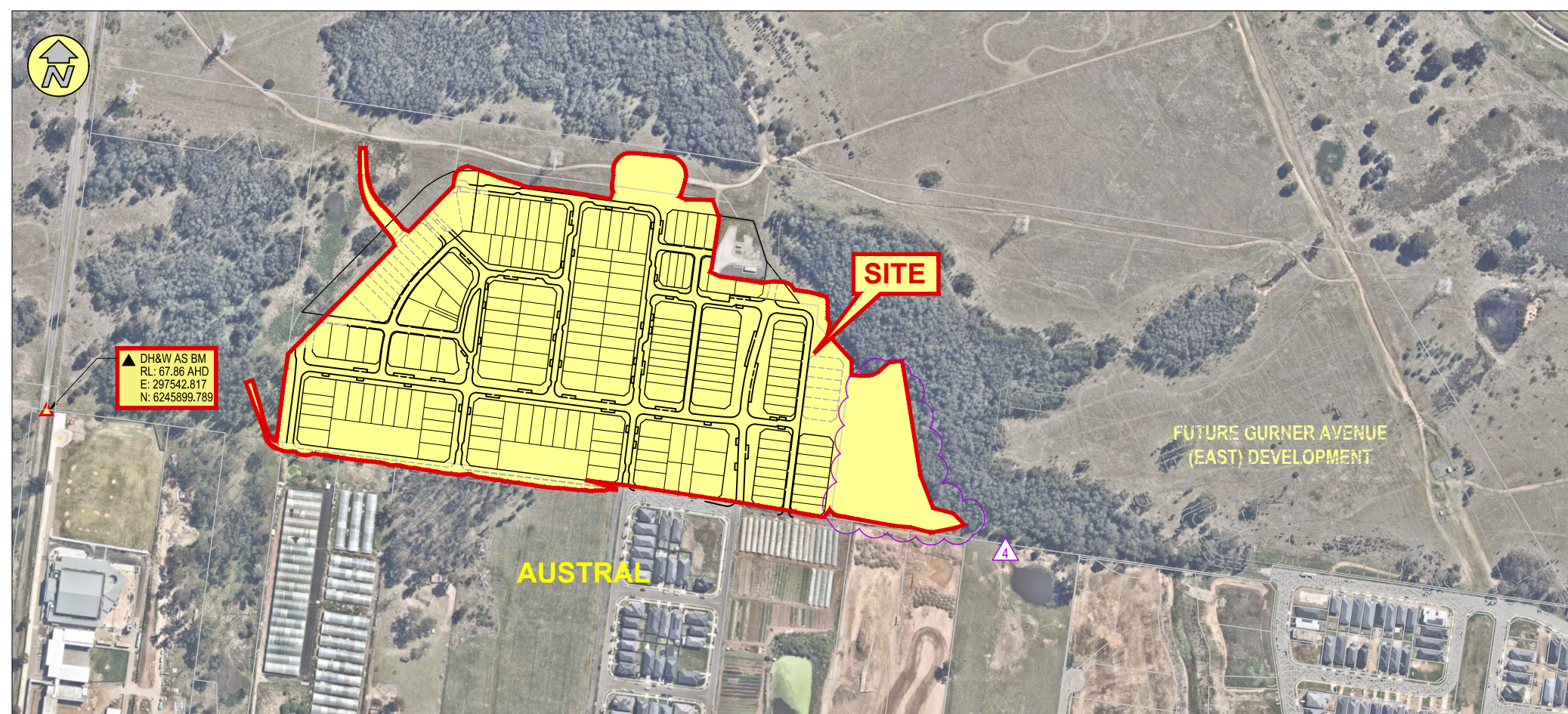


OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)

ISSUED FOR DEVELOPMENT APPLICATION



LOCALITY PLAN
N.T.S.

LGA LIVERPOOL COUNCIL
LOT 184 D.P.1237400

CLIENT:



DRAWING LIST

No.	SHEET TITLE
4	GENERAL
000	COVER SHEET
001	GENERAL ARRANGEMENT PLAN
002	SHEET LAYOUT PLAN
003	GENERAL NOTES & LEGEND
004	DEMOLITION PLAN
	SEDIMENT & EROSION CONTROL
101	SEDIMENT BASIN CATCHMENT PLAN
102	SOIL & WATER MANAGEMENT PLAN
	SITE REGRADING
201	SITE REGRADING PLAN - SHEET 01 OF 03
202	SITE REGRADING PLAN - SHEET 02 OF 03
203	SITE REGRADING PLAN - SHEET 03 OF 03
204	SITE SECTIONS - SHEET 01 OF 04
205	SITE SECTIONS - SHEET 02 OF 04
206	SITE SECTIONS - SHEET 03 OF 04
207	SITE SECTIONS - SHEET 04 OF 04
	ENGINEERING PLANS
301	ENGINEERING PLAN - SHEET 01 OF 03
302	ENGINEERING PLAN - SHEET 02 OF 03
303	ENGINEERING PLAN - SHEET 03 OF 03
	ROAD LONGITUDINAL SECTIONS
401	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.01
402	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.02
403	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.03 & 05
404	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.06 & 07
405	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.07 (CONT.) & 08
406	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.09, 10 & 11
407	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.12, 13, 14 & 15
408	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.16 & 17

OSL - GURNER AVENUE, AUSTRAL
ROAD & DRAINAGE DESIGN (WEST)



FILE: I:\DRAWING\PROJECTS\21-000381 - OSL - GURNER AVENUE, AUSTRALIA\08. MODEL\AUTOCAD\CIVIL\DWG\21-000381 - WEST.LD, DWG: 02.DWG, LAST SAVED BY: JED SWINEY



AMENDMENT DETAILS						STATUS		SCALE		CLIENT		PROJECT		DRAWING TITLE	
FIRST	DESIGN	DRAWN	CHECK	APPD.	DATE	FOR DEVELOPMENT APPLICATION		0 15 30 45 60 75 90 105 120		LANDCOM		OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)		SHEET LAYOUT PLAN	
1	AV	MZ	EF	EF	27/10/2021	ISSUED FOR DEVELOPMENT APPLICATION		SCALE 1:1500 (A1)		calibre		DISCLAIMER		PROJECT No.	
2	AV	MZ	RT	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT		SCALE 1:3000 (A3)		© 2022		ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY		DRAWING No.	
3	RT	JS	GM	SA	22/11/2022	COUNCIL AMENDMENTS				calibre group.com				STAGE	
4	RT	JS	GM	SA	25/11/2022	CLIENT AMENDMENTS								REVISION	
						BY: SINA ARBAZADEH MEng (Civil) MIEAust CPEng NER DATE: 25/11/2022								21-000381	
														002	
														DA	
														4	

GENERAL NOTES

GENERAL

- G1.

ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE WESTERN SYDNEY STREET DESIGN GUIDELINES AND LIVERPOOL CITY COUNCIL ENGINEERING CONSTRUCTION SPECIFICATIONS AND TO THE REQUIREMENTS OF THE CERTIFYING AUTHORITY.
- G2.

INSPECTIONS BY CERTIFYING AUTHORITY ARE REQUIRED AT THE FOLLOWING STAGES AND THE WORKS APPROVED PRIOR TO CONTINUANCE OF ANY FUTURE WORK:

(A) FOLLOWING INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES/MEASURES.

(B) PRIOR TO BACKFILLING PIPELINES, SUBSOIL DRAINS AND DAMS.

(C) PRIOR TO CASTING OF PITS AND OTHER CONCRETE STRUCTURES, INCLUDING KERB AND GUTTER BUT FOLLOWING PLACEMENT OF FOOTINGS, FORMWORK, AND REINFORCEMENT.

(D) PRIOR TO PLACEMENT OF SUB BASE AND ALL SUBSEQUENT PAVEMENT LAYERS, A PROOF ROLLER TEST OF EACH PAVEMENT LAYER IS REQUIRED.

(E) FORMWORKS PRIOR TO POURING CONCRETE IN PARKING AREA FOR FOOTPATH CROSSING AND OTHER ASSOCIATED WORK.

(F) PRIOR TO BACKFILLING PUBLIC UTILITY CROSSINGS IN ROAD RESERVES.

(G) FINAL INSPECTIONS AFTER ALL WORKS ARE COMPLETED AND 'WORKS AS EXECUTED' PLANS HAVE BEEN SUBMITTED TO COUNCIL.
- G3.

NO TREES ARE TO BE REMOVED UNLESS APPROVAL IS GRANTED BY COUNCIL'S LANDSCAPE COMPLIANCE OFFICER OR AS AUTHORISED BY DEVELOPMENT CONSENT.
- G4.

MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
- G5.

NO WORK IS TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER/S.
- G6.

VEHICULAR ACCESS AND ALL UTILITIES/SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- G7.

ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER.
- G8.

COUNCIL ENGINEERS HAVE DISCRETION TO VARY, AS CONSIDERED NECESSARY, THE ENGINEERING REQUIREMENTS IN RESPECT OF A PARTICULAR SUBDIVISION OR DEVELOPMENT HAVING REGARD TO THE SITE CONTEXT.

EARTHWORKS

- E1.

EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION TESTING RESULTS FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.
- E2.

COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 95% FOR SITE FILLING AND 100% FOR ROAD PAVEMENT SUBGRADES HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289.5.3.1 OR AS.1289.5.1.1. THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'. WHERE IT IS PROPOSED TO USE TEST METHOD AS1289.5.8.1 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS.
- E3.

THE SUITABLE QUALIFIED GEOTECHNICAL ENGINEER, SHALL HAVE A LEVEL 1 RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS', AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS BY WRITTEN NOTIFICATION.
- E4.

IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1(V):4(H), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE COUNCIL.
- E5.

ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50mm TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER FACE.
- E6.

PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL ON FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 14 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.
- E7.

THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PRODUCED BY LANDCOM.
- E8.

A MINIMUM 1m WIDE, CONTINUOUS STRIP OF COUCH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS & OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE, AND SHALL BE MAINTAINED AND REPLACED AS REQUIRED DURING THE CONSTRUCTION MAINTENANCE PERIOD.

CALIBRE GENERAL

- CG1.

SURVEY SOURCED FROM:
-SURVEYOR: PROJECT SURVEYORS
-D.T.M.: D04494-DETAIL-REV B-GDA2020 SURVEY DATED 22/09/2021
-BOUNDARY: D04494-STAGING PLAN 27 OCT 2021.dwg DATED 27 OCT 2021
- CG2.

CONTRACTOR IS TO ENSURE THAT ALL WORKS ASSOCIATED WITH PROPERTY BOUNDARIES ARE TO BE SET OUT OR VERIFIED BY A REGISTERED SURVEYOR
- CG3.

PIPES UP TO 750Ø SHALL BE CONSTRUCTED WITH SPIGOT AND SOCKET RUBBER RING JOINTS AND BE OF FIBRE REINFORCED CONCRETE WHICH SHALL CONFORM RESPECTIVELY TO THE REQUIREMENTS OF AS 4139 AND AS 4058. WHERE FIBRE REINFORCED CONCRETE PIPES ARE TO BE USED, A PROPRIETARY COLLAR IS TO BE APPLIED OVER THE PIPE JOINTS.
- CG4.

PIPES GREATER THAN 750Ø ARE TO BE CONSTRUCTED FROM SULPHATE RESISTANT CEMENT.

ROADWORKS

- R1.

SUBGRADES AND SUB BASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
- R2.

SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE).
- R3.

150 x 50 H.D. GALVANISED STEEL KERB OUTLETS TO BE PLACED IN ALL KERB TYPES ON LOW SIDE OF LOTS. PROVIDE SUITABLE ADAPTOR TO ALLOW CONNECTION OF 90mm DIAMETER STORMWATER PIPE.
- R4.

LIPLESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS AND WHERE REQUIRED BY COUNCIL.
- R5.

SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING ENDEVOUR ENERGY, NBN AND SYDNEY WATER
- R6.

PROPOSED UTILITIES AND SERVICES CROSSING EXISTING ROADS SHALL BE PROVIDED FOR USING A TRENCHLESS TECHNIQUE SO AS NOT TO DAMAGE THE EXISTING SURFACE. ALL SERVICE CONDUITS UNDER ROADS MUST BE LAID TO A MINIMUM DEPTH OF 750mm.
- R7.

