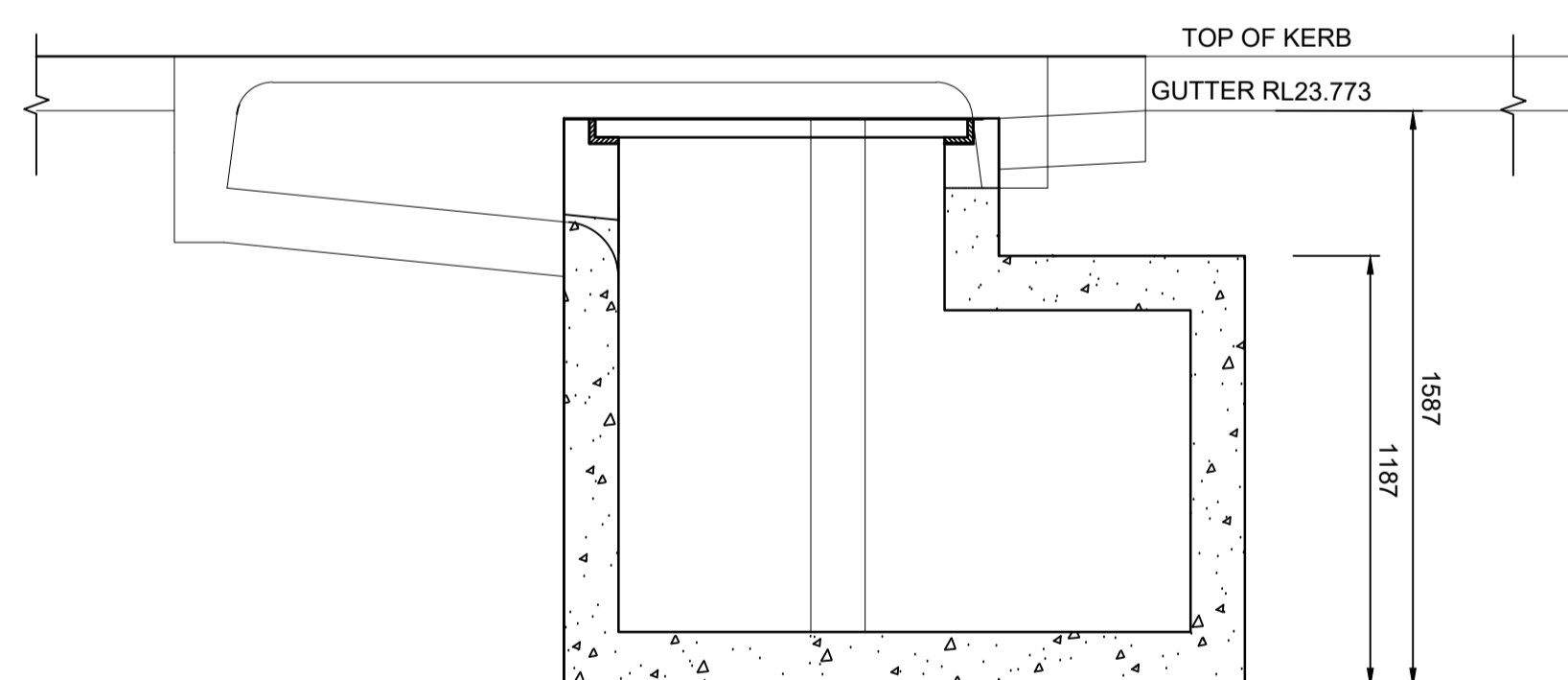
Plans are referenced in certificate number
20076/01 issued by:
 Registered Certifier: Peter Shahatt
 Registration Reference: BDC3022
 BDC Categories: B1,C1,C2,C3,C4,C6,C15,D1
 Subdivision Certifiers Pty Ltd
 Date: 09/09/20



RECONSTRUCT PIT C11/1
 SCALE 1:20



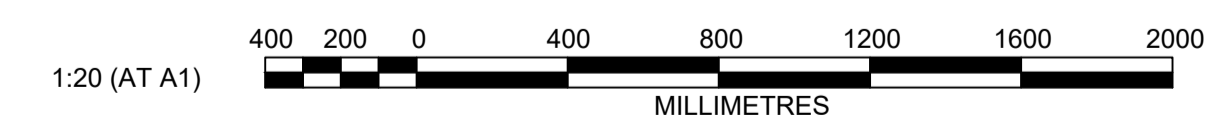
RECONSTRUCT PIT C19/1
 SCALE 1:20



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Blacktown City Council

Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 08/12/2020 REF 20260-6C



Plotfile: 4 September 2020 3:56:50 PM File Name: J:\985D\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6\985-11-CC4810.dwg

NO.	DESCRIPTION	DES	DRN	CKD	APR	DATE
B	ISSUE FOR CONSTRUCTION APPROVAL	KM	JM	MP	MS	04/09/20
A	ISSUE FOR TENDER	KM	VS	MP	MS	22/05/20
	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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NEW PARK PRECINCT 6C
 PITS C11/1 & D19/1 DETAILS

AZIMUTH: M.G.A. DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-11-CC4810

PROJECT No: **9985-11**
 SHEET No: **CC4810**

B