

PARADISE LAKES - STAGE 3

PARADISE ROAD, WILLAWONG

FOR 'UNILAND PTY LTD'

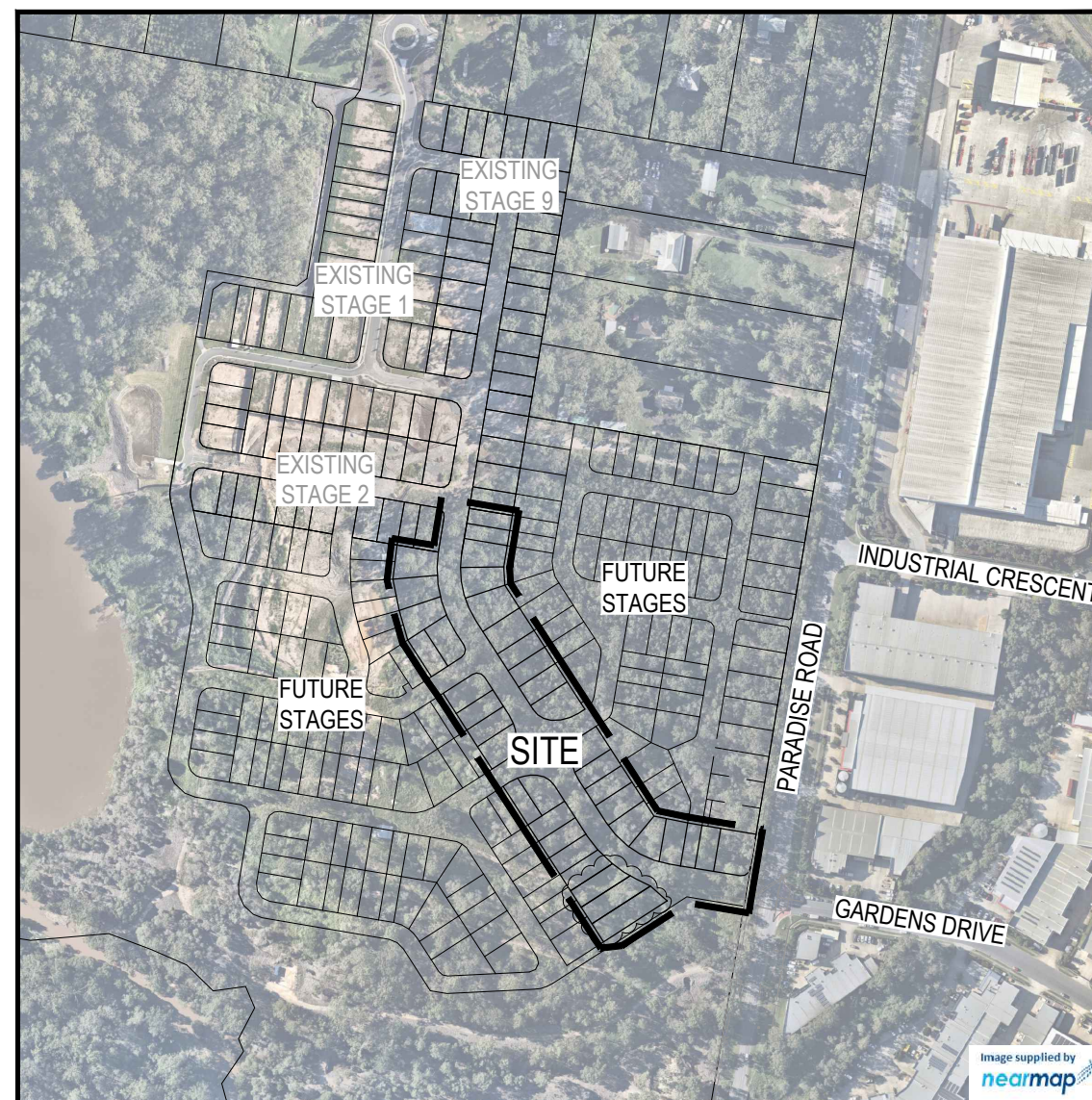
DRAWING LIST

EARTHWORKS, ROADWORKS AND DRAINAGE

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LOCALITY PLAN
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)

PROJECT INFORMATION SUMMARY:

No. OF LOTS = 37
AREA OF SITE = 2.60 ha
RP DESCRIPTION LOT 500 ON SP 315966
DATUM LEVEL AND LOCATION P.S.M. 59279 RL 18.006 AHD LOCATED IN DALMENY STREET
LOCAL AUTHORITY: BRISBANE CITY COUNCIL
COUNCIL REFERENCE NUMBER: A005778632

NOTE:

- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:
- VEGETATION MANAGEMENT PLAN
 - APPROVAL NALL PERMIT
 - LANDSCAPE ARCHITECT'S PLANS
 - ELECTRICAL, COMMUNICATIONS AND GAS CONSULTANT'S PLANS
 - SEDIMENT AND EROSION HAZARD ASSESSMENT
 - SAFETY IN DESIGN REPORT
 - EVERICK HERITAGE MITIGATION PLAN AND YUP AWARENESS TRAINING

BCC DS

RECEIVED

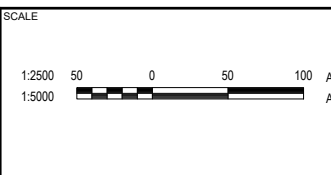
05/06/2026

APPLICATION REF

A007043291

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	10.02.26	SC	SC	ISSUED FOR CONSTRUCTION		ISSUED FOR CONSTRUCTION	1:2500 50 0 50 100 A1	UNILAND PTY LTD	PARADISE LAKES STAGE 3	COVER PLAN
B	12.05.26	SC	SC	LOT LAYOUT CHANGED			1:5000	ASSOCIATED CONSULTANT WOLTERS CONSULTING GROUP (07) 2666 5200	PARADISE ROAD WILLAWONG	PROJECT No. 21-0075
										DRAWING No. 100
										REVISION B

FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



CLIENT
UNILAND PTY LTD

PROJECT NAME
PARADISE LAKES STAGE 3

DRAWING TITLE
COVER PLAN

LEGEND

- PROPOSED AREA OF WORKS/STAGE BOUNDARY
- - - - -24.0- - - - - PROPOSED SURFACE CONTOUR
- - - - -24.0- - - - - EXISTING SURFACE CONTOUR
- - - - - PROPOSED EARTHWORKS PAD SETBACK LINE
- - - - - PROPOSED CONCRETE SLEEPER RETAINING WALL
- - - - - EXISTING CONCRETE SLEEPER RETAINING WALL
- - - - - RETAINING WALL SUBSOIL PIPE EXTENSION
- 24.60 PROPOSED FINISHED SURFACE LEVEL (FSL) (AFTER TOPSOIL PLACEMENT)
- 24.60 EXISTING SURFACE LEVEL (ESL)
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- INDICATIVE DRIVEWAY LOCATIONS
- - - - - ZERO LOT BOUNDARY
- - - - - EXISTING STORMWATER DRAINAGE PIPE
- - - - - EXISTING SEWER MAIN
- - - - - EXISTING WATER MAIN
- - - - - EXISTING WATER CONDUIT
- - - - - EXISTING ELECTRICAL CABLE U/G
- - - - - EXISTING TELECOMMUNICATION CABLE U/G
- EXISTING TREE TO REMAIN - REFER VMP
- EXISTING TREE TO BE REMOVED - REFER VMP

WARNING! - EXISTING SERVICES

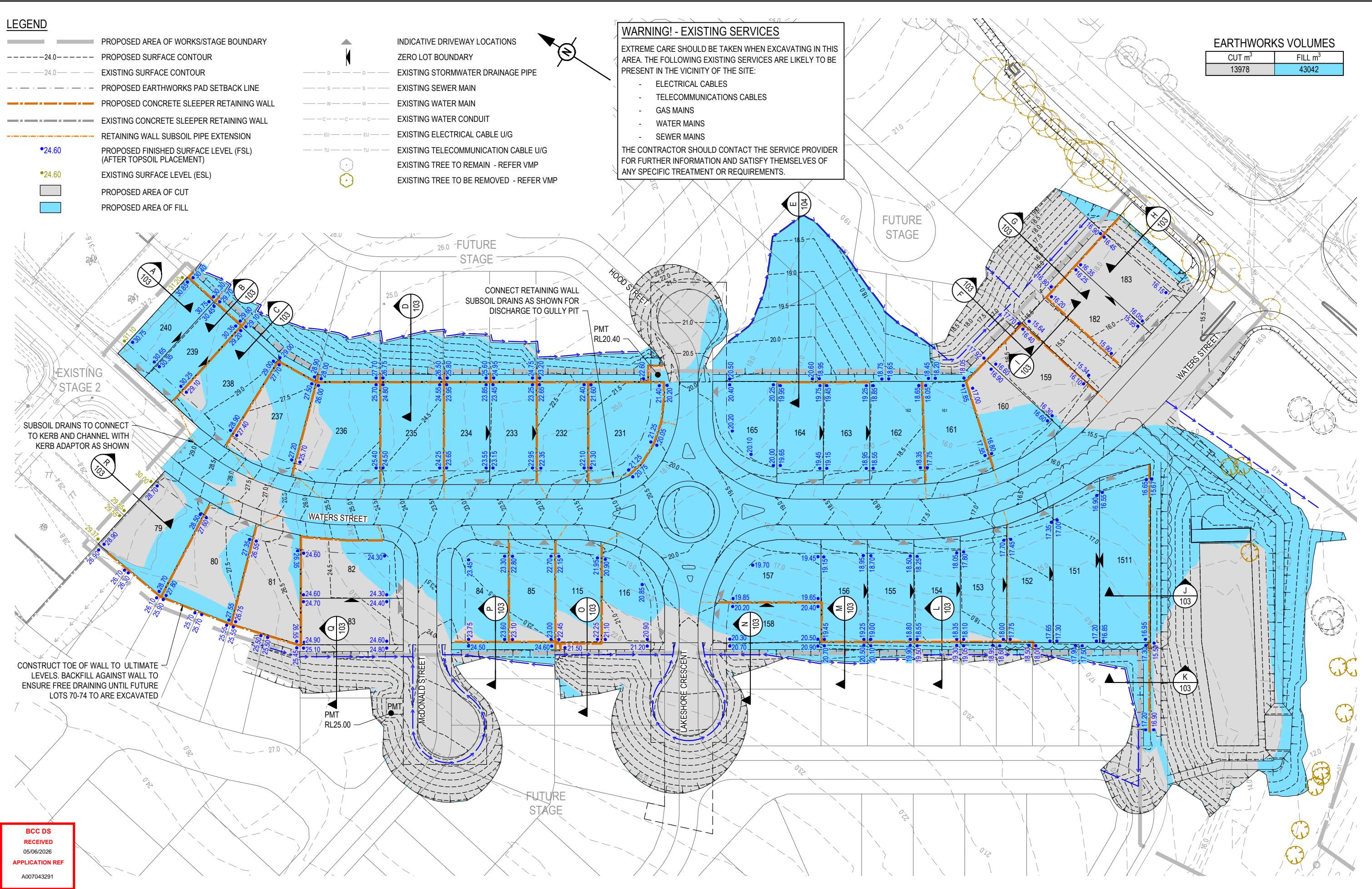
EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