CONCRETE FOOTPATH CONSTRUCTION MAY BE BONDED WITH COUNCIL PENDING COMPLETION OF UTILITY/SERVICES AND SURROUNDING DWELLINGS.
- R8.

ALL TEMPORARY ROADS MUST BE TEMPORARILY SEALED WITH A SINGLE COAT FLUSH SEAL.
- R9.

ALL PERMANENT ROADS MUST BE SEALED WITH A SINGLE COAT FLUSH SEAL AND 50mm OF AC TO BE APPLIED IN TWO 25mm THICK LAYERS. THE FINAL AC LAYER IS TO BE AC 10 AND MAY BE BONDED WITH COUNCIL AND PLACED FOLLOWING APPROVAL FROM COUNCIL.
- R10.

SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS1742.2 'TRAFFIC CONTROL DEVICES FOR GENERAL USE', RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM TO AS1906 'RETRO-REFLECTIVE MATERIALS AND DEVICES FOR ROAD TRAFFIC CONTROL PURPOSES'. ALL APRONS AND KERB FACE ON CENTRAL ISLANDS OF ROUNDABOUTS AND ALL OTHER ISLANDS TO BE DELINEATED BY REFLECTIVE WHITE MARKING. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE PLAN APPROVED BY THE LOCAL TRAFFIC COMMITTEE.
- R11.

ALL LOT AND HOUSE NUMBERS MUST BE STENCILLED ON KERB FACE.
- R12.

STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE CONTRACTOR.

STORMWATER

- S1.

ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED.
- S2.

ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BE BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- S3.

DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED TO ALL DOWNSTREAM PITS.
- S4.

ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS.
- S5.

ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 1.2-METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.
- S6.

CONCRETE IS TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- S7.

ALL INTER-ALLOTMENT DRAINAGE MUST HAVE A MINIMUM PIPE DIAMETER OF 150mm AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- S8.

ALL INTER-ALLOTMENT DRAINAGE LINES MUST BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS MUST BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.
- S9.

INTER-ALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SYDNEY WATER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTER-ALLOTMENT DRAINAGE LINES.
- S10.

1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORKS AS EXECUTED' DRAWINGS.
- S11.

ALL PLANS (BOTH DESIGN AND WAE) ARE TO CLEARLY DELINEATE THE EXTENT/LOCATION OF FLOOD LINES INCLUDING THE 5% AEP, 1% AEP AND PMF.
- S12.

ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
- S13.

PIT LINTELS ARE TO BE STENCILLED WITH APPLICABLE DISTINCTION STENCIL AVAILABLE FROM COUNCIL.
- S14.

CATCH DRAINS MUST BE CONSTRUCTED AS REQUIRED BY THE APPROVED PLANS OR THE PRINCIPAL CERTIFYING AUTHORITY.
- S15.

SOIL AND WATER MANAGEMENT PLANS ARE TO BE PREPARED FOR ALL DISTURBED SITES AND ADHERED TO AT ALL TIMES DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.

DIGITAL MODELS CREATED BY CALIBRE UNDER THIS COMMISSION ARE CREATED FOR THE PURPOSE OF THE PREPARATION OF DRAWINGS AND ESTIMATES OF QUANTITIES. INFORMATION CONTAINED IN THE DRAWINGS TAKES PRECEDENCE OVER THE DIGITAL MODEL UPON WHICH IT WAS BASED. USE OF DIGITAL MODELS, CREATED BY CALIBRE, BY OTHER PARTIES TO SET OUT WORKS OR FOR OTHER REASONS IS DONE ENTIRELY AT THE RISK OF THE PARTY SO USING THE DIGITAL MODEL

LEGEND

DESCRIPTION	PROPOSED	EXISTING	FUTURE
STORMWATER PIPELINE			
STORMWATER DRAINAGE PITS			
DRAINAGE LINE No. 3 DRAINAGE PIT No. 10			
CONCRETE HEADWALL			
SUBSOIL DRAIN			
150mm KERB AND GUTTER			
ROLL KERB AND GUTTER			
KERB ONLY			
EDGE STRIP			
MOUNTABLE KERB			
DISH CROSSING			
VEHICULAR CROSSING			
PEDESTRIAN RAMP			
EDGE OF BITUMEN			
ROAD PAVEMENT			
BENCHMARK			
BATTERS			
CONCRETE PATHWAY			
CONTOURS			
SITE REGRADING AREA			
SERVICE LINES SEWER, GAS, WATER, ELECTRICITY, RECYCLED WATER			
COMMUNICATION LINES TELSTRA, FIBRE OPTIC, NBN			
OVER HEAD LINES AND POLES			
SERVICE PITS TELECOM PIT, ACCESS CHAMBER, HYDRANT, STOP VALVE, AIR VALVE			
LIMIT OF ROAD CONSTRUCTION			
STAGE BOUNDARY			
FENCE POST AND RAIL FENCE SECURITY FENCE			
LOT NUMBERS			
TREES TO RETAIN WITHIN SITE TREES TO REMOVED WITHIN SITE			
RETAINING WALL			
ROCK WALL			
ROOF WATER OUTLET TO KERB			
ROOF WATER OUTLET TO BACK OF PIT			

FILE: I:\SYD\NAD\PROJECTS\21-000381 - OSL - GURNER AVENUE, AUSTRALIA\08_MODEL\AUTOCAD\Civil\DWG\21-000381 - WEST_L0-D0-03.DWG LAST SAVED BY: JED SWINNEY

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
	AV	MZ	EF	EF	27/10/2021	
1	AV	JS	GM/SA	EF	25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION
2	AV	MZ	RT	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT
3	RT	JS	GM	SA	22/11/2022	COUNCIL AMENDMENTS
4	RT	JS	GM	SA	25/11/2022	CLIENT AMENDMENTS

STATUS		FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:		BY: SINA ARBAZADEH	SIGN:
		MEng (Civil) MIEAust CPEng NER	DATE: 25/11/2022

SCALE	CLIENT

CLIENT

CLIENT
© 2022 calibregroup.com

PROJECT
OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE			
GENERAL NOTES & LEGEND			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	003	DA	4



LEGEND

- EXTENT OF WORKS
- TREE TO BE REMOVED
- TREE TO BE REMOVED
- TREES TO BE RETAINED
- TO BE REMOVED

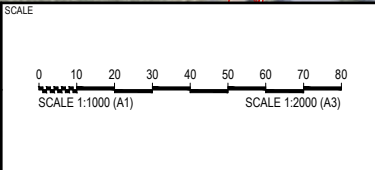


IMAGE SOURCED FROM NEARMAP DATED 21/10/2021

REV	AMENDMENT DETAILS				
	DESIGN	DRAWN	CHECK	APPD.	DATE
1	AV	MZ	EF	EF	27/10/2021
2	AV	JS	GM/SA	EF	25/11/2021
3	RT	JS	GM	SA	22/11/2022
4	RT	JS	GM	SA	25/11/2022

FOR
DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: SINA ARBABZADEH
MEng (Civil) MIEAust CPEng NER
SIGN:
DATE: 25/11/2022

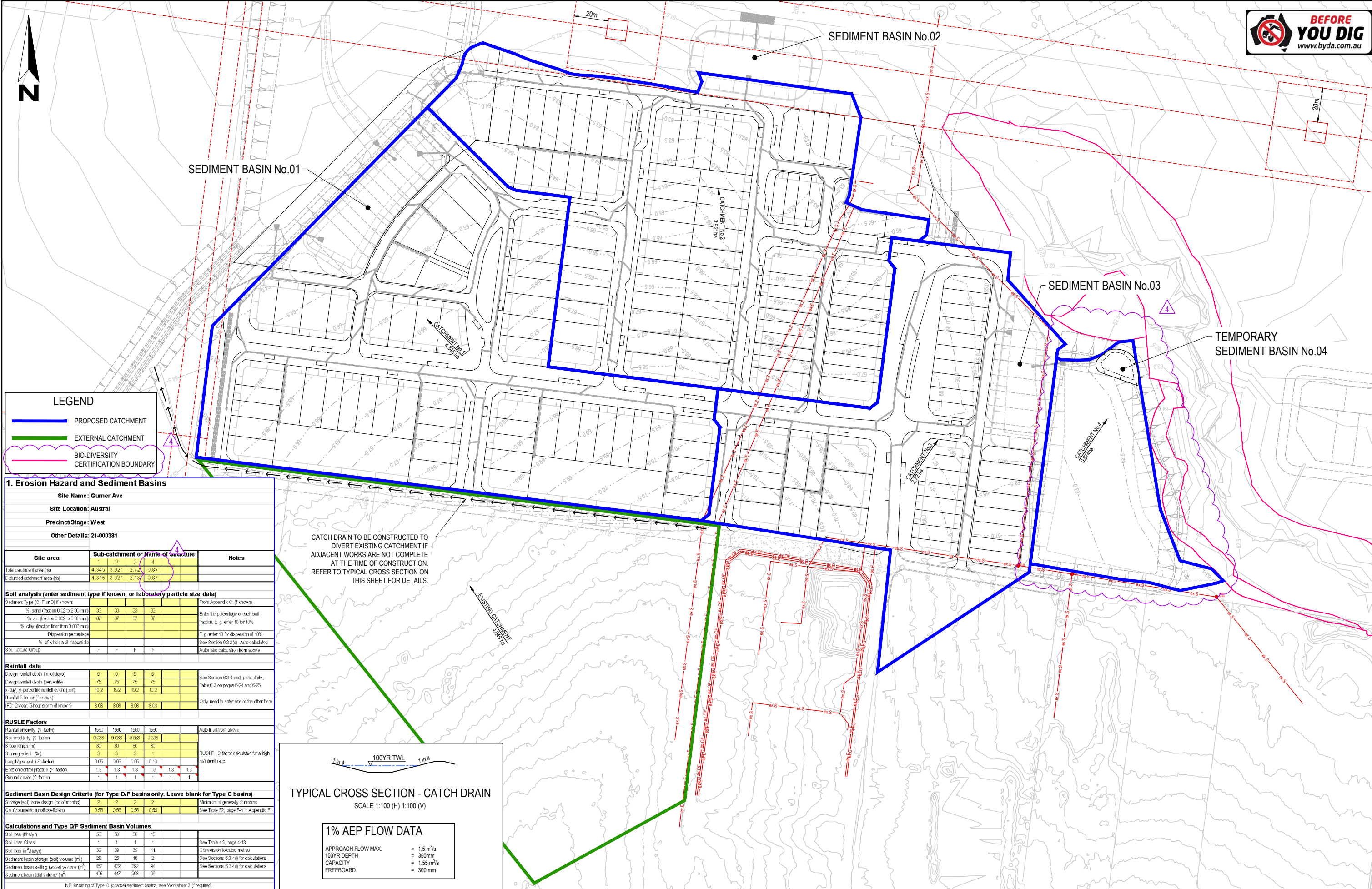


PROJECT
OSL - GURNER AVENUE, AUSTRAL
ROAD & DRAINAGE DESIGN (WEST)

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

DRAWING TITLE			
DEMOLITION PLAN			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	004	DA	4

FILE: H:\21-000381 - OSL - GURNER AVENUE, AUSTRALIA - MODEL\A\ROAD\CON\H\WEST\21-000381_WEST_L\DA-04.DWG LAST SAVED BY: ED SWINNEY

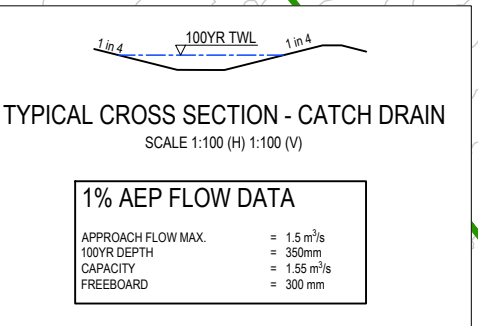


LEGEND

- PROPOSED CATCHMENT
- EXTERNAL CATCHMENT
- BIO-DIVERSITY CERTIFICATION BOUNDARY

1. Erosion Hazard and Sediment Basins					
Site Name: Gurner Ave					
Site Location: Austral					
Precinct/Stage: West					
Other Details: 21-000381					
Site area	Sub-catchment or Name of Structure				Notes
Total catchment area (ha)	1	2	3	4	
Detached catchment area (ha)	4.345	3.921	2.72	0.87	
	4.345	3.921	2.43	0.87	
Soil analysis (enter sediment type if known, or laboratory particle size data)					
Sediment Type (C, F or D) if known					From Appendix C, if known
% sand (fraction 0.02 to 2.00 mm)	33	33	33	33	Enter the percentage of each soil fraction. E.g. enter 10 for 10%
% silt (fraction 0.02 to 0.02 mm)	67	67	67	67	
% clay (fraction finer than 0.002 mm)					E.g. enter 10 for dispersion of 10%
Dispersion percentage					See Section 6.3.3(a) - Autocalculated
% of whole soil dispersible					Automatic calculation from above
Soil Texture Group	F	F	F	F	
Rainfall data					
Design rainfall depth (no. of days)	5	5	5	5	See Section 6.3.4 and, particularly, Table 6.3 on pages 6-24 and 6-25
Design rainfall depth (percentile)	75	75	75	75	
x day, y percentile rainfall event (mm)	16.2	19.2	19.2	19.2	
Rainfall R-factor (if known)					Only need to enter one or the other here
IPD 2-year 6-hour storm (if known)	8.08	8.08	8.08	8.08	
RUSLE Factors					
Rainfall erosivity (R-factor)	1500	1500	1500	1500	Autocalculated from above
Soil erodibility (K-factor)	0.038	0.038	0.038	0.038	
Slope length (m)	80	80	80	80	
Slope gradient (%)	3	3	3	1	RUSLE US factor calculated for a high rainfall event
Length gradient (LS-factor)	0.65	0.65	0.65	0.19	
Erosion control practice (P-factor)	1.3	1.3	1.3	1.3	
Ground cover (C-factor)	1	1	1	1	
Sediment Basin Design Criteria (for Type D/F basins only. Leave blank for Type C basins)					
Storage (soil) zone design (no. of months)	2	2	2	2	Minimum is generally 2 months
C _u (Volume runoff coefficient)	0.06	0.06	0.06	0.06	See Table P2, page F-4 in Appendix F
Calculations and Type D/F Sediment Basin Volumes					
Soil loss (t/ha/yr)	50	50	50	15	See Table 4.2, page 4-13
Soil loss Class	1	1	1	1	
Soil loss (t/ha/yr)	39	39	39	11	Conversion to cubic metres
Sediment basin storage (soil) volume (m ³)	28	25	16	2	See Section 6.3.4(b) for calculations
Sediment basin settling (water) volume (m ³)	407	422	262	94	See Section 6.3.4(b) for calculations
Sediment basin total volume (m ³)	435	447	278	96	
NB for sizing of Type C (poor) sediment basins, see Worksheet 3 (if required)					

CATCH DRAIN TO BE CONSTRUCTED TO DIVERT EXISTING CATCHMENT IF ADJACENT WORKS ARE NOT COMPLETE AT THE TIME OF CONSTRUCTION. REFER TO TYPICAL CROSS SECTION ON THIS SHEET FOR DETAILS.



AMENDMENT DETAILS					
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROD.	DATE
1	AV	MZ	EF	EF	27/10/2021
2	AV	MZ	RT	EF	29/07/2022
3	RT	JS	GM	SA	22/11/2022
4	RT	JS	GM	SA	25/11/2022

AMENDMENT DETAILS		AMENDMENT DETAILS	
ISSUED FOR DEVELOPMENT APPLICATION	27/10/2021	ISSUED FOR COUNCIL AMENDMENT	29/07/2022
COUNCIL AMENDMENTS	22/11/2022	COUNCIL AMENDMENTS	22/11/2022
COUNCIL AMENDMENTS	25/11/2022	COUNCIL AMENDMENTS	25/11/2022

FOR DEVELOPMENT APPLICATION

STATUS: **FOR DEVELOPMENT APPLICATION**

AUTHORISED FOR ISSUE:

BY: SINA ARBAZADEH
MEng (Civil) MIEAust CPEng NER

SIGN: *Sina Arbazadeh*

DATE: 25/11/2022

SCALE

0 10 20 30 40 50 60 70 80

SCALE 1:1000 (A1)

SCALE 1:2000 (A3)

CLIENT

LANDCOM

calibre

© 2022 calibregroup.com

PROJECT

OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)

DISCLAIMER

ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE

SEDIMENT BASIN CATCHMENT PLAN

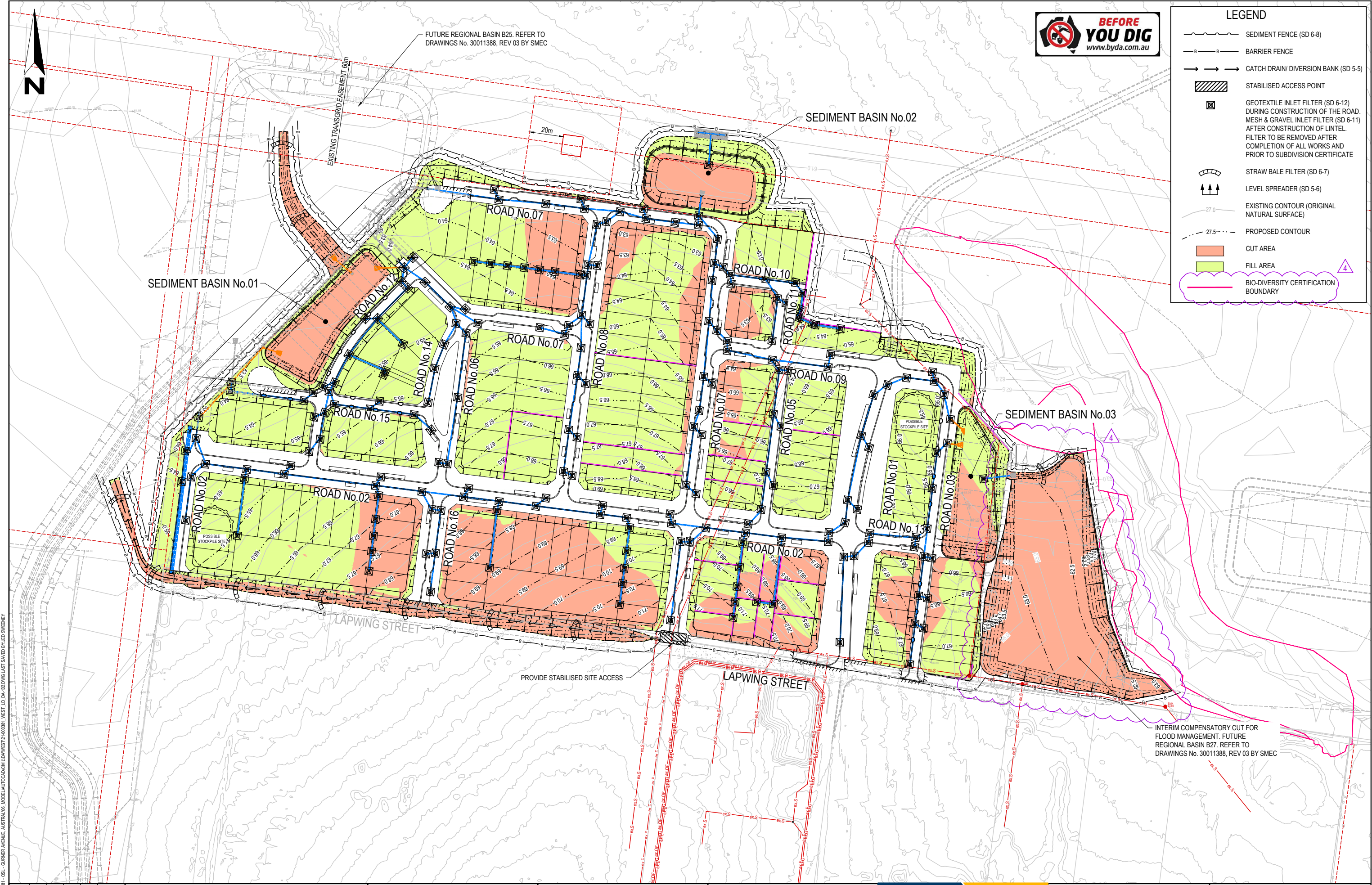
PROJECT No. 21-000381

DRAWING No. 101

STAGE DA

REVISION 4

FILE: H2121-000381 - OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST).LXD (A1) DING LAST SAVED BY: SINA ARBAZADEH



- LEGEND**
- SEDIMENT FENCE (SD 6-8)
 - BARRIER FENCE
 - CATCH DRAIN/ DIVERSION BANK (SD 5-5)
 - STABILISED ACCESS POINT
 - GEOTEXTILE INLET FILTER (SD 6-12)
DURING CONSTRUCTION OF THE ROAD.
MESH & GRAVEL INLET FILTER (SD 6-11)
AFTER CONSTRUCTION OF LINTEL.
FILTER TO BE REMOVED AFTER
COMPLETION OF ALL WORKS AND
PRIOR TO SUBDIVISION CERTIFICATE
 - STRAW BALE FILTER (SD 6-7)
 - LEVEL SPREADER (SD 5-6)
 - EXISTING CONTOUR (ORIGINAL
NATURAL SURFACE)
 - PROPOSED CONTOUR
 - CUT AREA
 - FILL AREA
 - BIO-DIVERSITY CERTIFICATION
BOUNDARY

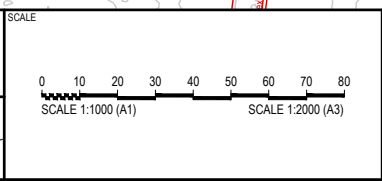
FILE: I:\STANDARD\PROJECTS\21-000381_OSL - GURNER AVENUE, AUSTRALIA\08_MODEL\AUTOCAD\DWG\WEST12-000381_WEST_12.DWG LAST SAVED BY: JED SWINEY

AMENDMENT DETAILS					
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE
1	AV	MZ	EF	EF	27/10/2021
2	AV	JS	GM/SA	EF	25/11/2021
3	RT	JS	GM	SA	22/11/2022
4	RT	JS	GM	SA	25/11/2022

**FOR
DEVELOPMENT APPLICATION**

STATUS

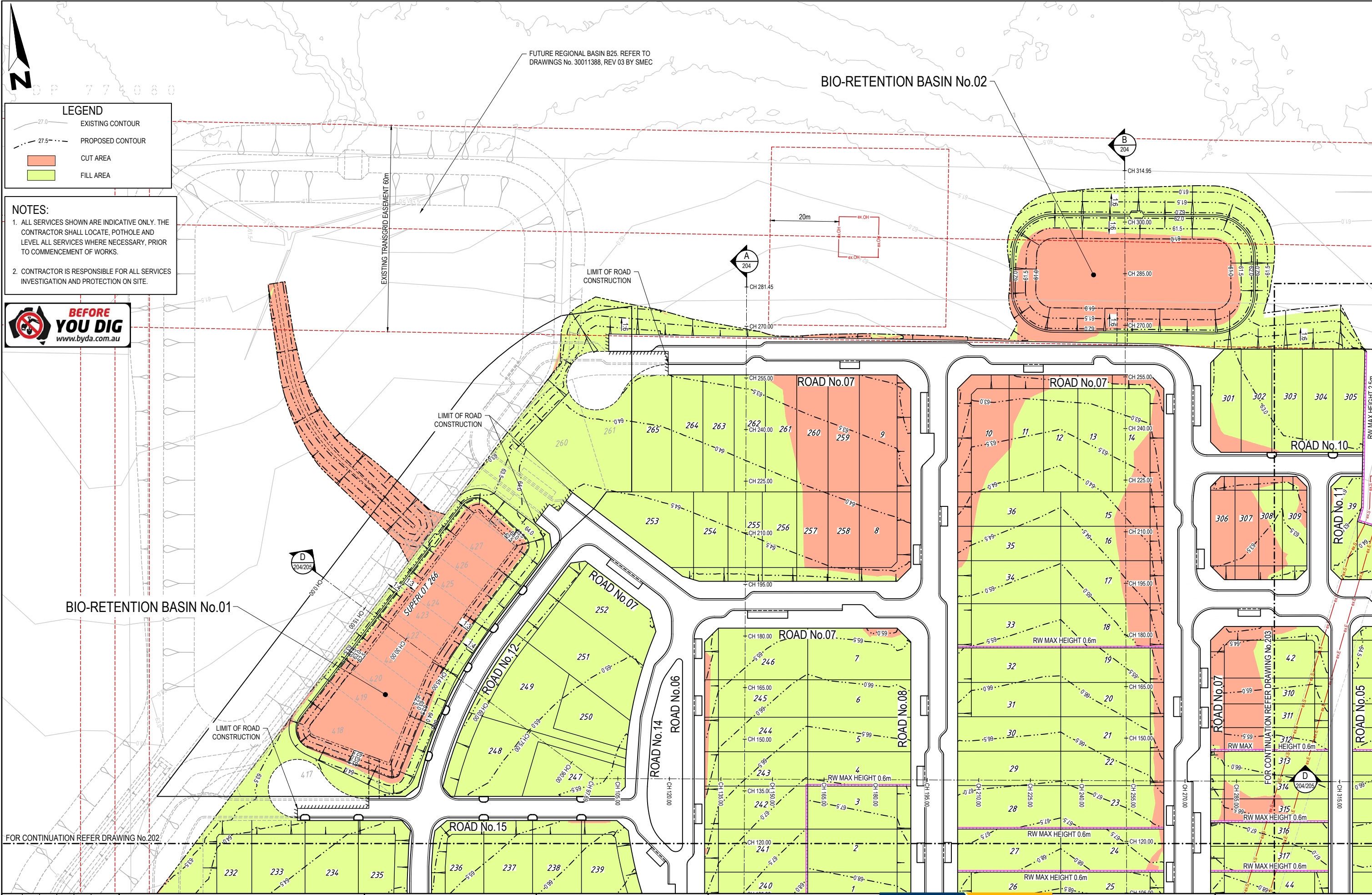
AUTHORISED FOR ISSUE:
BY: SINA ARBAZADEH SIGN: *Sina Arbazadeh*
MEng (Civil) MIEAust CPEng NER
DATE: 25/11/2022