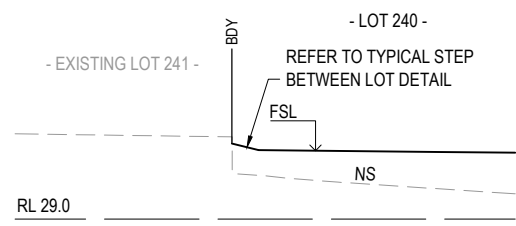
EARTHWORKS VOLUMES

CUT m ³	FILL m ³
13978	43042

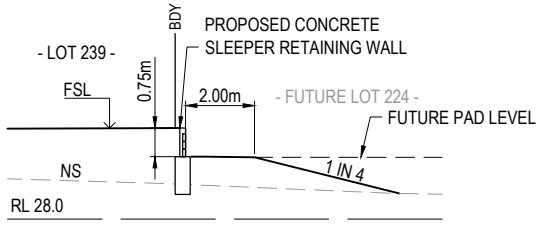


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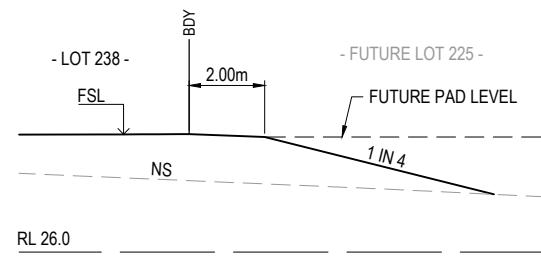
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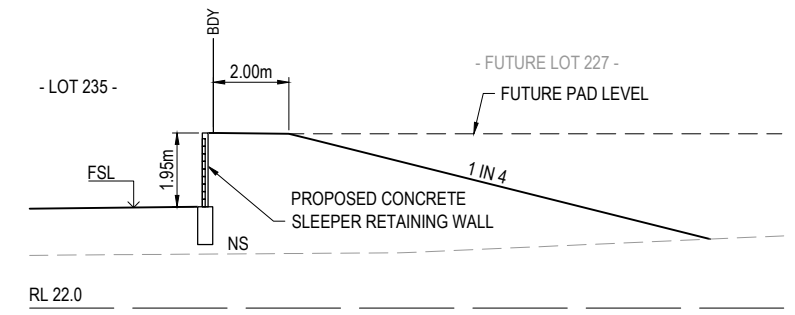
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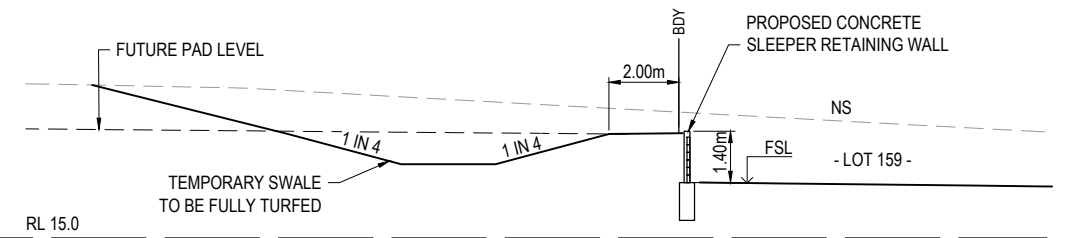
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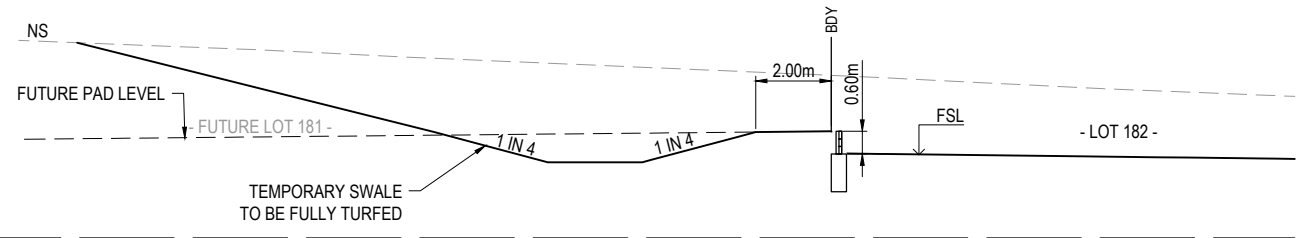
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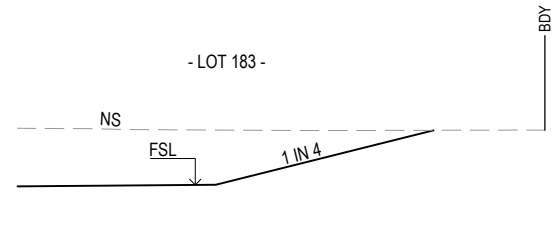
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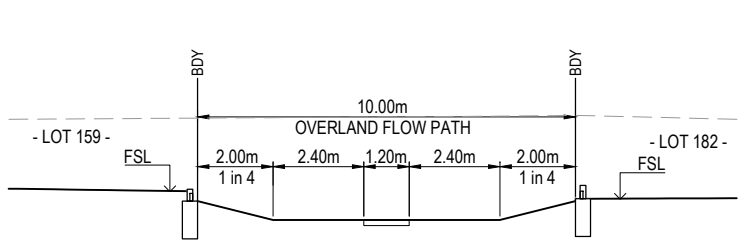
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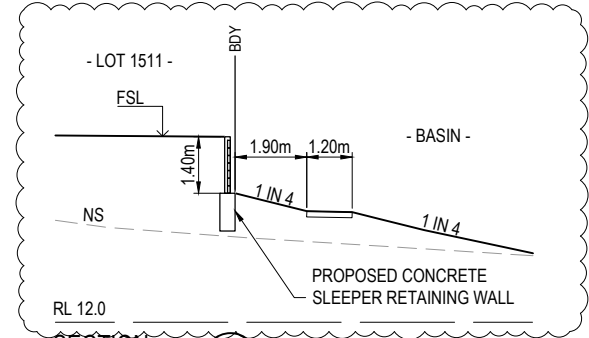
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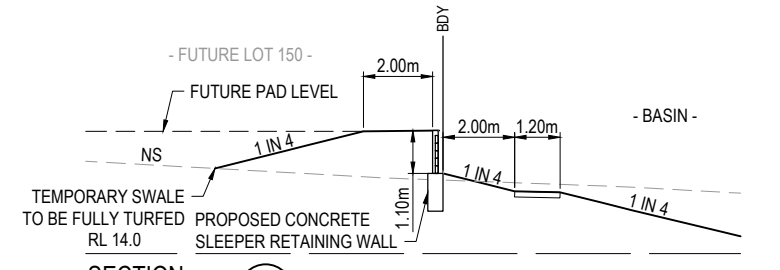
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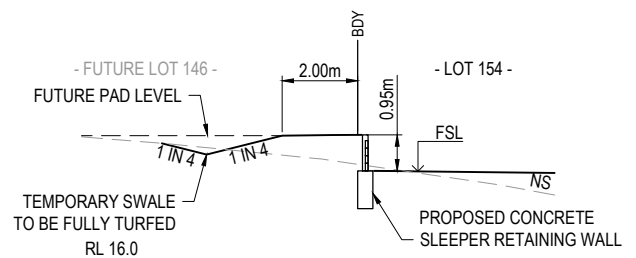
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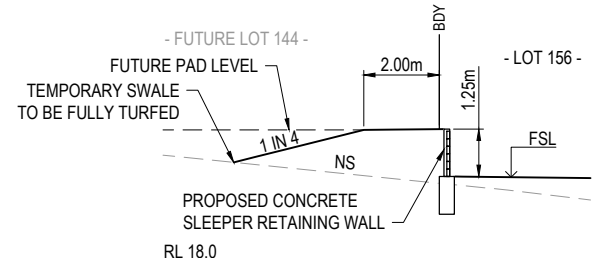
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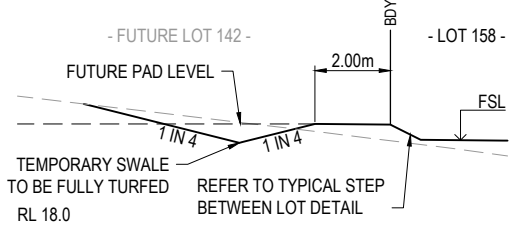
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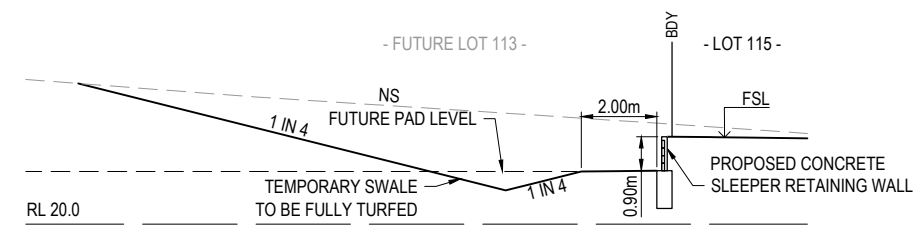
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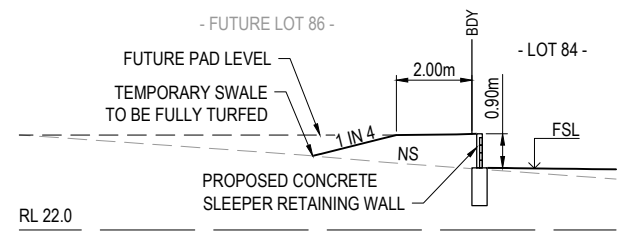
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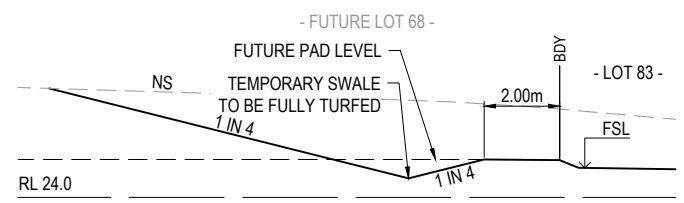
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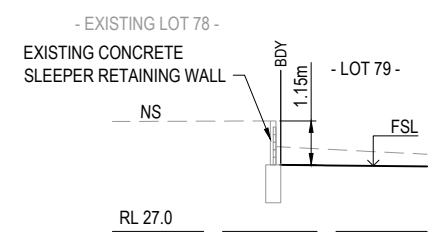
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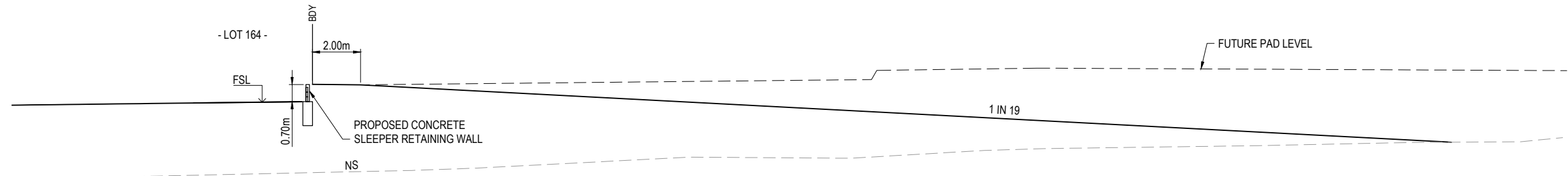
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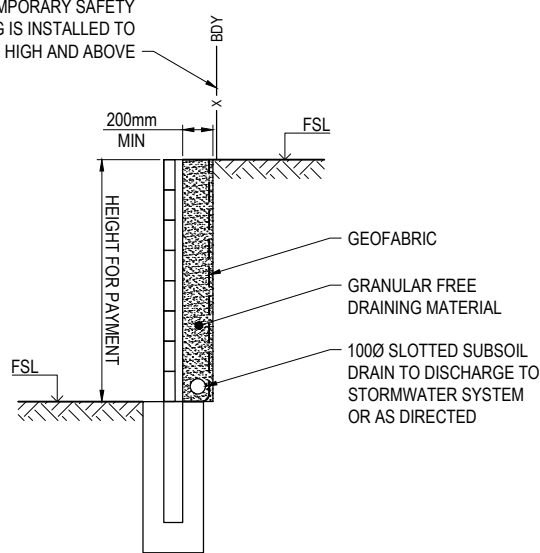
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A	10.02.26	SC	SC	ISSUED FOR CONSTRUCTION			1:100 1:200	UNILAND PTY LTD	PARADISE LAKES STAGE 3	BULK EARTHWORKS TYPICAL SECTIONS
B	12.05.26	SC	SC	LOT LAYOUT CHANGED						
ISSUED FOR CONSTRUCTION  DESIGN: APPROVED ANDREW NGO RPEQ 12329 DATE: 12.05.26 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD							ASSOCIATED CONSULTANT: WOLTERS CONSULTING GROUP (07) 2666 5200		PARADISE ROAD WILLAWONG PROJECT No: 21-0075 DRAWING No: 103 REVISION: B	



RL 15.0

SECTION E
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SCALE 1:200 (A3)

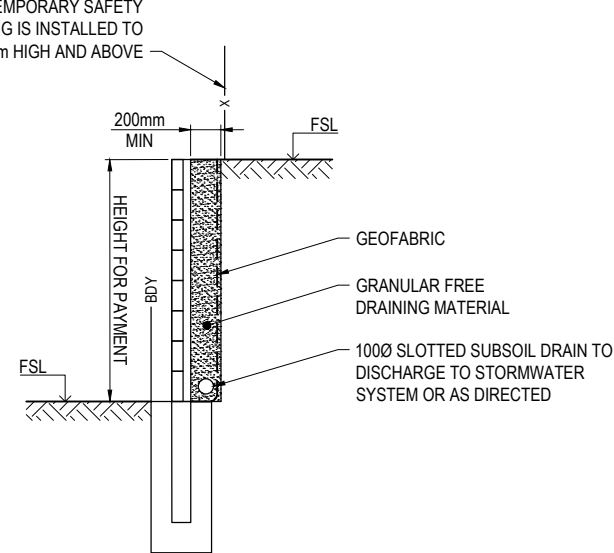
ENSURE TEMPORARY SAFETY FENCING IS INSTALLED TO ALL WALLS 1.0m HIGH AND ABOVE



CONCRETE SLEEPER RETAINING WALL
TYPICAL DETAIL - SIDE AND REAR BOUNDARIES

SCALE 1:25 (A1)
SCALE 1:50 (A3)