PROJECT
**OSL - GURNER AVENUE, AUSTRAL
ROAD & DRAINAGE DESIGN (WEST)**

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

DRAWING TITLE			
SOIL & WATER MANAGEMENT PLAN			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	102	DA	4



LEGEND

- 27.0 — EXISTING CONTOUR
- - - 27.5 - - - PROPOSED CONTOUR
- CUT AREA
- FILL AREA

NOTES:

1. ALL SERVICES SHOWN ARE INDICATIVE ONLY. THE CONTRACTOR SHALL LOCATE, POTHOLE AND LEVEL ALL SERVICES WHERE NECESSARY, PRIOR TO COMMENCEMENT OF WORKS.

2. CONTRACTOR IS RESPONSIBLE FOR ALL SERVICES INVESTIGATION AND PROTECTION ON SITE.



AMENDMENT DETAILS				
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.
1	AV	MZ	EF	EF
2	AV	JS	GM/SA	EF
3	RT	JS	GM	SA
4	RT	JS	GM	SA

FOR DEVELOPMENT APPLICATION

STATUS

AUTHORISED FOR ISSUE:

BY: SINA ARBAZADEH
MEng (Civil) MIEAust CPEng NER

SIGN: *Sina Arbazadeh*

DATE: 25/11/2022

SCALE

0 5 10 15 20 25 30 35 40

SCALE 1:500 (A1)

SCALE 1:1000 (A3)

CLIENT

© 2022

calibregroup.com

PROJECT

OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)

DISCLAIMER

ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE

SITE REGRADING PLAN - SHEET 01 OF 03

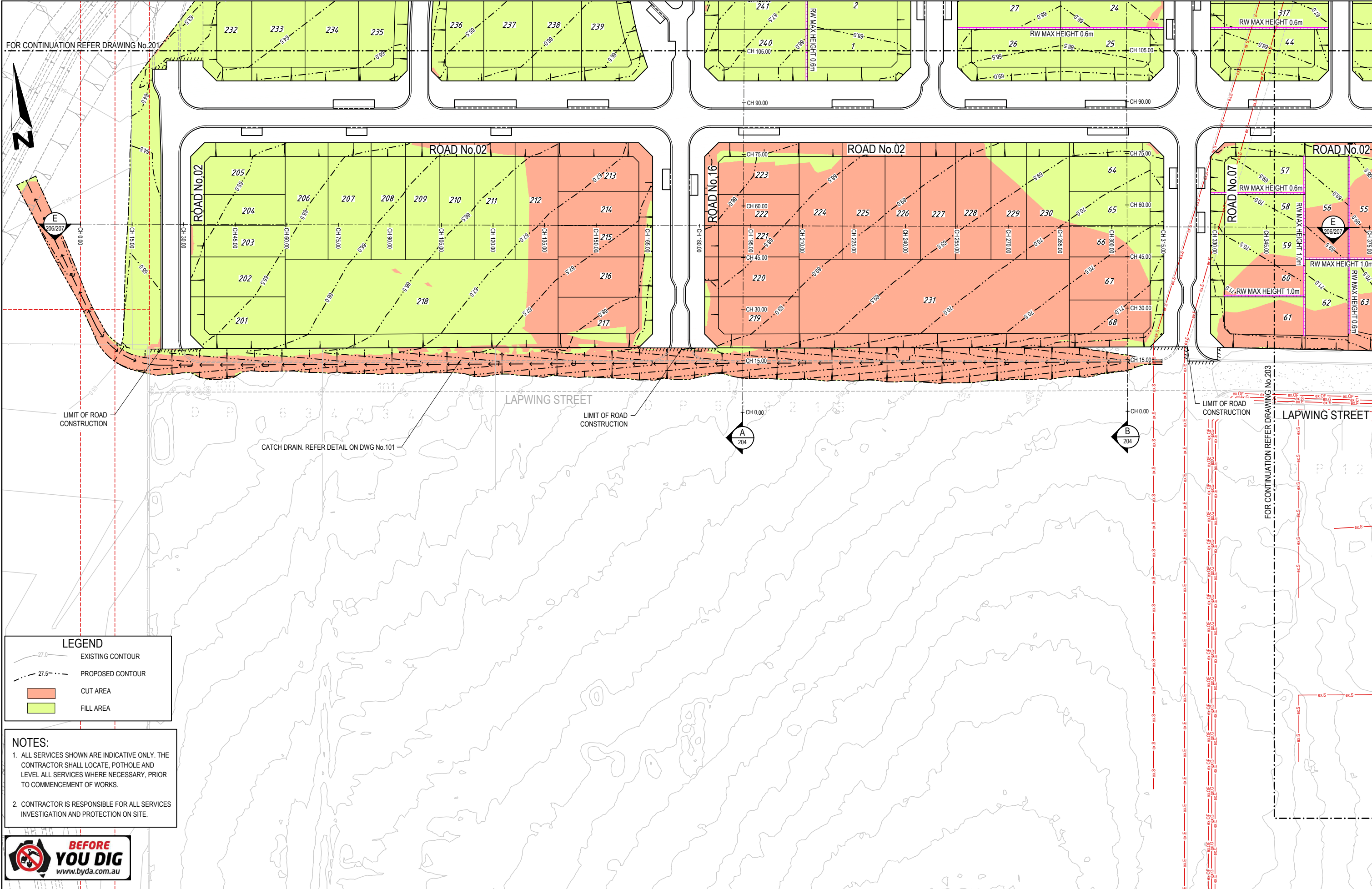
PROJECT No. 21-000381

DRAWING No. 201

STAGE DA

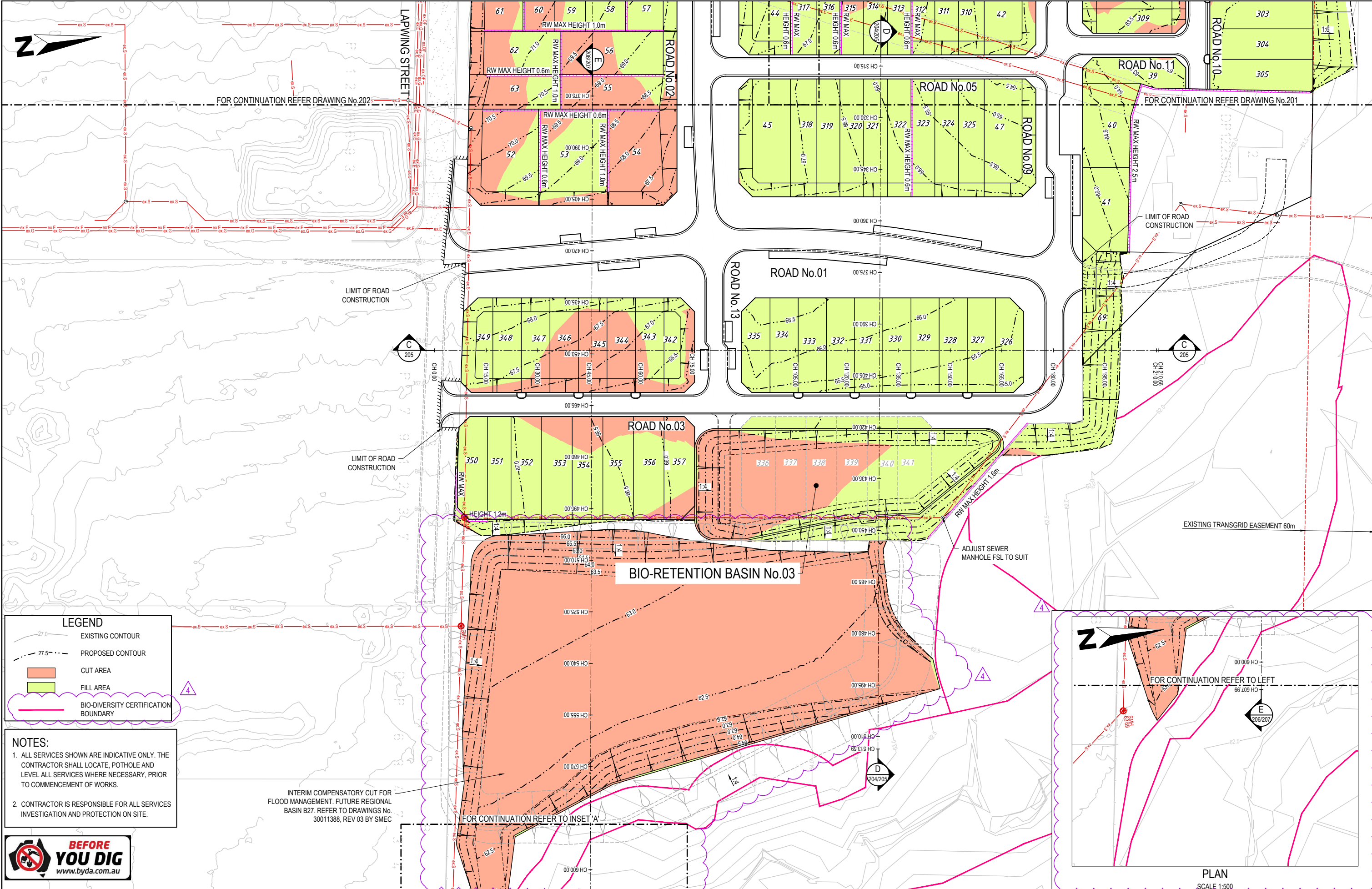
REVISION 4

FILE: I:\DRAWING\PROJECTS\21-000381 - OSL - GURNER AVENUE, AUSTRAL\06. MODEL\AUTOCAD\DWG\WEST12-000381 - WEST.LD.DWG LAST SAVED BY: JED SWENEY



FIRST ISSUE						DESIGN						DRAWN						CHECK						APPD.						DATE						AMENDMENT DETAILS												STATUS												SCALE												CLIENT												PROJECT												DRAWING TITLE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
1						AV						MZ						EF						EF						27/10/2021						ISSUED FOR DEVELOPMENT APPLICATION												FOR DEVELOPMENT APPLICATION												0 5 10 15 20 25 30 35 40												LANDCOM												OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)												SITE REGRADING PLAN - SHEET 02 OF 03																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2						AV						JS						GM/SA						EF						25/11/2021						ISSUED FOR COUNCIL AMENDMENT																								SCALE 1:500 (A1)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

FILE: I:\DRAWING\PROJECTS\21-000381 - OSL - GURNER AVENUE, AUSTRAL\08. MODEL\AUTOCAD\CIVIL\DWG\21-000381 - WEST.LD. 24-02-2022 DWG LAST SAVED BY JED SWINEY



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CUT AREA
- FILL AREA
- BIO-DIVERSITY CERTIFICATION BOUNDARY

NOTES:

1. ALL SERVICES SHOWN ARE INDICATIVE ONLY. THE CONTRACTOR SHALL LOCATE, POTHOLE AND LEVEL ALL SERVICES WHERE NECESSARY, PRIOR TO COMMENCEMENT OF WORKS.

2. CONTRACTOR IS RESPONSIBLE FOR ALL SERVICES INVESTIGATION AND PROTECTION ON SITE.



AMENDMENT DETAILS					
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE
1	AV	MZ	EF	EF	27/10/2021
2	AV	MZ	RT	EF	29/07/2022
3	RT	JS	GM	SA	22/11/2022
4	RT	JS	GM	SA	25/11/2022

FOR DEVELOPMENT APPLICATION

STATUS

AUTHORISED FOR ISSUE:

BY: SINA ARBAZADEH
MEng (Civil) MIEAust CPEng NER

SIGN: *[Signature]*

DATE: 25/11/2022

SCALE

0 5 10 15 20 25 30 35 40

SCALE 1:500 (A1)

SCALE 1:1000 (A3)

CLIENT

LANDCOM

calibre

© 2022

calibregroup.com

PROJECT

OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)

DISCLAIMER

ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE

SITE REGRADING PLAN - SHEET 03 OF 03

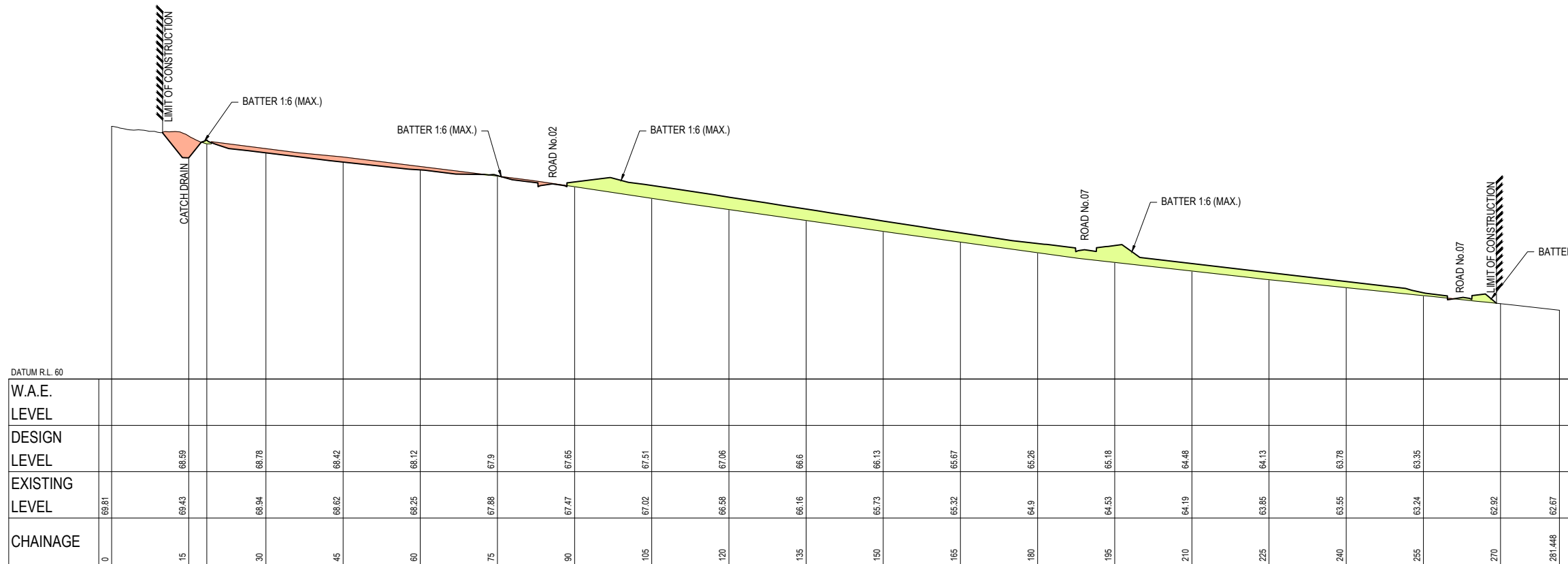
PROJECT No. 21-000381

DRAWING No. 203

STAGE DA

REVISION 4

FILE: H:\21-000381 - OSL - GURNER AVENUE, AUSTRALIA\3. MODEL\A\TOD\CON\CON\WEST12-000381_WEST_LD.DWG LAST SAVED BY: ED SWIRNEY



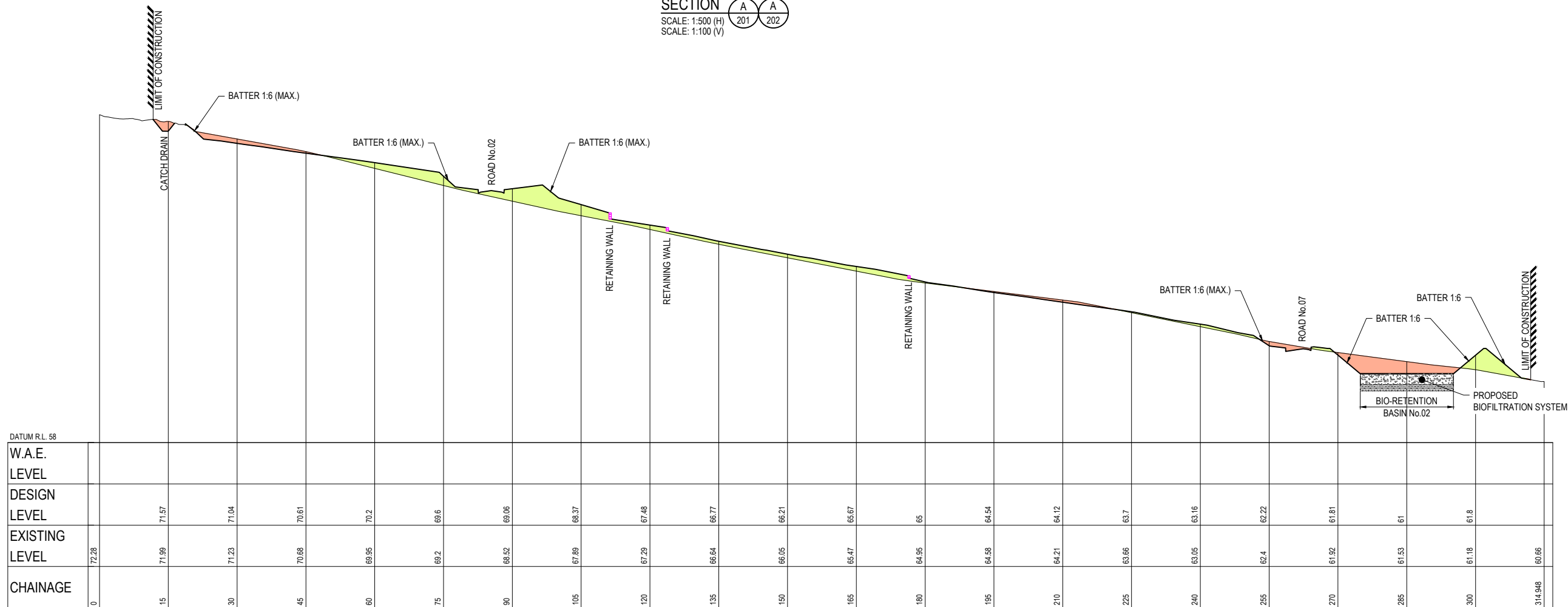
LEGEND

- EXISTING LEVEL
- DESIGN LEVEL
- CUT AREA
- FILL AREA
- RETAINING WALL

NOTES:

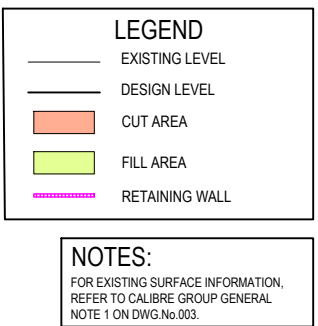
FOR EXISTING SURFACE INFORMATION, REFER TO CALIBRE GROUP GENERAL NOTE 1 ON DWG.No.003.

SECTION A-A
SCALE: 1:500 (H)
SCALE: 1:100 (V)



SECTION B-B
SCALE: 1:500 (H)
SCALE: 1:100 (V)

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS FOR DEVELOPMENT APPLICATION AUTHORISED FOR ISSUE: BY: SINA ARBAZADEH SIGN: <i>Sina Arbazadeh</i> MEng (Civil) MIEAust CPEng NER DATE: <i>25/11/2022</i>	SCALE 0 5 10 15 20 25 30 35 40 SCALE 1:500 (A1) 0 1 2 3 4 5 6 7 8 SCALE 1:100 (A1) SCALE 1:1000 (A3) SCALE 1:200 (A3)	CLIENT 		PROJECT OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST) DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY	DRAWING TITLE SITE SECTIONS - SHEET 01 OF 04 PROJECT No. 21-000381 DRAWING No. 204 STAGE DA REVISION 4
	1	AV	MZ	EF	EF	27/10/2021	ISSUED FOR DEVELOPMENT APPLICATION						
	2	AV	MZ	RT	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT						
	3	RT	JS	GM	SA	22/11/2022	COUNCIL AMENDMENTS						
	4	RT	JS	GM	SA	25/11/2022	CLIENT AMENDMENTS						



CHAINAGE	EXISTING LEVEL	DESIGN LEVEL	W.A.E. LEVEL
0	62.78		
15	63.13		
30	63.37	62.3	
45	63.64	63.79	
60	64.11	64.72	
75	64.63	65.01	
90	65.12	65.28	
97.686	65.36	65.44	
105	65.5	65.7	
120	65.73	65.89	
135	65.93	66.29	
150	66.19	66.73	
165	66.35	66.99	
180	66.54	66.91	
195	66.68	66.64	
210	66.75	66.9	
225	66.72	66.96	
240	66.64	66.89	
255	66.52	66.64	
270	66.35	66.19	
285	66.14	66.16	
300	65.98	66.05	
315	65.76	65.85	
330	65.56	66.1	
345	65.36	66.3	
360	65.13	66.12	

FILE:H:\21\21-000381 - OSL - GURNER AVENUE, AUSTRAL\06_MODEL\AUTOCAD\CIVIL\DA\WEST121-000381_WEST_LD_DA-205.DWG LAST SAVED BY: MONA.ZAHABI

FIRST ISSUE						AMENDMENT DETAILS						STATUS		SCALE		CLIENT		PROJECT		DRAWING TITLE			
DESIGN	DRAWN	CHECK	APPR.	DATE																			
AV	MZ	EF	EF	27/10/2021								FOR DEVELOPMENT APPLICATION		0 5 10 15 20 25 30 35 40 SCALE 1:500 (A1) SCALE 1:1000 (A3)						OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)			
1	AV	JS	GM/SA	EF	25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION						AUTHORISED FOR ISSUE:		0 1 2 3 4 5 6 7 8 SCALE 1:100 (A1) SCALE 1:200 (A3)						SITE SECTIONS - SHEET 02 OF 04			
2	AV	MZ	RT	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT						BY: SINA ARBABZADEH SIGN: 								DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY			
3	RT	JS	GM	SA	22/11/2022	COUNCIL AMENDMENTS						MEng (Civil) MIEAust CP Eng NER								PROJECT No. DRAWING No. STAGE REVISION			
4	RT	JS	GM	SA	25/11/2022	CLIENT AMENDMENTS						DATE: 25/11/2022								21-000381 205 DA 4			