ENSURE TEMPORARY SAFETY FENCING IS INSTALLED TO ALL WALLS 1.0m HIGH AND ABOVE

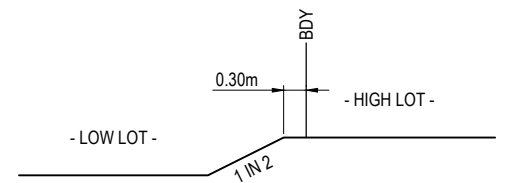


CONCRETE SLEEPER RETAINING WALL
TYPICAL DETAIL - ADJACENT ROAD RESERVE

SCALE 1:25 (A1)
SCALE 1:50 (A3)

RETAINING WALL NOTES:

1. ALL RETAINING WALLS ARE TO BE DELIVERED UNDER DESIGN AND CONSTRUCTION ARRANGEMENT - FORMS 15 AND 12 CERTIFICATIONS ARE TO BE PROVIDED BY THE CONTRACTOR.
2. DESIGN OF WALLS TO CONSIDER ALL LOADS (FENCES, DWELLINGS ETC) AND ASSOCIATED IMPACTS FROM ANY ADJACENT SERVICES - FOOTING DEPTHS TO BE EXTENDED AS REQUIRED.
3. GEOTECHNICAL CONDITIONS ARE TO BE CONFIRMED AND APPROPRIATELY CONSIDERED FOR ALL WALLS.
4. REFER LANDSCAPE DRAWINGS FOR FURTHER INFORMATION ON RETAINING WALLS, PARTICULARLY RELATING TO FINISHES.
5. TEMPORARY SAFETY FENCING TO BE INSTALLED BEHIND ALL WALLS 1.0m HIGH AND GREATER.



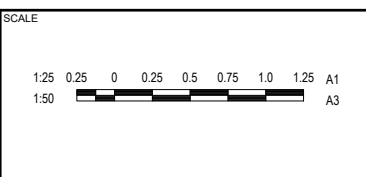
TYPICAL STEP BETWEEN LOTS DETAIL

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

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DRAWN	STATUS
SC	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED ANDREW NGO RPEQ 12329 DATE 16.02.26
SC	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



CLIENT
UNILAND PTY LTD

ASSOCIATED CONSULTANT
WOLTERS CONSULTING GROUP
(07) 2666 5200

PROJECT NAME
PARADISE LAKES STAGE 3

PARADISE ROAD
WILLAWONG

DRAWING TITLE		
BULK EARTHWORKS RETAINING WALL DETAILS		
PROJECT No.	DRAWING No.	REVISION
21-0075	104	A

LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED ROAD CONTROL LINE
- EXISTING ROAD CROWN
- PROPOSED KERB INVERT LINE
- EXISTING EDGE OF BITUMEN
- PROPOSED KERB TRANSITION LOCATION
- PROPOSED CONCRETE PATH AND PRAM RAMP
- PROPOSED NEW ROAD PAVEMENT
- PROPOSED NEW ROAD PAVEMENT - CONCRETE
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY
- PROPOSED SURFACE CONTOUR
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED DRAINAGE SWALE
- PROPOSED ROOFWATER KERB ADAPTOR
- PROPOSED ROOFWATER KERB ADAPTOR WITH PIPE CONNECTION TO ALLOTMENT
- PROPOSED AREA OF FILTER MEDIA
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- EXISTING CONCRETE SLEEPER RETAINING WALL
- PROPOSED SEWERAGE MAIN
- EXISTING SEWERAGE MAIN
- EXISTING TRUNK SEWER MAIN
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER CONDUIT
- EXISTING WATER CONDUIT
- EXISTING ELECTRICAL CABLE U/G
- EXISTING TELECOMMUNICATION CABLE U/G
- EXISTING TREE - REFER VMP

ROOFWATER CONNECTION NOTE:

THE CONTRACTOR SHALL INSTALL A ROOFWATER CONNECTION TO EACH PROPERTY BY ONE OF THE FOLLOWING METHODS, AS SHOWN ON THE LAYOUT PLAN:

- ONE ROOFWATER KERB ADAPTOR 500mm FROM THE DOWNSTREAM BOUNDARY (UNLESS SHOWN ON A DIFFERENT ALIGNMENT). WHERE THERE IS A CONCRETE FOOTPATH, A ROOFWATER PIPE SHALL BE INSTALLED FROM THE PROPERTY BOUNDARY CONNECTED TO THE KERB ADAPTOR AT 1.25% MINIMUM GRADE, IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
- ONE 1500 ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0% GRADE WITH 1.0m COVER.

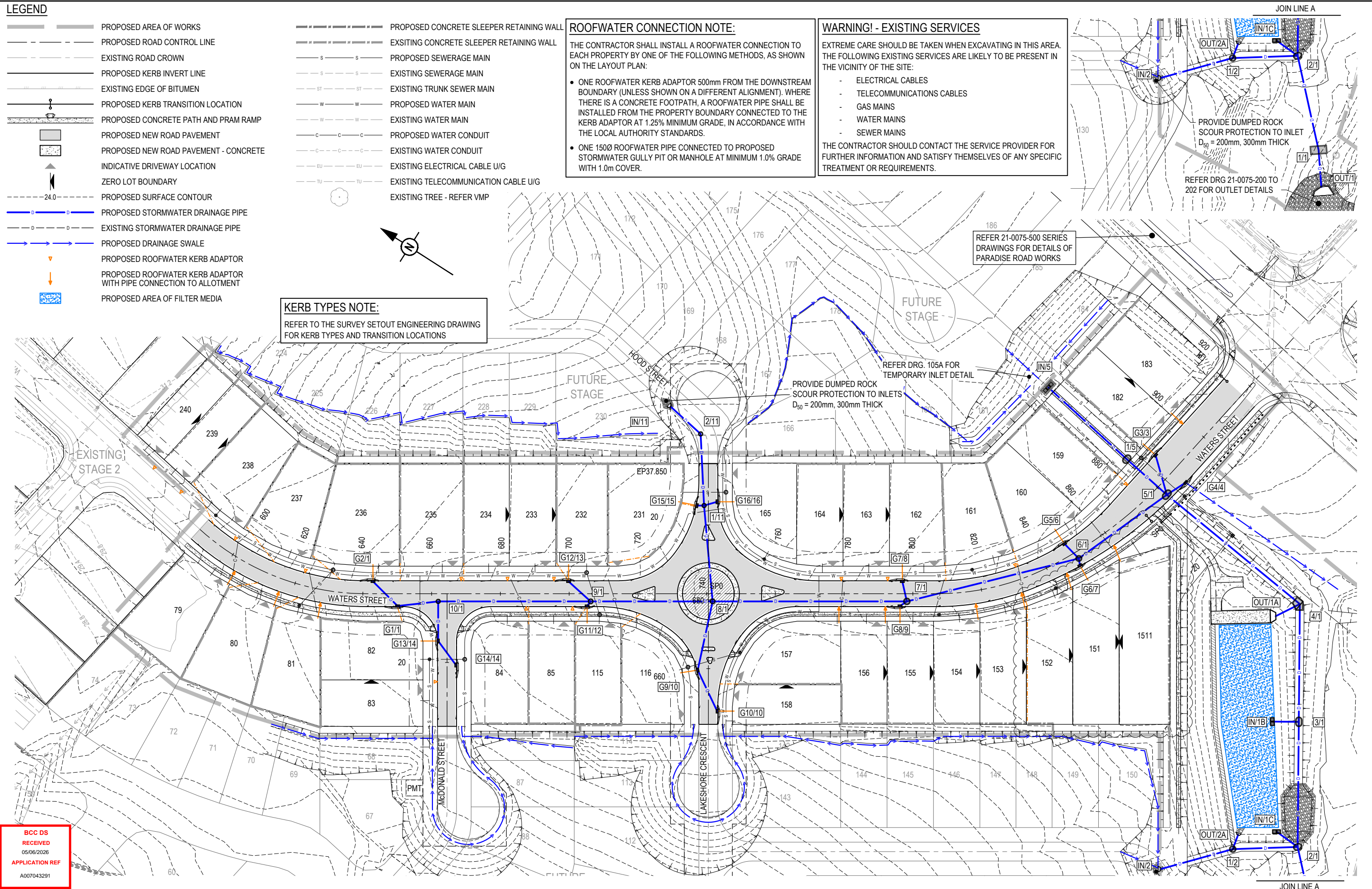
WARNING! - EXISTING SERVICES

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- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

KERB TYPES NOTE:
REFER TO THE SURVEY SETOUT ENGINEERING DRAWING FOR KERB TYPES AND TRANSITION LOCATIONS



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B	12.05.26	SC	SC	LOT LAYOUT CHANGED

ISSUED FOR CONSTRUCTION	DATE: 12.05.26
DESIGN APPROVED: ANDREW NGO	DATE: 12.05.26
PROJECT: RPEQ 12329	



SCALE

1:500 10 5 0 10 20 A1

1:1000

CLIENT

UNILAND PTY LTD

ASSOCIATED CONSULTANT
WOLTERS CONSULTING GROUP
(07) 2666 5200

PROJECT NAME

PARADISE LAKES STAGE 3

PARADISE ROAD
WILLAWONG

DRAWING TITLE

ROADWORKS AND DRAINAGE LAYOUT PLAN

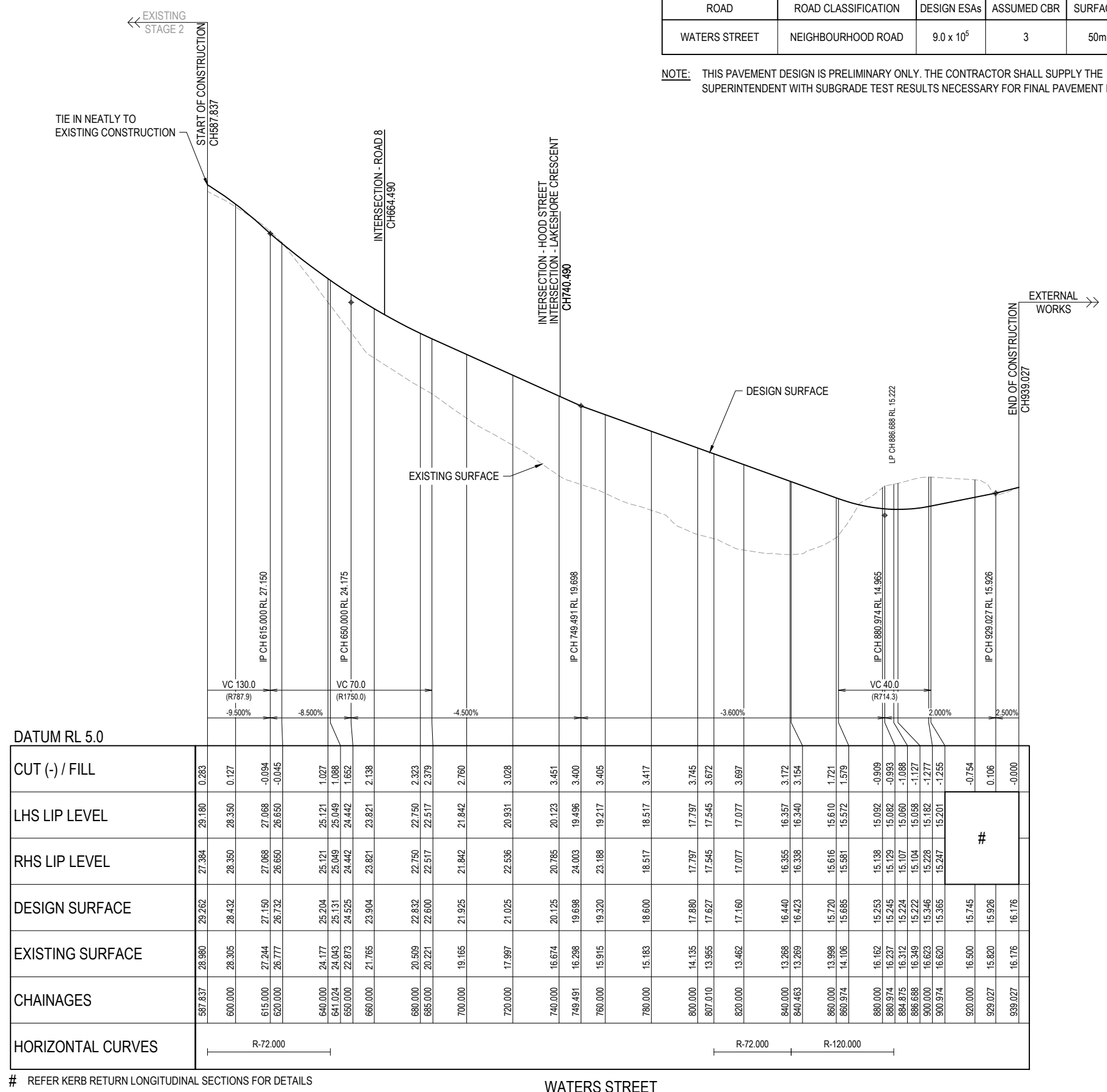
PROJECT No. **21-0075**

DRAWING No. **105**

REVISION **B**

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)								
ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
WATERS STREET	NEIGHBOURHOOD ROAD	9.0 x 10 ⁵	3	50mm	100mm	100mm	300mm	550mm