LEGEND

EXISTING LEVEL

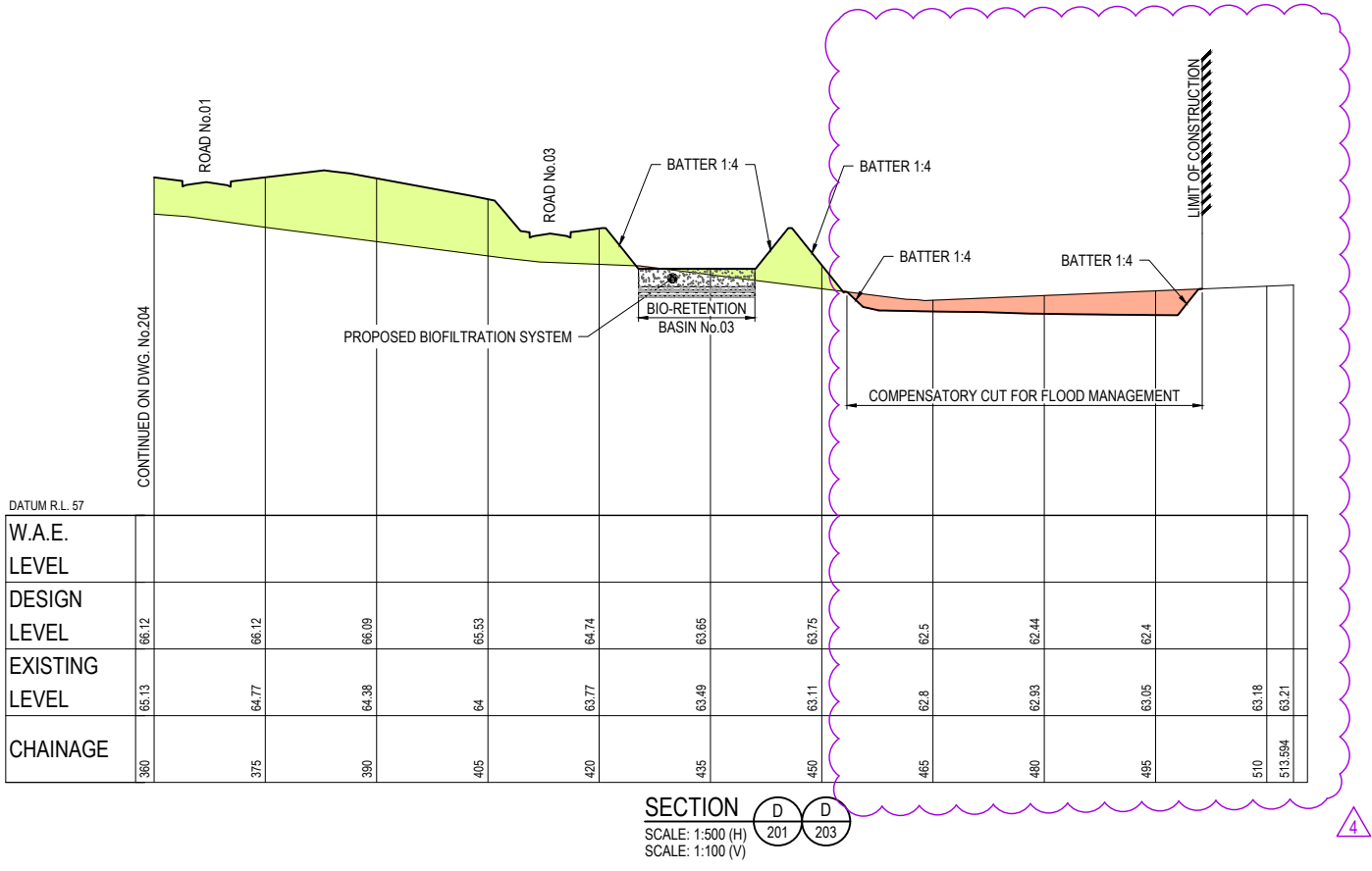
DESIGN LEVEL

CUT AREA

FILL AREA

RETAINING WALL

NOTES:
FOR EXISTING SURFACE INFORMATION,
REFER TO CALIBRE GROUP GENERAL
NOTE 1 ON DWG.No.003.



FILE: H:\21-000381 - OSL - GURNER AVENUE, AUSTRALIA\03. MODEL\AUTOCAD\CON\DWG\WEST 03.DWG LAST SAVED BY: ED SWIRNEY

FIRST
ISSUE

DESIGN

DRAWN

CHECK

APPD.

DATE

1

AV

JS

GM/SA

EF

27/10/2021

2

AV

MZ

RT

EF

29/07/2022

3

RT

JS

GM

SA

22/11/2022

4

RT

JS

GM

SA

25/11/2022

AMENDMENT DETAILS

STATUS

FOR
DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: SINA ARBAZADEH
MEng (Civil) MIEAust CPEng NER
SIGN:
DATE: 25/11/2022

SCALE

0 5 10 15 20 25 30 35 40

SCALE 1:500 (A1)

SCALE 1:1000 (A3)

0 1 2 3 4 5 6 7 8

SCALE 1:100 (A1)

SCALE 1:200 (A3)

CLIENT

PROJECT

OSL - GURNER AVENUE, AUSTRAL
ROAD & DRAINAGE DESIGN (WEST)

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

DRAWING TITLE

SITE SECTIONS - SHEET 03 OF
04

PROJECT No.

21-000381

DRAWING No.

206

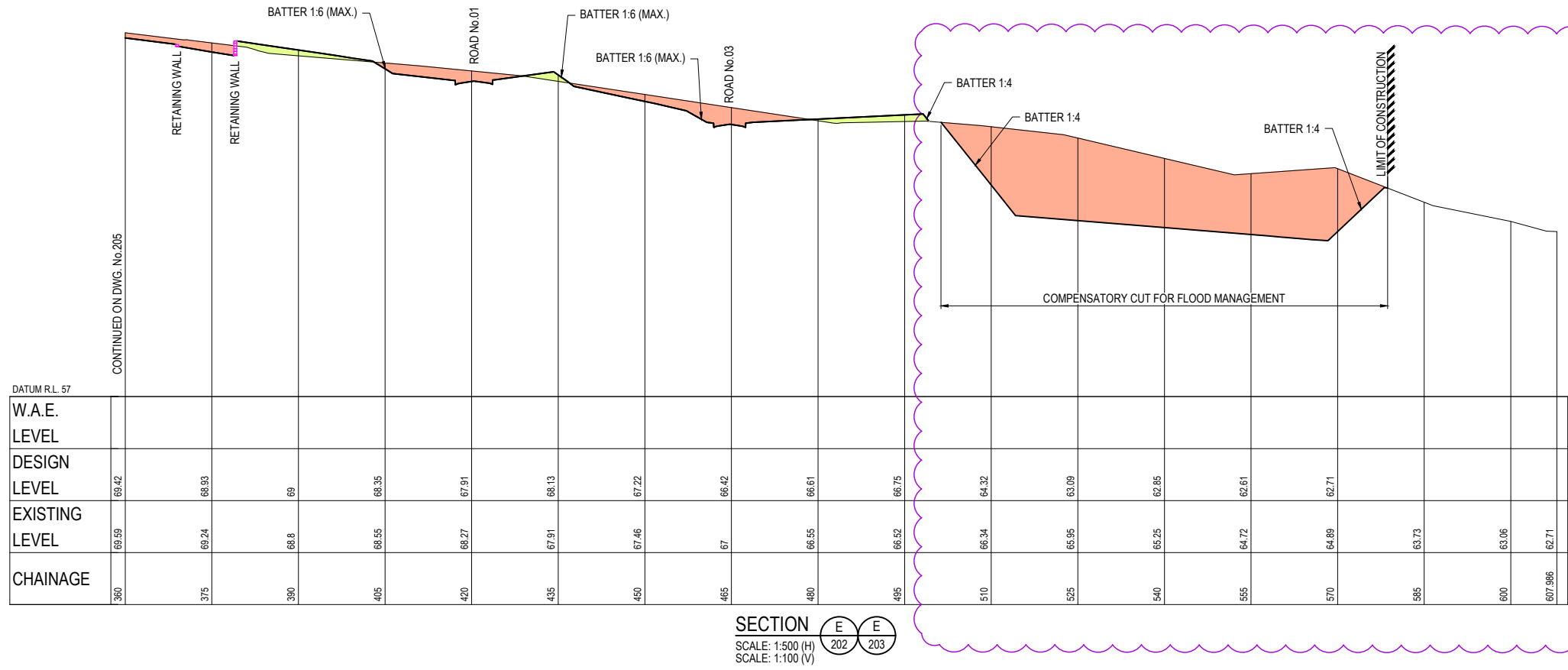
STAGE

DA

REVISION

4

FILE: H:\21-000381 - OSL - GURNER AVENUE, AUSTRALIA\03_MODEL\AUTOCAD\CON\DWG\WEST\21-000381_WEST_L0.DWG LAST SAVED BY: ED SWIRNEY

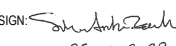


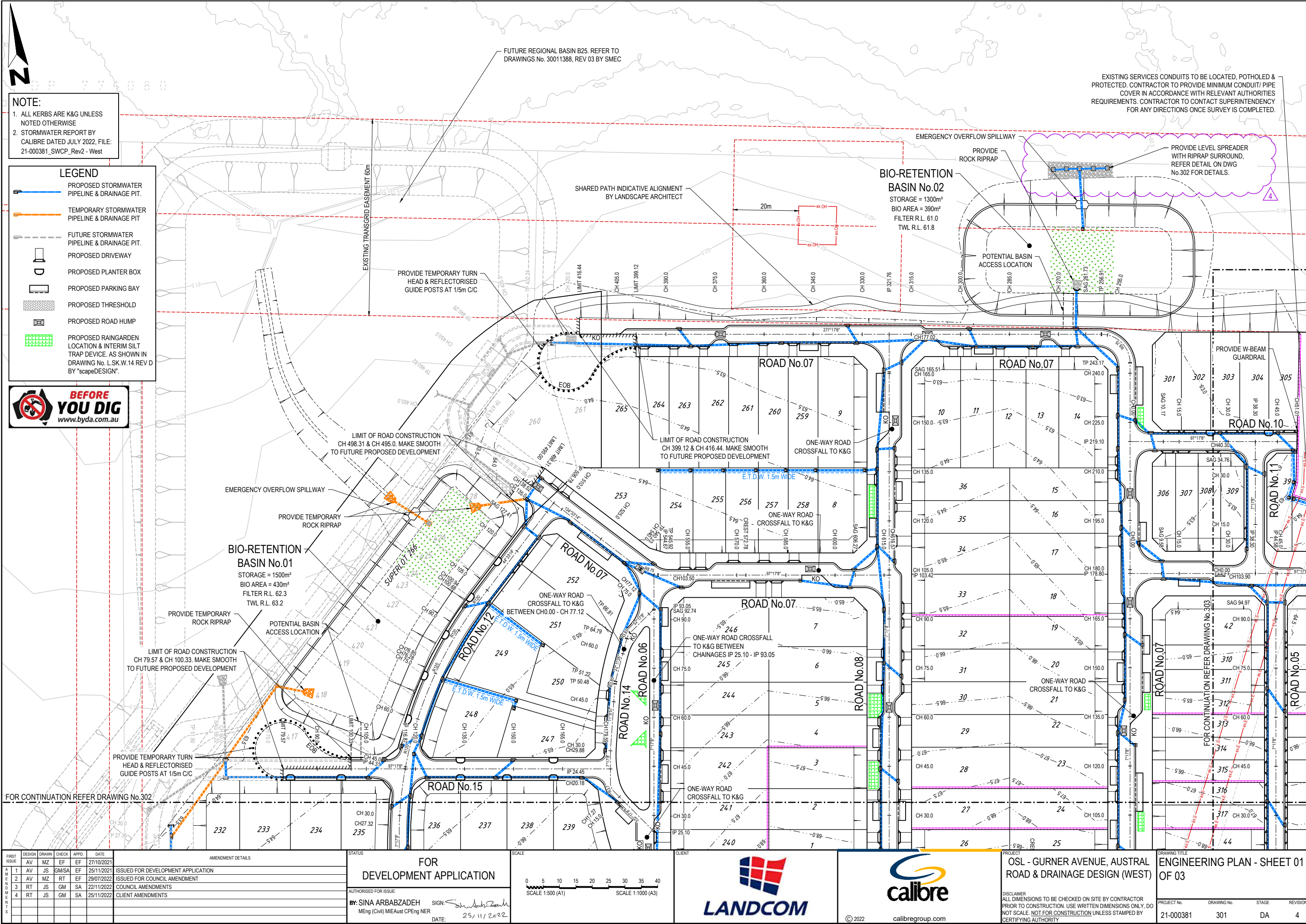
LEGEND

- EXISTING LEVEL
- DESIGN LEVEL
- CUT AREA
- FILL AREA
- RETAINING WALL

NOTES:

FOR EXISTING SURFACE INFORMATION, REFER TO CALIBRE GROUP GENERAL NOTE 1 ON DWG.No.003.