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN



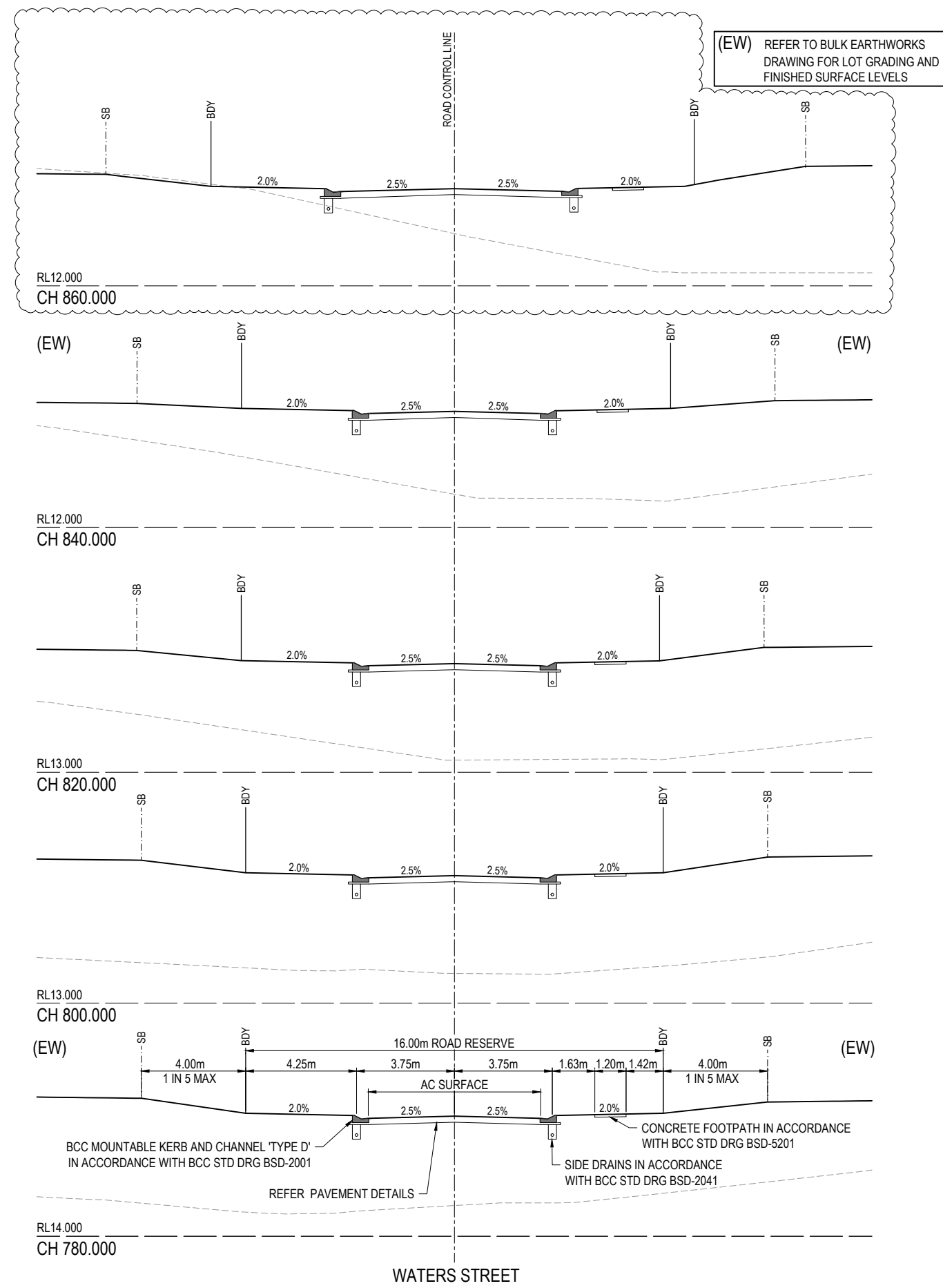
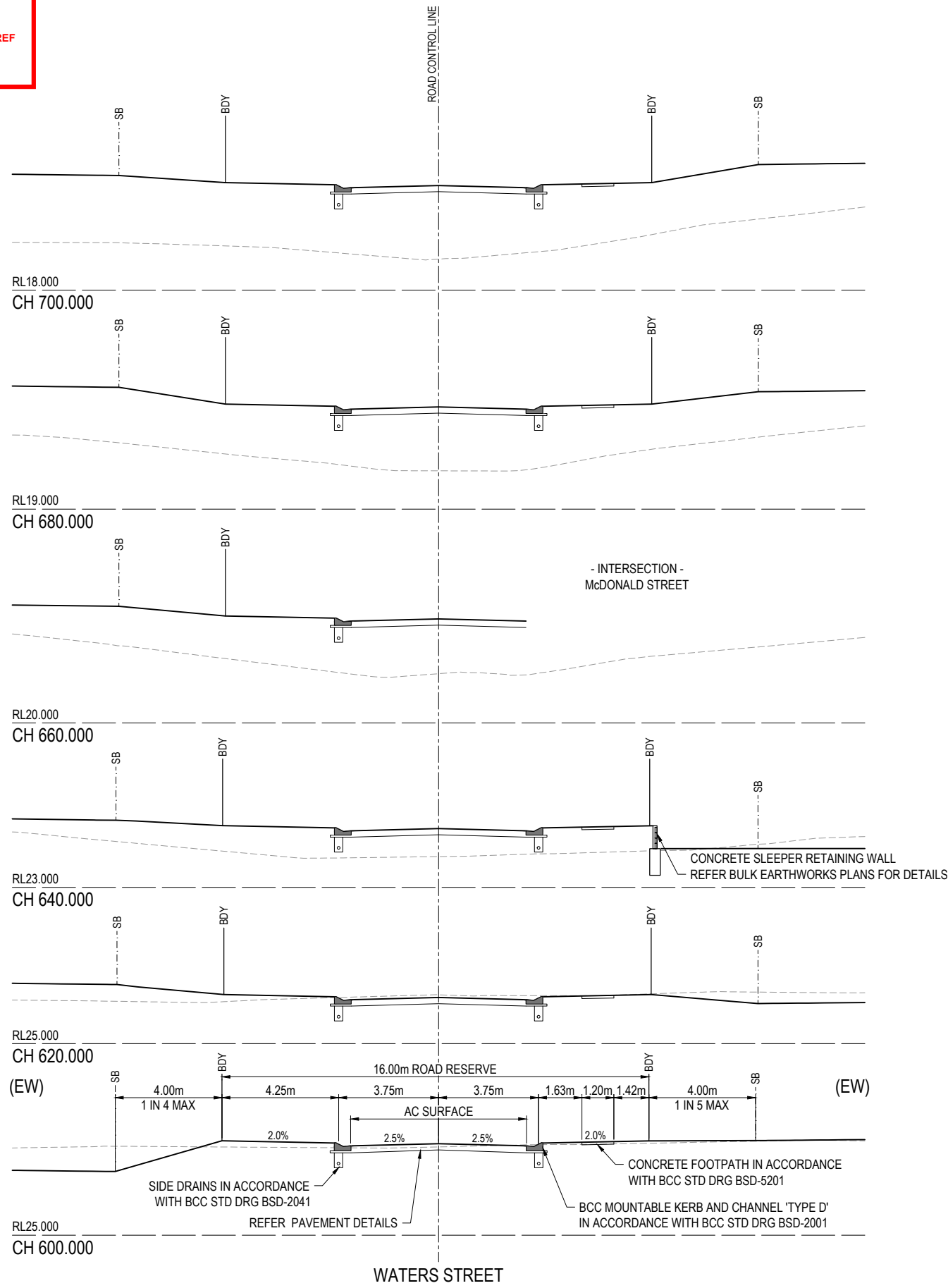
DATUM RL 5.0	
CUT (-) / FILL	0.283
LHS LIP LEVEL	29.180
RHS LIP LEVEL	27.384
DESIGN SURFACE	29.262
EXISTING SURFACE	28.980
CHAINAGES	597.837
HORIZONTAL CURVES	R-72.000

REFER KERB RETURN LONGITUDINAL SECTIONS FOR DETAILS

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 A007043291

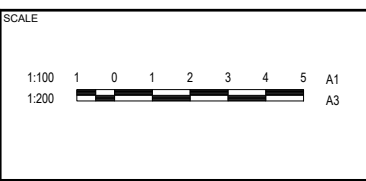
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A	10.02.26	SC	SC	ISSUED FOR CONSTRUCTION	SC	ISSUED FOR CONSTRUCTION			UNILAND PTY LTD	PARADISE LAKES STAGE 3	WATERS STREET LONGITUDINAL SECTION	
					DESIGN	APPROVED		ASSOCIATED CONSULTANT WOLTERS CONSULTING GROUP (07) 2666 5200	PARADISE ROAD WILLAWONG	PROJECT No. 21-0075	DRAWING No. 107	REVISION A
					SC	ANDREW NGO						

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APPLICATION REF
 A007043291



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	10.02.26	SC	SC	ISSUED FOR CONSTRUCTION
B	12.05.26	SC	SC	LOT LAYOUT CHANGED

DRAWN	STATUS
	ISSUED FOR CONSTRUCTION



CLIENT
UNILAND PTY LTD

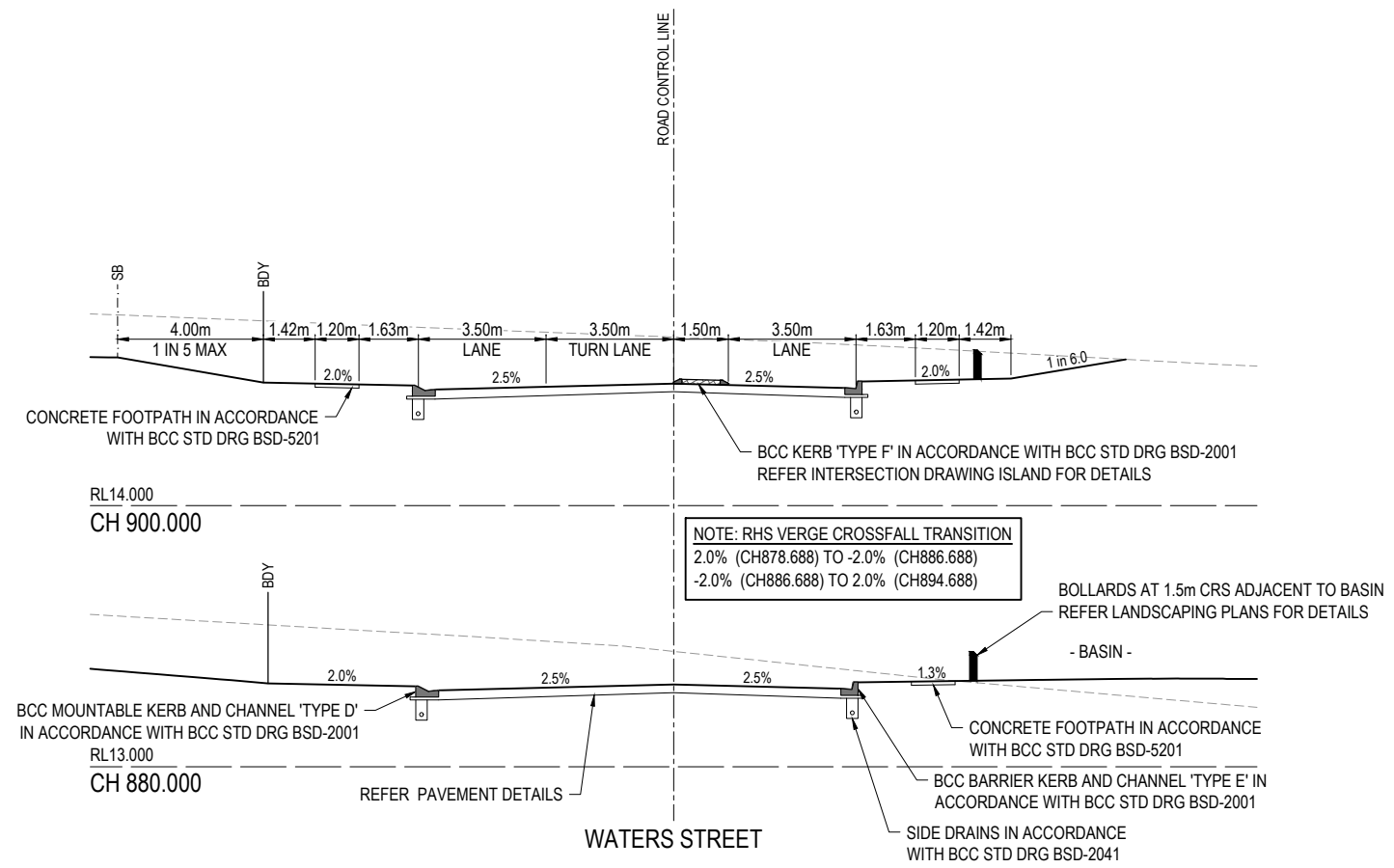
ASSOCIATED CONSULTANT
WOLTERS CONSULTING GROUP
 (07) 2666 5200

PROJECT NAME
PARADISE LAKES STAGE 3

PARADISE ROAD
 WILLAWONG

DRAWING TITLE		
WATERS STREET CROSS SECTIONS SHEET 1 OF 2		
PROJECT No.	DRAWING No.	REVISION
21-0075	108	B

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS



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APPLICATION REF
 A007043291

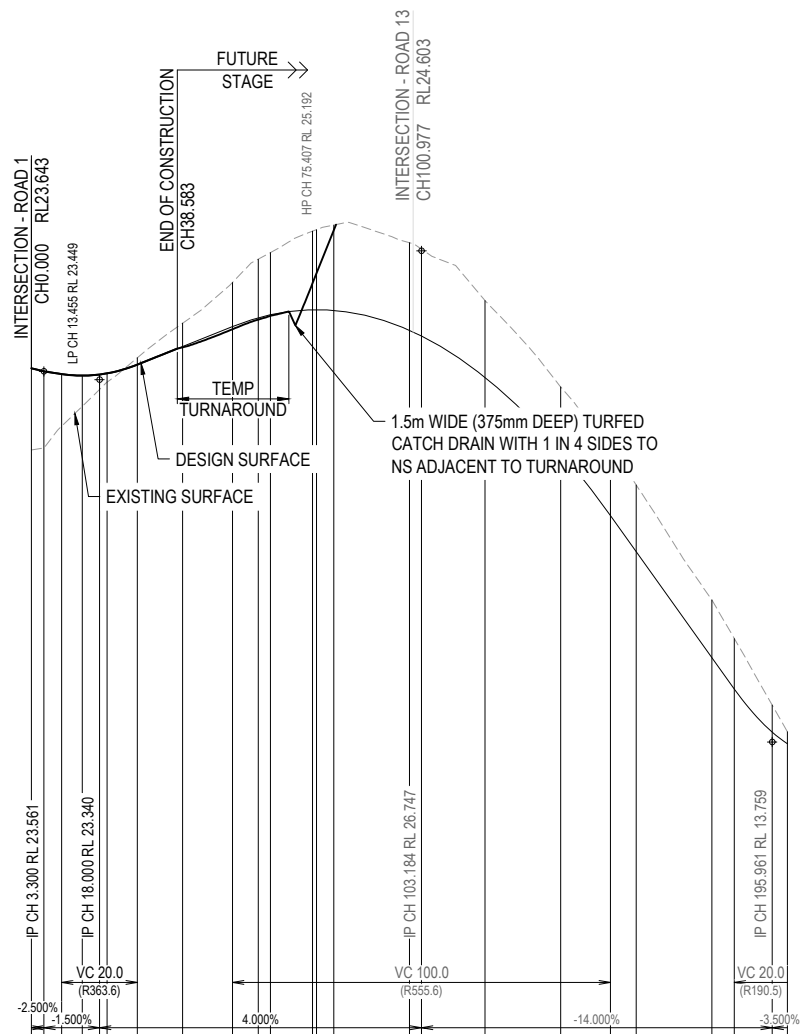
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A	10.02.26	SC	SC	ISSUED FOR CONSTRUCTION	SC	ISSUED FOR CONSTRUCTION		1:100 1:200	UNILAND PTY LTD	PARADISE LAKES STAGE 3	WATERS STREET CROSS SECTIONS SHEET 2 OF 2
					DESIGN	APPROVED			ASSOCIATED CONSULTANT	PARADISE ROAD WILLAWONG	PROJECT No. 21-0075
					SC	ANDREW NGO	RPEQ 12329		WOLTERS CONSULTING GROUP (07) 2666 5200		DRAWING No. 109
						FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD					REVISION A

BCC DS
RECEIVED
 05/06/2026
APPLICATION REF
 A007043291

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)								
ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
McDONALD STREET	LOCAL ROAD	1.5 x 10 ⁵	3	30mm	100mm	100mm	250mm	480mm

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

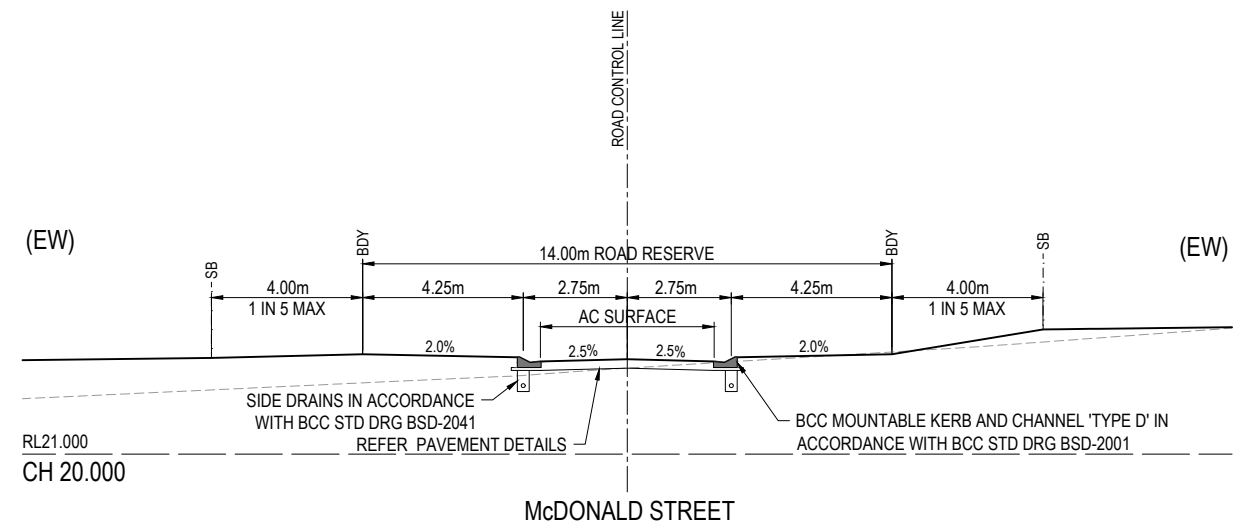
(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS



DATUM RL 5.0	
CUT (-) / FILL	2.163 2.027 1.378 0.812 0.396 0.234 -0.180 -0.615 -1.165 -1.548 -1.642 -2.078 -2.117 -2.259 -2.317 -2.296 -2.031 -1.712 -1.699 -1.762 -1.523 -1.335 -0.716 -0.317
LHS LIP LEVEL	#
RHS LIP LEVEL	23.420 23.451 23.683 24.163 24.690 24.690 24.978 25.059 25.191 25.192 25.173 24.648 24.497 23.402 21.437 19.747 18.793 15.993 15.159 14.021 13.711
DESIGN SURFACE	23.643 23.561 23.490 23.449 23.478 23.508 23.740 24.220 24.163 24.747 24.978 25.059 25.191 25.192 25.173 24.648 24.497 23.402 21.437 19.747 18.793 15.993 15.159 14.021 13.711
EXISTING SURFACE	21.481 21.533 22.112 22.637 23.081 23.275 23.920 24.835 25.912 26.526 26.700 27.269 27.309 27.432 26.964 26.794 25.433 23.149 21.446 20.555 17.516 16.493 14.737 14.027
CHAINAGES	0.000 3.300 8.000 13.455 18.000 20.000 28.000 40.000 53.184 60.000 63.232 74.360 80.000 100.000 103.184 120.000 140.000 153.184 160.000 180.000 185.961 195.961 200.000
HORIZONTAL CURVES	R15.000

REFER KERB RETURN LONGITUDINAL SECTIONS FOR DETAILS

McDONALD STREET



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	10.02.26	SC	SC	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
SC	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
SC	ANDREW NGO
	RPEQ 12329
	DATE 16.02.26



SCALE
1:100
1:200
1:1000
1:2000
1:100
1:200

CLIENT
UNILAND PTY LTD
ASSOCIATED CONSULTANT
WOLTERS CONSULTING GROUP
(07) 2666 5200

PROJECT NAME
PARADISE LAKES STAGE 3
PARADISE ROAD
WILLAWONG

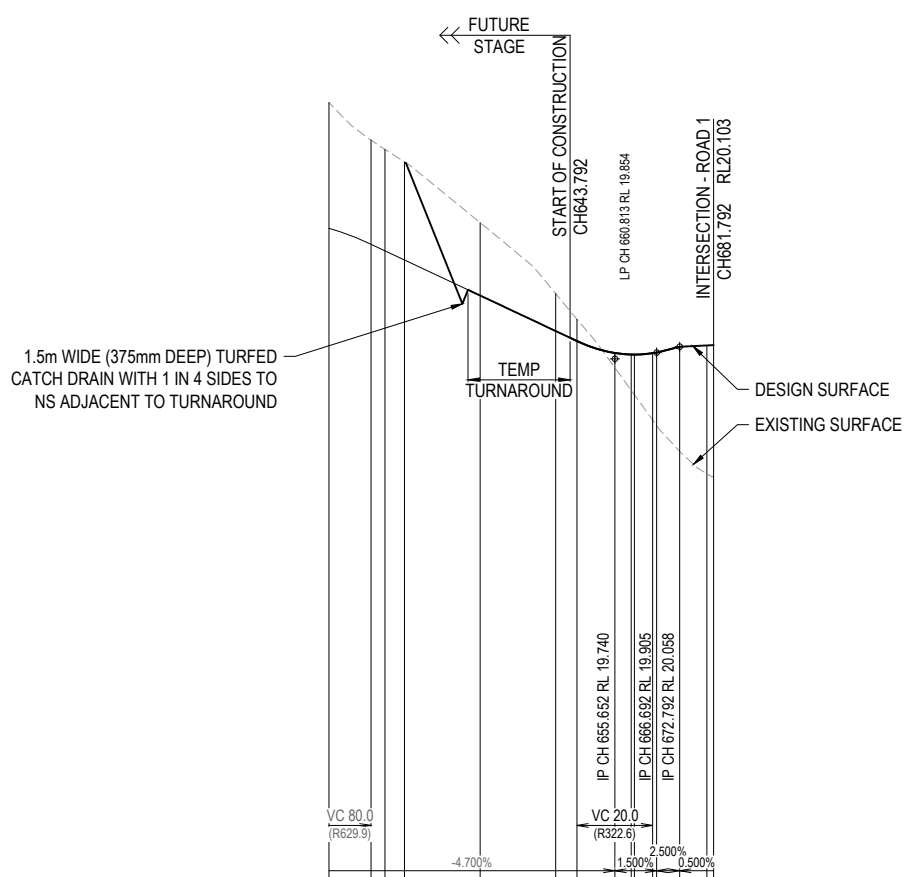
DRAWING TITLE		
McDONALD STREET		
LONGITUDINAL SECTION AND		
CROSS SECTIONS		
PROJECT No.	DRAWING No.	REVISION
21-0075	110	A