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	FOR DEVELOPMENT APPLICATION	SCALE	CLIENT	PROJECT	DRAWING TITLE						
	1	AV	MZ	EF	EF	27/10/2021													
	2	AV	JS	GM/SA	EF	25/11/2021													
	3	RT	JS	GM	SA	22/11/2022													
	4	RT	JS	GM	SA	25/11/2022													
							AUTHORISED FOR ISSUE:	BY: SINA ARBABZADEH	SIGN: 										
								MEng (Civil) MIEAust CPEng NER	DATE: 25/11/2022										
										SCALE 1:500 (A1)	SCALE 1:1000 (A3)	LANDCOM		calibre		OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)		SITE SECTIONS - SHEET 04 OF 04	
										SCALE 1:100 (A1)	SCALE 1:200 (A3)	© 2022		calibregroup.com		DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY		PROJECT No. 21-000381 DRAWING No. 207 STAGE DA REVISION 4	



NOTE:

1. ALL KERBS ARE K&G UNLESS NOTED OTHERWISE

2. STORMWATER REPORT BY CALIBRE DATED JULY 2022, FILE: 21-000381_SWCP_Rev2 - West

LEGEND

- PROPOSED STORMWATER PIPELINE & DRAINAGE PIT.
- TEMPORARY STORMWATER PIPELINE & DRAINAGE PIT.
- FUTURE STORMWATER PIPELINE & DRAINAGE PIT.
- PROPOSED DRIVEWAY
- PROPOSED PLANTER BOX
- PROPOSED PARKING BAY
- PROPOSED THRESHOLD
- PROPOSED ROAD HUMP
- PROPOSED RAINGARDEN LOCATION & INTERIM SILT TRAP DEVICE, AS SHOWN IN DRAWING No. LSK.W.14 REV D BY "scapeDESIGN".



EXISTING SERVICES CONDUITS TO BE LOCATED, POTHOLED & PROTECTED. CONTRACTOR TO PROVIDE MINIMUM CONDUIT/PIPE COVER IN ACCORDANCE WITH RELEVANT AUTHORITIES REQUIREMENTS. CONTRACTOR TO CONTACT SUPERINTENDENCY FOR ANY DIRECTIONS ONCE SURVEY IS COMPLETED.

FILE: I:\STANDARD\PROJECTS\21-000381 - GURNER AVENUE, AUSTRALIA\08. MODEL\AUTOCAD\CIVIL\DWG\21-000381 - WEST.LD.DWG LAST SAVED BY JED SWENEY

AMENDMENT DETAILS					
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE
1	AV	MZ	EF	EF	27/10/2021
2	AV	JS	GM/SA	EF	25/11/2021
3	AV	MZ	RT	EF	29/07/2022
4	RT	JS	GM	SA	22/11/2022
5	RT	JS	GM	SA	25/11/2022

ISSUED FOR DEVELOPMENT APPLICATION	
ISSUED FOR COUNCIL AMENDMENT	
COUNCIL AMENDMENTS	
CLIENT AMENDMENTS	

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:

BY: SINA ARBAZADEH SIGN: *Sina Arbazadeh*

MEng (Civil) MIEAust CPEng NER

DATE: 25/11/2022

SCALE

0 5 10 15 20 25 30 35 40

SCALE 1:500 (A1)

SCALE 1:1000 (A3)

CLIENT

LANDCOM

calibre

© 2022

calibregroup.com

PROJECT

OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)

DISCLAIMER

ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE

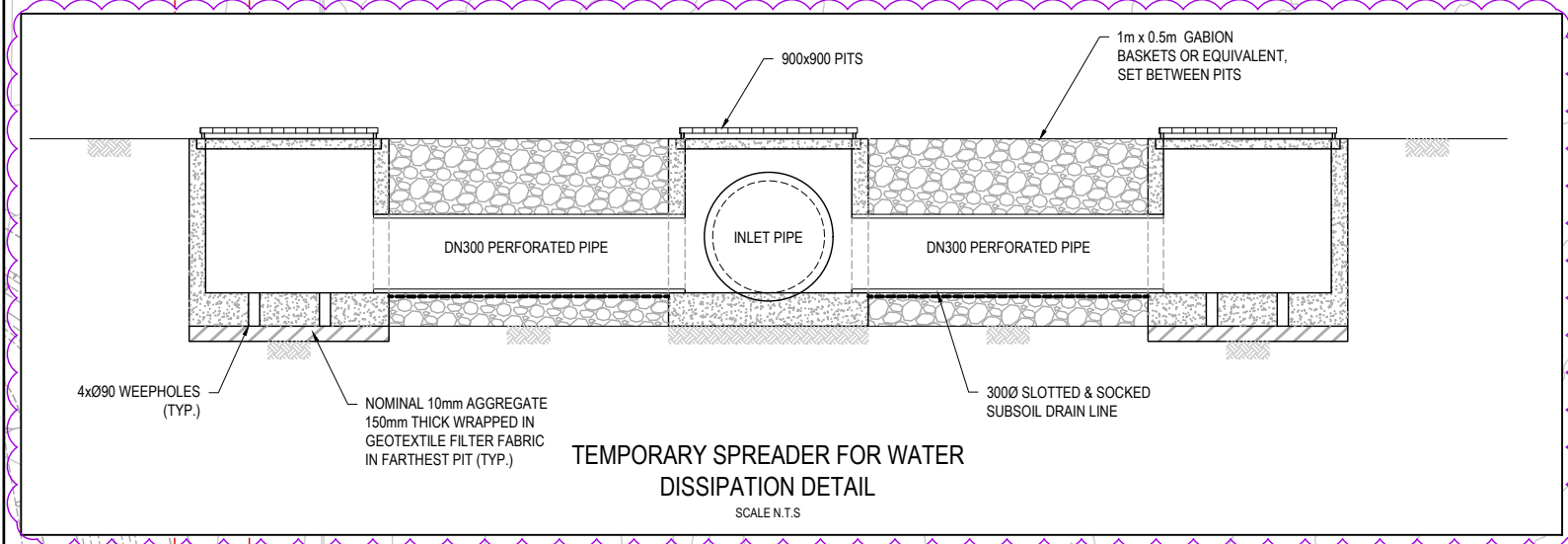
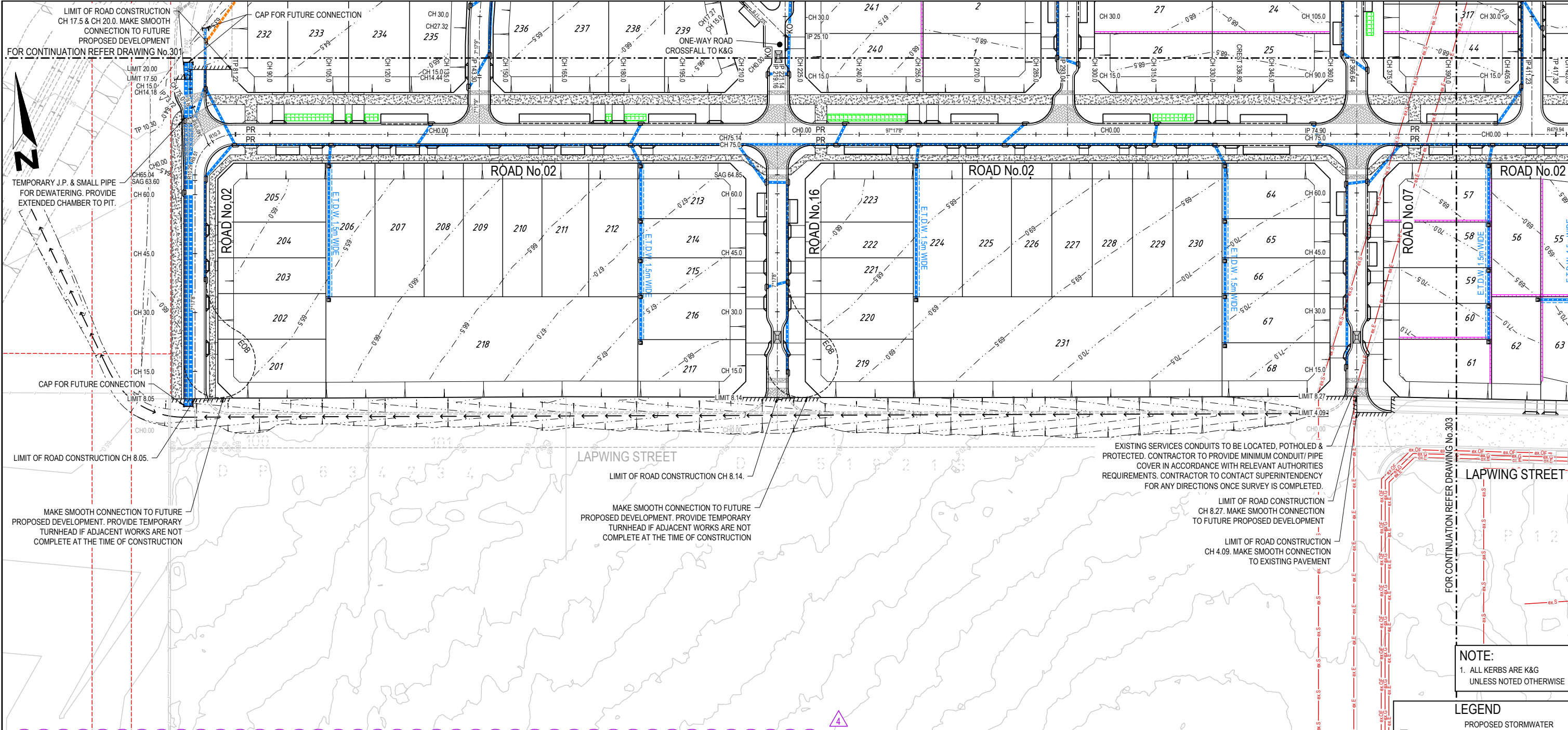
ENGINEERING PLAN - SHEET 01 OF 03

PROJECT No. 21-000381

DRAWING No. 301

STAGE DA

REVISION 4



EXISTING SERVICES CONDUITS TO BE LOCATED, POTHOLED & PROTECTED. CONTRACTOR TO PROVIDE MINIMUM CONDUIT/ PIPE COVER IN ACCORDANCE WITH RELEVANT AUTHORITIES REQUIREMENTS. CONTRACTOR TO CONTACT SUPERINTENDENCY FOR ANY DIRECTIONS ONCE SURVEY IS COMPLETED.

LIMIT OF ROAD CONSTRUCTION CH 8.27. MAKE SMOOTH CONNECTION TO FUTURE PROPOSED DEVELOPMENT

LIMIT OF ROAD CONSTRUCTION CH 4.09. MAKE SMOOTH CONNECTION TO EXISTING PAVEMENT

NOTE:
1. ALL KERBS ARE K&G UNLESS NOTED OTHERWISE

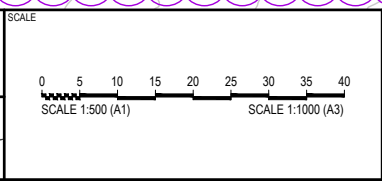
- LEGEND**
- PROPOSED STORMWATER PIPELINE & DRAINAGE PIT.
 - TEMPORARY STORMWATER PIPELINE & DRAINAGE PIT
 - FUTURE STORMWATER PIPELINE & DRAINAGE PIT.
 - PROPOSED DRIVEWAY
 - PROPOSED PLANTER BOX
 - PROPOSED PARKING BAY
 - PROPOSED THRESHOLD
 - PROPOSED ROAD HUMP
 - PROPOSED RAINGARDEN LOCATION & INTERIM SILT TRAP DEVICE. AS SHOWN IN DRAWING No. L.SK.W.14 REV D BY "scapeDESIGN".