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)								
ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
LAKESHORE CRESCENT	LOCAL ROAD	1.5 x 10 ⁵	3	30mm	100mm	100mm	250mm	480mm

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

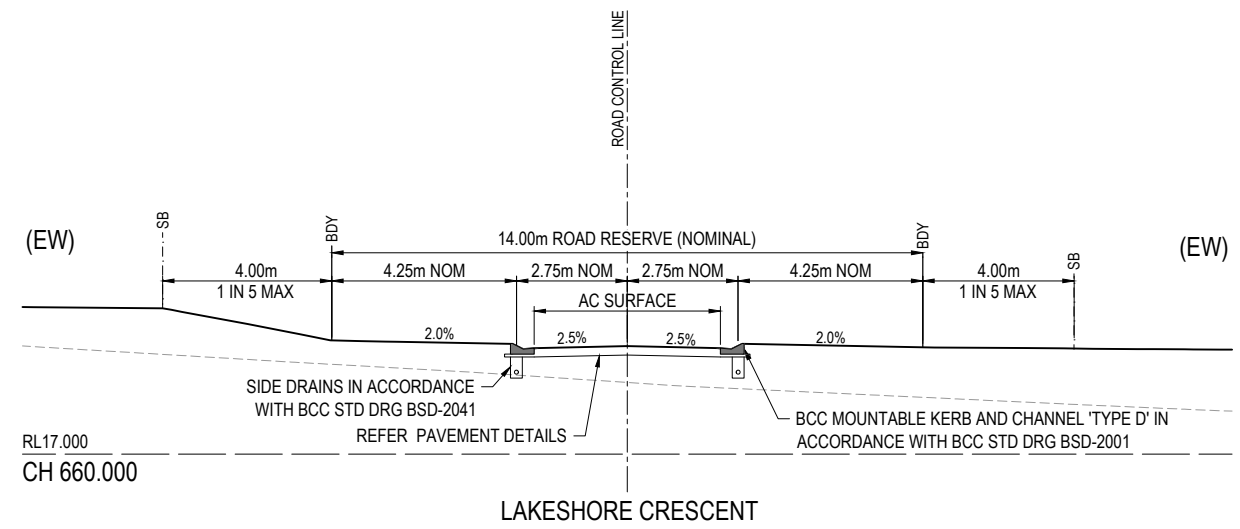
BCC DS
RECEIVED
 05/06/2026
APPLICATION REF
 A007043291

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

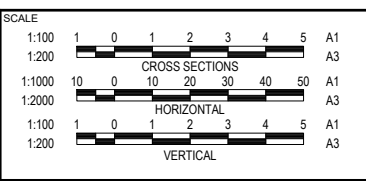


	DATUM RL 5.0														
CUT (-) / FILL	-3.323	-2.757	-2.682	-2.592	-1.928	-0.989	-0.572	0.389	0.950	1.062	1.767	1.926	2.766	3.392	3.461
LHS LIP LEVEL					21.358	20.418	20.152								
RHS LIP LEVEL					21.358	20.418	20.152								
DESIGN SURFACE	23.197	22.771	22.598	22.356	21.416	20.476	20.210	19.895	19.855	19.854	19.890	19.905	20.058	20.094	20.103
EXISTING SURFACE	26.520	25.528	25.280	24.948	23.344	21.465	20.782	19.506	18.905	18.792	18.123	17.979	16.703	16.642	
CHAINAGES	580.000	591.155	594.833	600.000	620.000	640.000	645.652	655.652	660.000	660.813	665.652	672.792	680.000	681.792	
HORIZONTAL CURVES	R-30.000														

REFER KERB RETURN LONGITUDINAL SECTIONS FOR DETAILS LAKESHORE CRESCENT



REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS
A	10.02.26	SC	SC	ISSUED FOR CONSTRUCTION	SC	ISSUED FOR CONSTRUCTION



CLIENT
UNILAND PTY LTD

ASSOCIATED CONSULTANT
WOLTERS CONSULTING GROUP
(07) 2666 5200

PROJECT NAME
PARADISE LAKES STAGE 3

PARADISE ROAD
WILLAWONG

DRAWING TITLE		
LAKESHORE CRESCENT LONGITUDINAL SECTION AND CROSS SECTIONS		
PROJECT No.	DRAWING No.	REVISION
21-0075	111	A

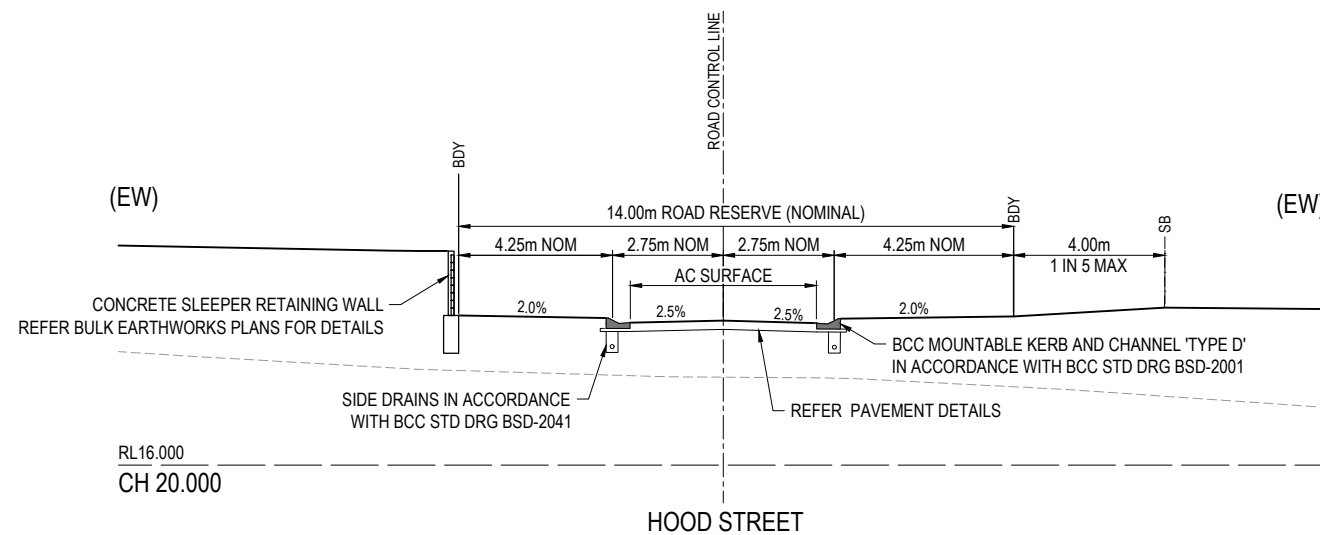
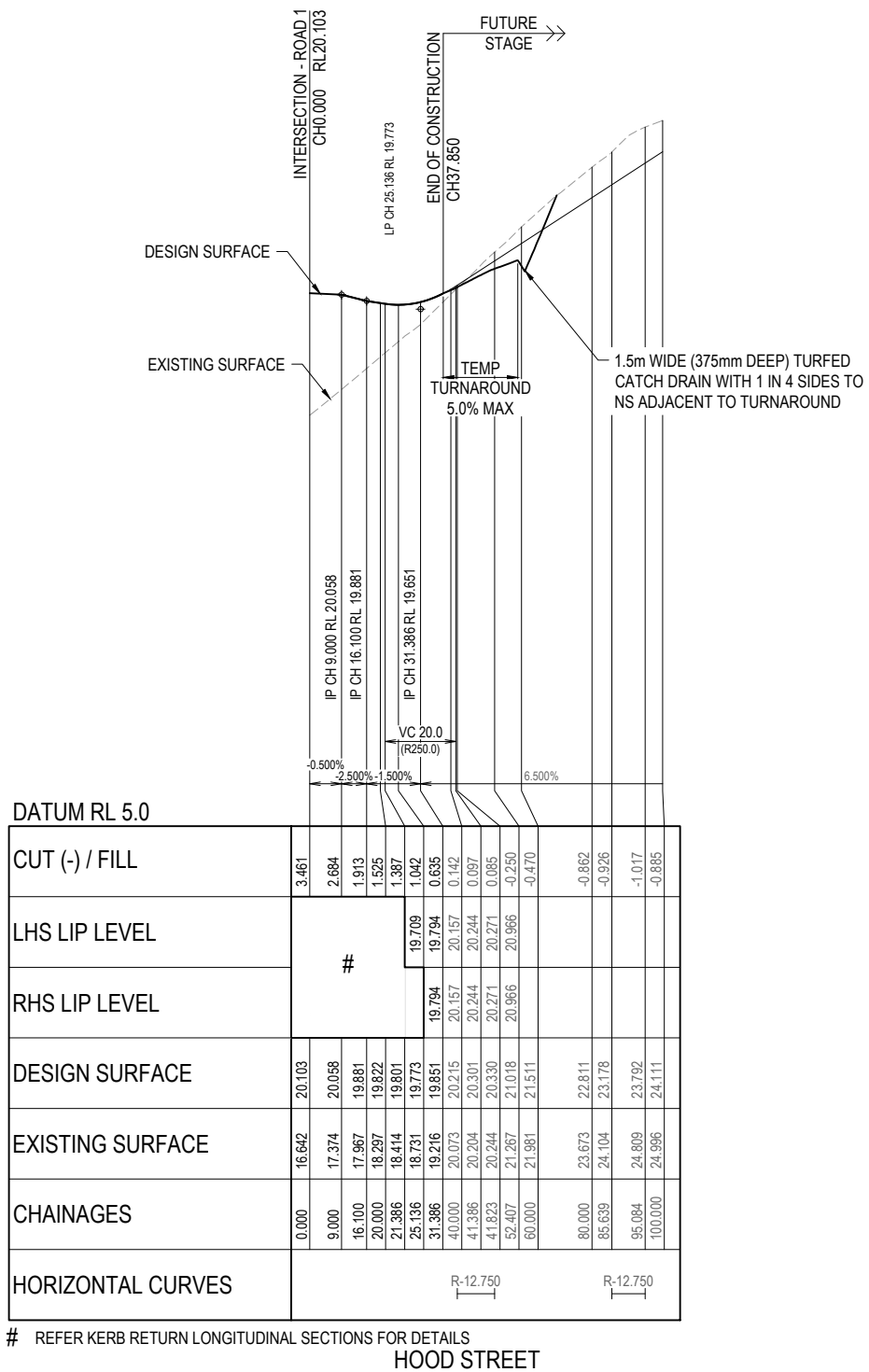
ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
HOOD STREET	LOCAL ROAD	1.5 x 10 ⁵	3	30mm	100mm	100mm	250mm	480mm

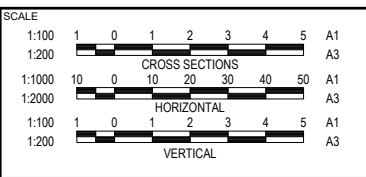
NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

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RECEIVED
05/06/2026
APPLICATION REF
A007043291



REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS
A	10.02.26	SC	SC	ISSUED FOR CONSTRUCTION	SC	ISSUED FOR CONSTRUCTION



CLIENT

UNILAND PTY LTD

ASSOCIATED CONSULTANT

WOLTERS CONSULTING GROUP
(07) 2666 5200

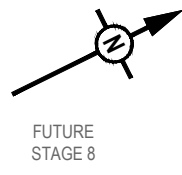
PROJECT NAME

PARADISE LAKES STAGE 3

PARADISE ROAD
WILLAWONG

DRAWING TITLE		
HOOD STREET LONGITUDINAL SECTION AND CROSS SECTIONS		
PROJECT No.	DRAWING No.	REVISION
21-0075	112	A

NOTE:
FUTURE STAGE 8 TO HAVE SEPARATE SEDIMENT BASIN AS PART OF CONSTRUCTION WORKS TO PREVENT SEDIMENT BEING DISCHARGED TO EXISTING BIO BASIN SHOWN



FUTURE STAGE 8

ALL TEMPORARY SWALES DIRECTING FLOWS TO BASIN TO BE FULLY TURFED. REFER EARTHWORKS PLANS FOR DETAILS.

PROVIDE 6.0m² ROCK PROTECTION TO INLET
D₅₀ = 200mm, 300mm THICK

● TW17.20
● BW16.90

SPILLWAY SETOUT

POINT	EASTING	NORTHING	RL
35	502515.541	6946586.982	13.000
36	502523.738	6946592.730	13.000
37	502528.160	6946592.195	13.765
38	502529.498	6946590.082	13.765
39	502528.091	6946585.856	13.000
40	502519.390	6946580.903	13.000
41	502515.769	6946581.389	13.600
42	502514.431	6946583.501	13.600

SUBSOIL PIPE SIZING

FILTER DETAILS	
FILTER AREA	850m ²
KSAT	180mm/hr
EDD	0.3m
FILTER DEPTH	0.8m
INFLOW	0.058m ³ /s
SUBSOIL DETAILS	
SIZE	100mm
NO.	24
GRADE	0.5%
CAPACITY	0.088m ³ /s
COLLECTOR PIPE	
SIZE	225mm
NO.	2
GRADE	0.5%
CAPACITY	0.064m ³ /s

NOTE:

THE BASIN DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT'S DRAWINGS AND DOCUMENTATION, SPECIFICALLY RELATING TO RETAINING WALLS, BARRIERS, PLANTING AND VEGETATION

BASIN FOREBAY SETOUT

POINT	EASTING	NORTHING
20	502567.148	6946625.716
21	502564.084	6946623.639
22	502554.491	6946637.794
23	502557.553	6946639.870

BASIN ACCESS SETOUT

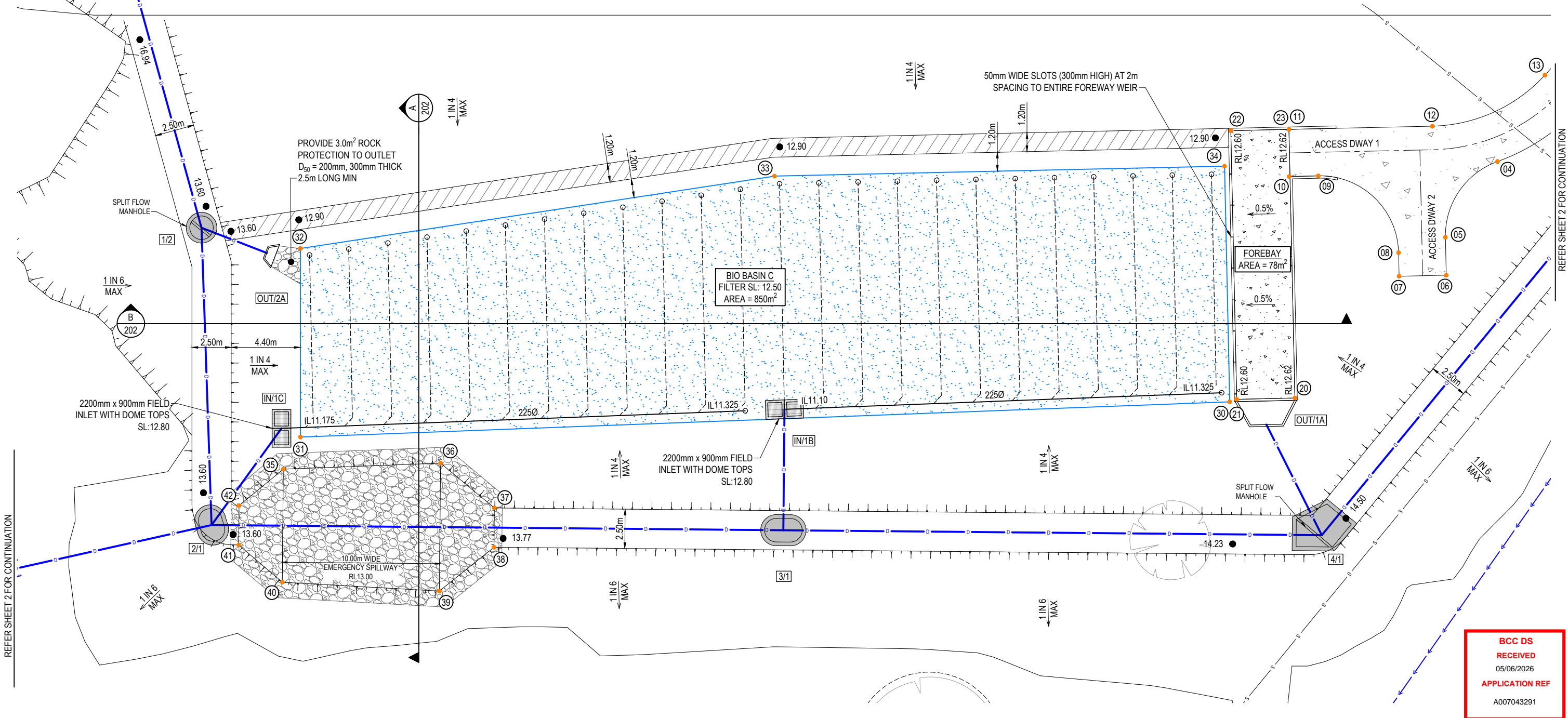
POINT	EASTING	NORTHING
01	502572.915	6946672.895
02	502575.874	6946672.401
03	502572.320	6946651.127
04	502569.812	6946645.355
05	502569.639	6946639.506
06	502570.996	6946637.505
07	502568.512	6946635.821
08	502567.671	6946637.063
09	502560.728	6946638.396
10	502559.199	6946637.361
11	502557.553	6946639.870
12	502565.109	6946644.991
13	502569.361	6946651.621

BASIN SETOUT

POINT	EASTING	NORTHING
30	502563.789	6946623.264
31	502515.344	6946589.293
32	502508.834	6946599.368
33	502531.673	6946619.605
34	502555.383	6946635.675

LEGEND

- PROPOSED BATTER LINE
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- PROPOSED SETOUT POINT
- PROPOSED FINISHED SURFACE LEVEL
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED SWALE DRAIN
- PROPOSED 100Ø SLOTTED SUB SOIL DRAINAGE PIPE WITH CLEAN-OUT POINT
- PROPOSED 225Ø UN-SLOTTED COLLECTOR PIPE
- PROPOSED BIO RETENTION FILTER AREA
- PROPOSED PLANTED BATTER - BY LANDSCAPERS
- PROPOSED MAINTENANCE BENCH
- PROPOSED ROCK SCOUR PROTECTION
- PROPOSED LOCKABLE RAIL TO COUNCIL STANDARDS



REFER SHEET 2 FOR CONTINUATION

REFER SHEET 2 FOR CONTINUATION

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05/06/2026
APPLICATION REF
A007043291

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	10.02.26	SC	SC	ISSUED FOR CONSTRUCTION	SC	ISSUED FOR CONSTRUCTION	1:125 1:250	UNILAND PTY LTD	PARADISE LAKES STAGE 3	BIO RETENTION BASIN LAYOUT PLAN SHEET 1 OF 2
					SC	DESIGN APPROVED ANDREW NGO RPEQ 12329 DATE 16.02.26		ASSOCIATED CONSULTANT WOLTERS CONSULTING GROUP (07) 2666 5200	PARADISE ROAD WILLAWONG	PROJECT No. 21-0075 DRAWING No. 200 REVISION A



LEGEND

- PROPOSED STAGE BOUNDARY
- PROPOSED SEWER MAIN
- EXISTING SEWER MAIN
- EXISTING SEWER TRUNK MAIN
- SEWER LOT CONTROL SURFACE LEVEL
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY
- FINISHED SURFACE CONTOUR
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED SWALE DRAIN
- EXISTING SWALE DRAIN
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER SERVICE POINT
- PROPOSED RETAINING WALL
- EXISTING RETAINING WALL
- EXISTING ELECTRICAL CABLE U/G
- EXISTING TELECOMMUNICATION CABLE U/G

RP DESCRIPTION
 LOT 500 ON SP 324965
DATUM LEVEL AND LOCATION:
 P.S.M. 59279 RL 18.006 AHD
 LOCATED IN DALMENY STREET

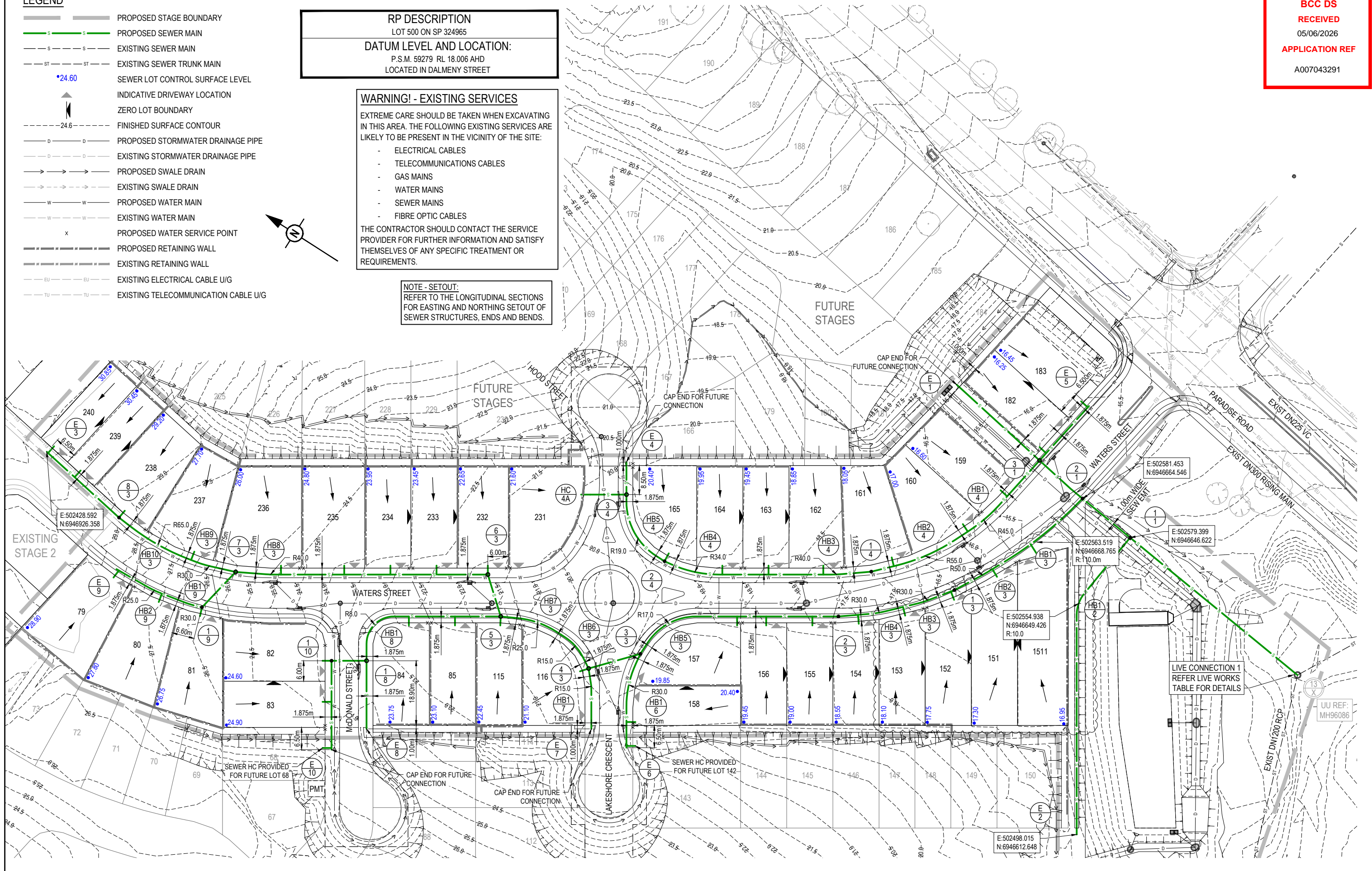
WARNING! - EXISTING SERVICES
 EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS
- FIBRE OPTIC CABLES

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

NOTE - SETOUT:
 REFER TO THE LONGITUDINAL SECTIONS FOR EASTING AND NORTHING SETOUT OF SEWER STRUCTURES, ENDS AND BENDS.

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RECEIVED
 05/06/2026
APPLICATION REF
 A007043291



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	14.09.23	KP	KP	ISSUED FOR CONSTRUCTION
B	12.08.25	SC	SC	OVERLAND FLOW UPDATED
C	24.09.25	SC	SC	SWALE DRAIN UPDATED
D	16.02.26	SC	SC	TEMPORARY SWALE UPDATED
E	12.05.26	SC	SC	LOT LAYOUT CHANGED

DRAWN	STATUS
ANDREW NGO	ISSUED FOR CONSTRUCTION



SCALE
1:500 10 5 0 10 20 A1 1:1000

CLIENT
UNILAND PTY LTD

PROJECT NAME
PARADISE LAKES STAGE 3

DRAWING TITLE
SEWERAGE LAYOUT PLAN

STRUCTURE / BEND / END NAME
STRUCTURE TYPE
STRUCTURE LID TYPE
STRUCTURE DROP TYPE
JUNCTION LINE
DEPTH TO HC
HC INVERT LEVEL
HC TYPE
HC LOT No
CH. FROM D/S STRUC / BEND

STRUCTURE TYPES
G = CONCRETE 0.900Ø
F = CONCRETE 1.200Ø
X = CONCRETE 1.200Ø
MS = PE 0.600Ø
MH DROP TYPES:
AS PER SEQ STD DRG SEQ-SEW-1303-1
MS DROP TYPES:
MS-A = 20mm DROP THROUGH BULB
MS-B = >750mm DROP INTO RISER
LID TYPES
B = NON-TRAFFICABLE
D = TRAFFICABLE
D(BD) = TRAFFICABLE WITH BOLT DOWN

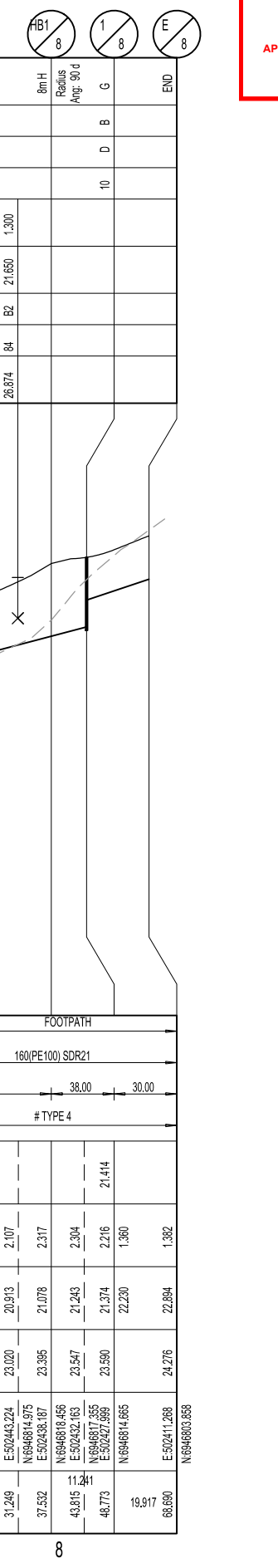
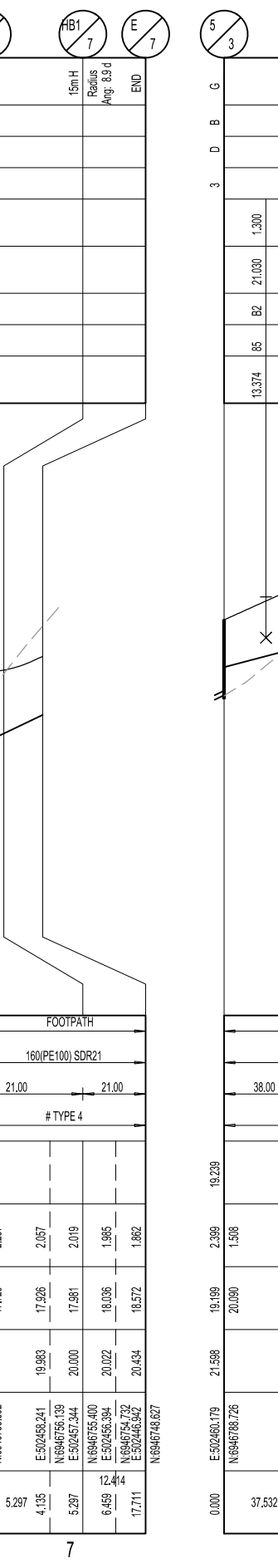
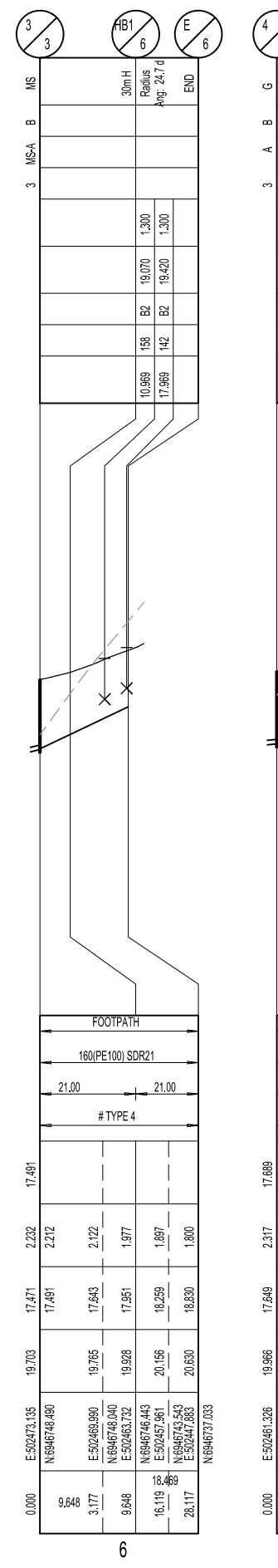
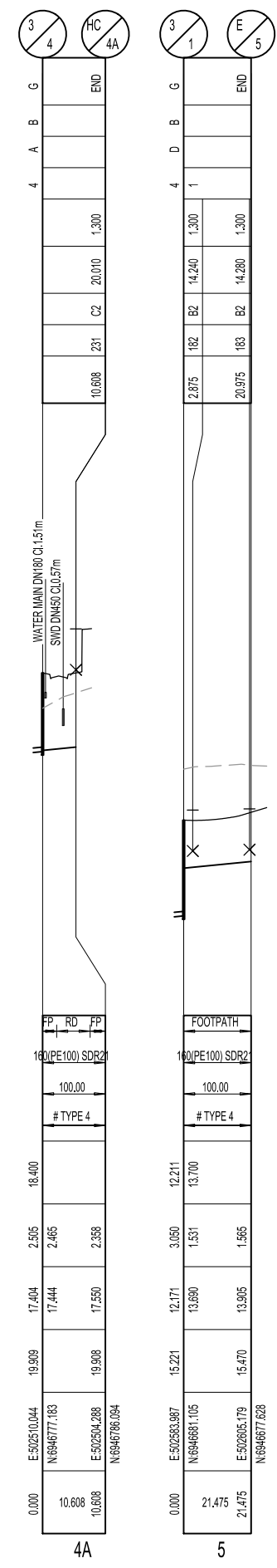
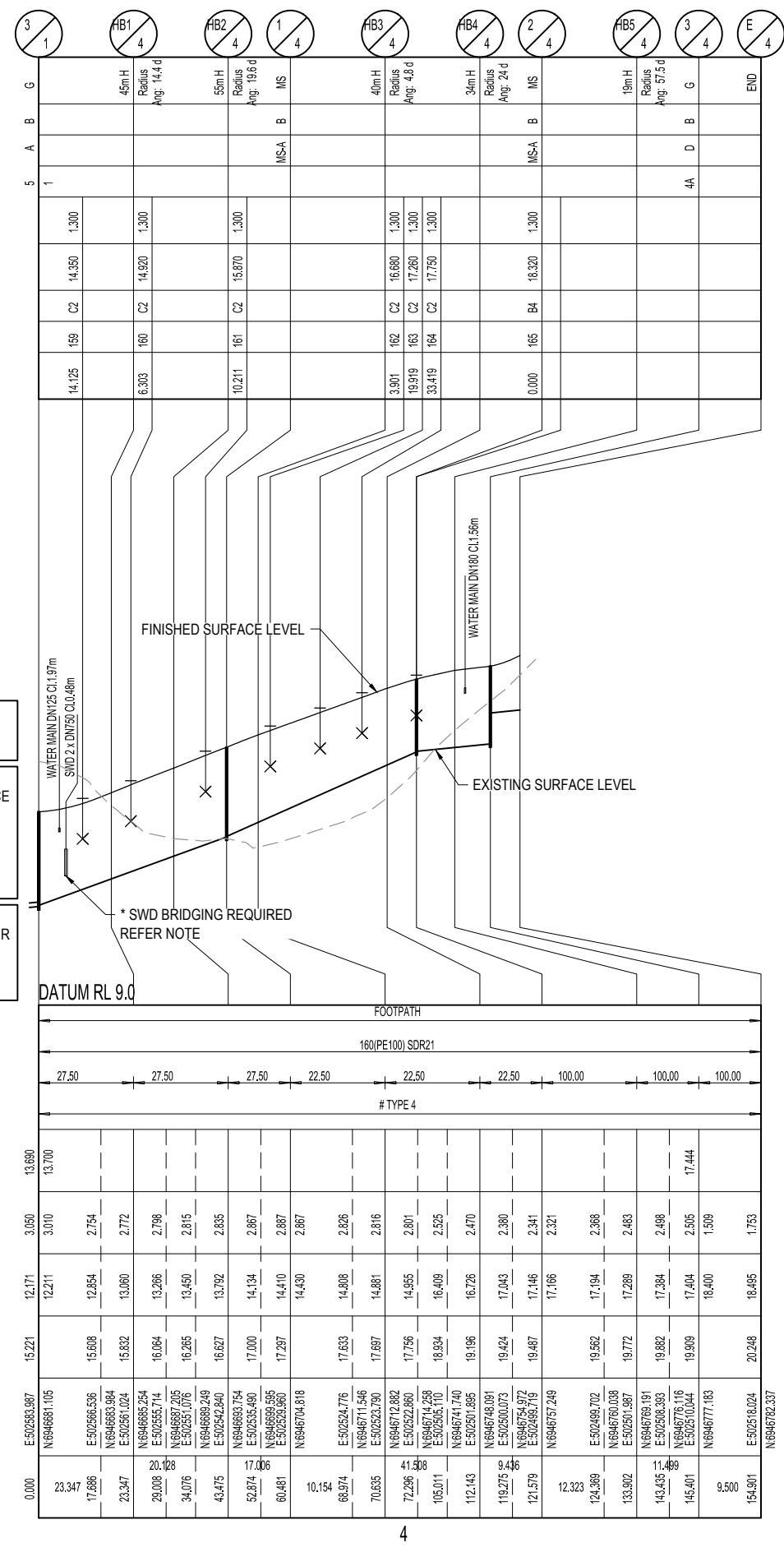
NOTE: PE LINING OF MANHOLES:
MAINTENANCE HOLES ≥ 1500Ø IN DIA OR ≥ 4.0m IN DEPTH,
REQUIRE PE LINED PROTECTIVE COATING

EMBEDMENT NOTE:
PIPE EMBEDMENT & TRENCHFILL SHALL BE IN ACCORDANCE
WITH SEQ-SEW-1200-2, 1201-1 TO 1201-5. AS PER URBAN
UTILITIES MAJOR WORKS TECHNICAL GUIDELINE, SECTION
6.5.1, TYPE 4 SUPPORT IS PROPOSED UNTIL FINAL
GEOTECHNICAL INVESTIGATIONS ARE COMPLETED AND
PROVIDED TO URBAN UTILITIES PRIOR TO CONSTRUCTION.

* STORMWATER BRIDGING NOTE:
WHERE A STORMWATER PIPE ≥ 600mm DIA CROSSES OVER
A SEWER, THE STORMWATER PIPE SHALL BE SUPPORTED
BY A BRIDGE STRUCTURE THAT SPANS THE SEWER
TRENCH. REFER PEAK URBAN STD DRG S-100.

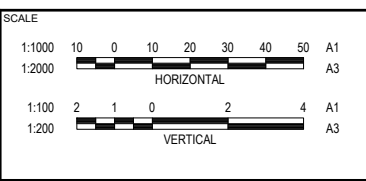
LAND USE
DIAMETER
GRADE
EMBEDMENT
JUNCTION INVERT LEVEL
DEPTH TO INVERT
SEWER INVERT LEVEL
DESIGN SURFACE LEVEL
SETOUT
RUNNING CHAINAGE

LINE



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	14.09.23	KP	KP	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
KP	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
KP	ANDREW NGO
	RPEQ 12329
	DATE 12.06.24
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



CLIENT
UNILAND PTY LTD
ASSOCIATED CONSULTANT
WOLTERS CONSULTING GROUP
(07) 2666 5200

PROJECT NAME
PARADISE LAKES STAGE 3
PARADISE ROAD
WILLAWONG

DRAWING TITLE
SEWERAGE
LONGITUDINAL SECTIONS
SHEET 3 OF 4
PROJECT No.
21-0075
DRAWING No.
306
REVISION
A