AMENDMENT DETAILS					
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROD.	DATE
1	AV	MZ	EF	EF	27/10/2021
2	AV	JS	GM/SA	EF	25/11/2021
3	AV	MZ	RT	EF	29/07/2022
4	RT	JS	GM	SA	22/11/2022
5	RT	JS	GM	SA	25/11/2022

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: SINA ARBAZADEH SIGN: *Sina Arbazadeh*
MEng (Civil) MIEAust CPEng NER
DATE: 25/11/2022

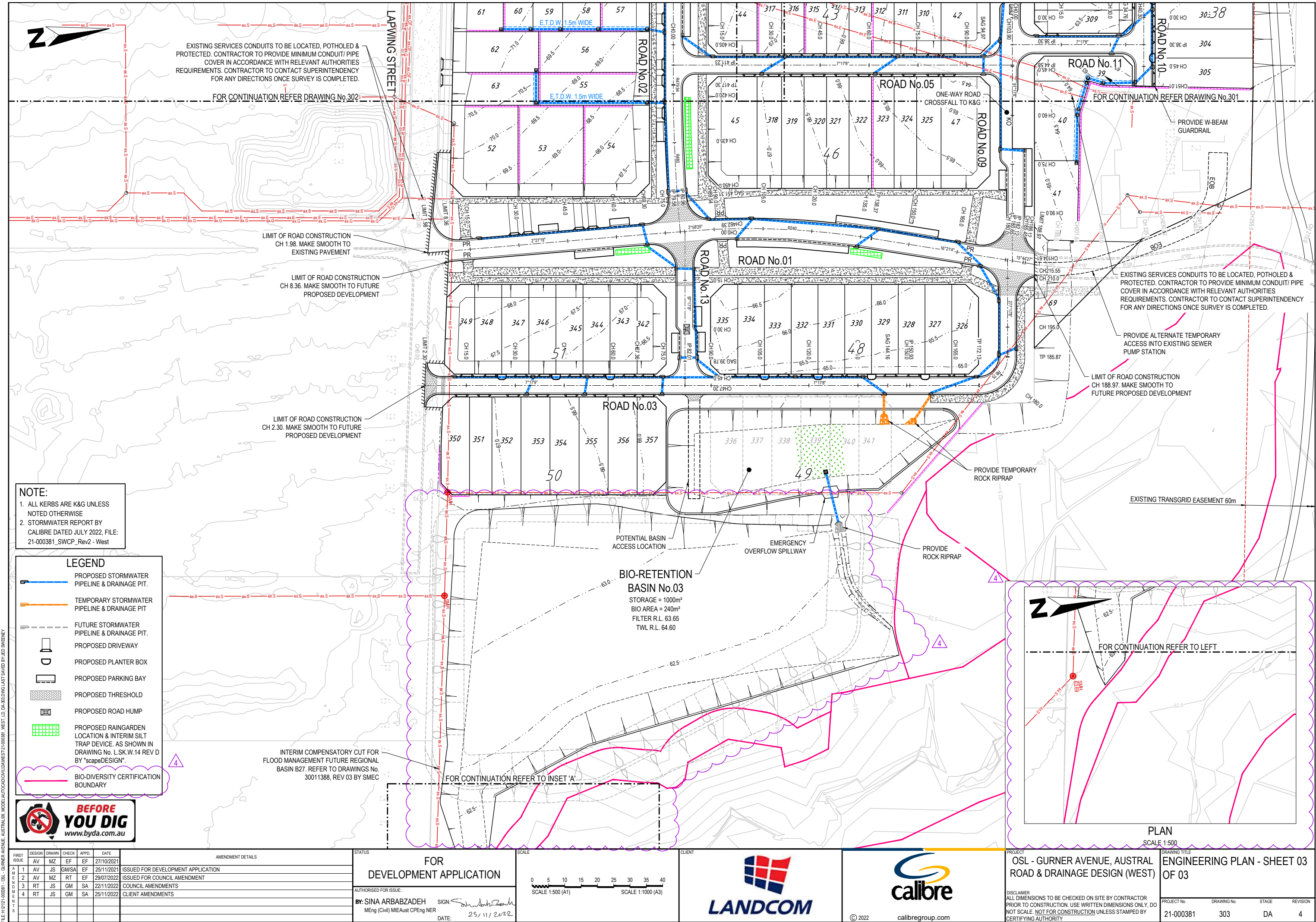


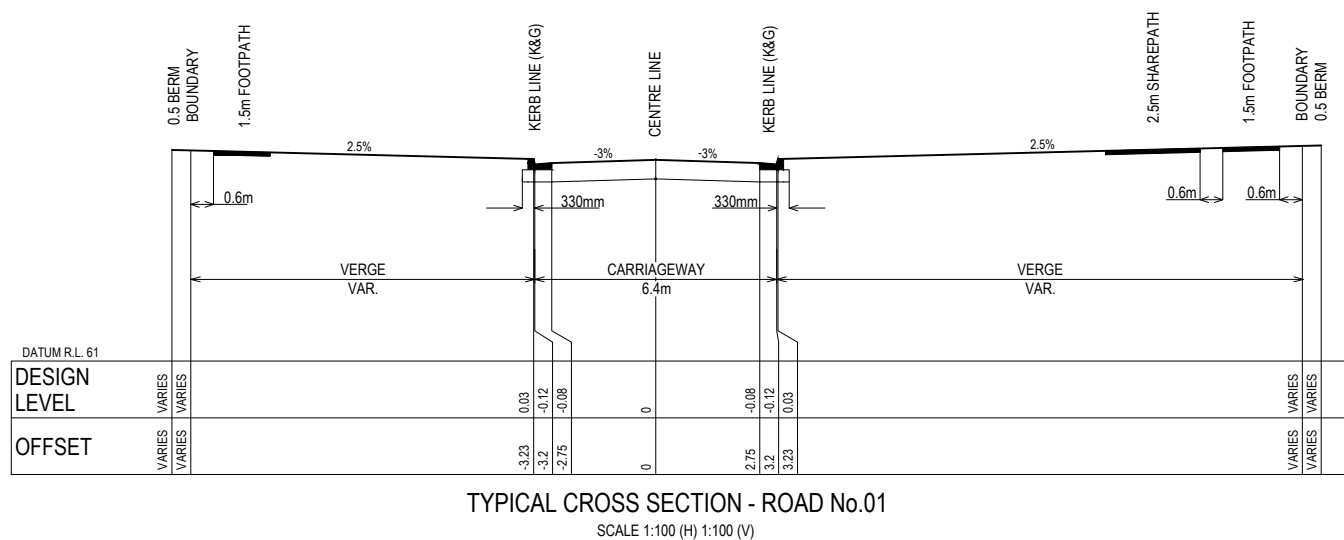
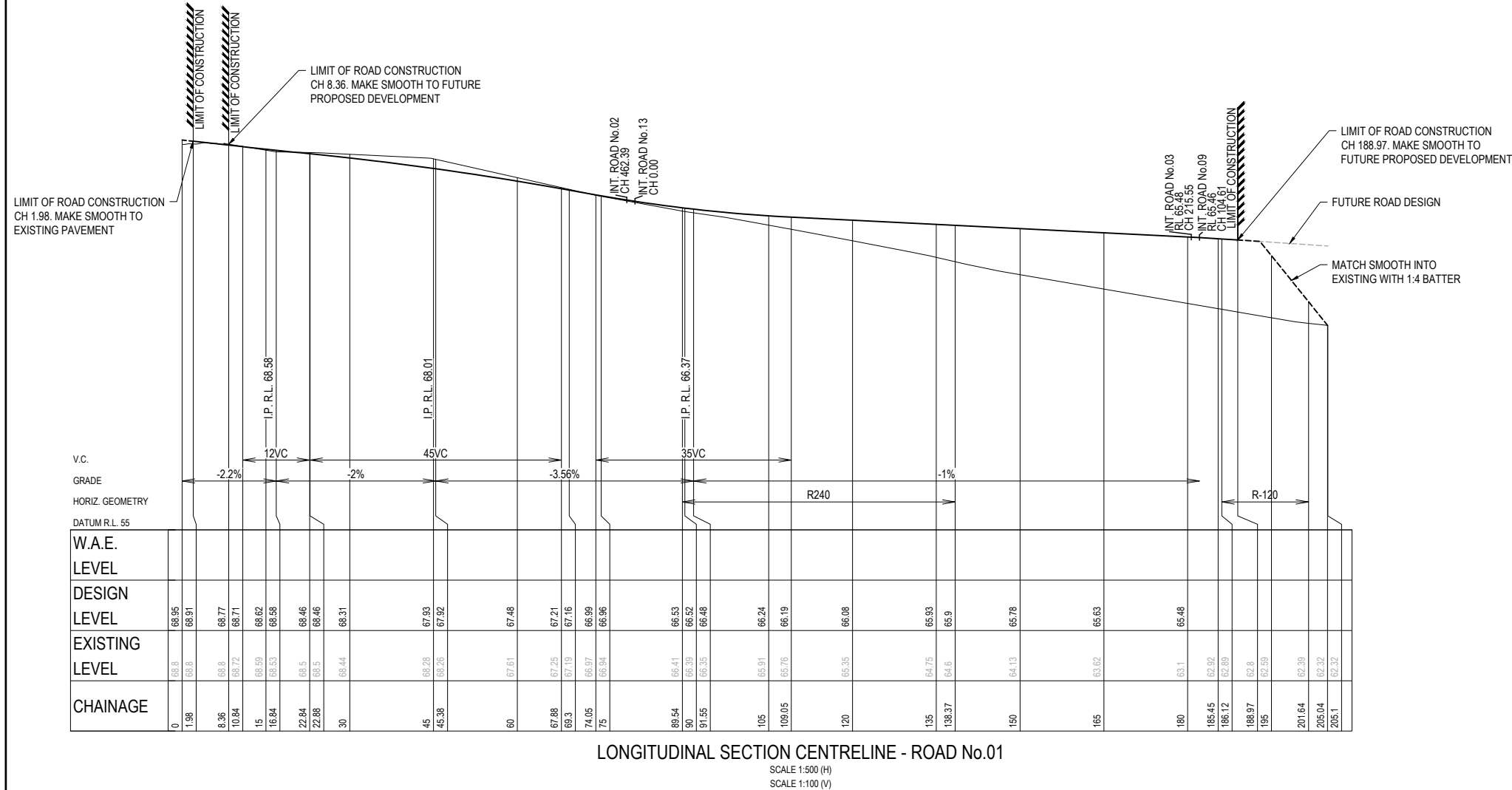
PROJECT
OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE			
ENGINEERING PLAN - SHEET 02 OF 03			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	302	DA	4

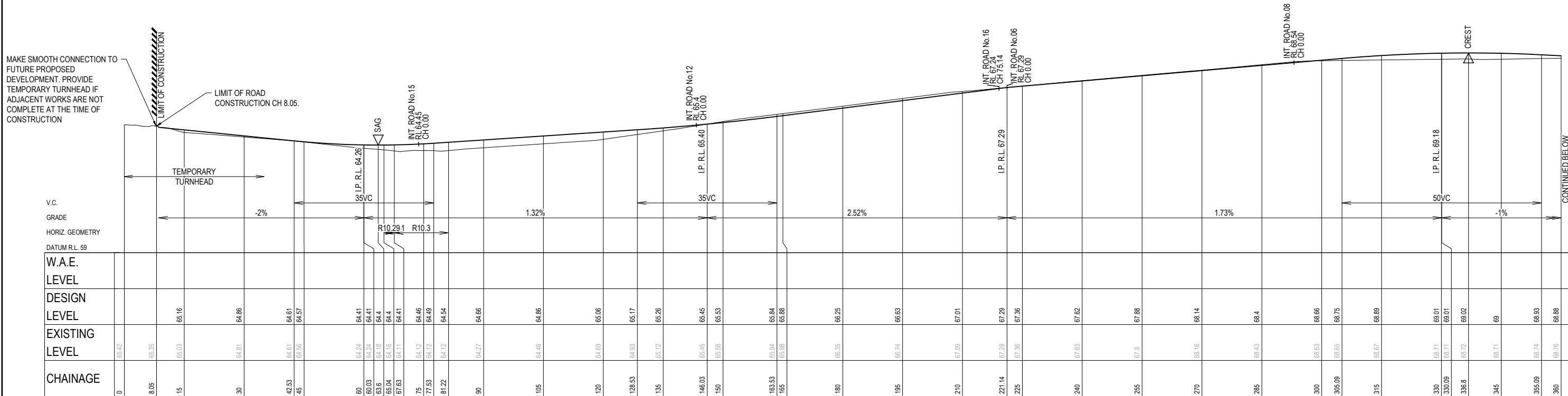
FILE: I:\D\000381\PROJECTS\21-000381 - OSL - GURNER AVENUE, AUSTRAL\08. MODEL\AUTOCAD\DWG\WEST 02.dwg LAST SAVED BY: JED SWINEY





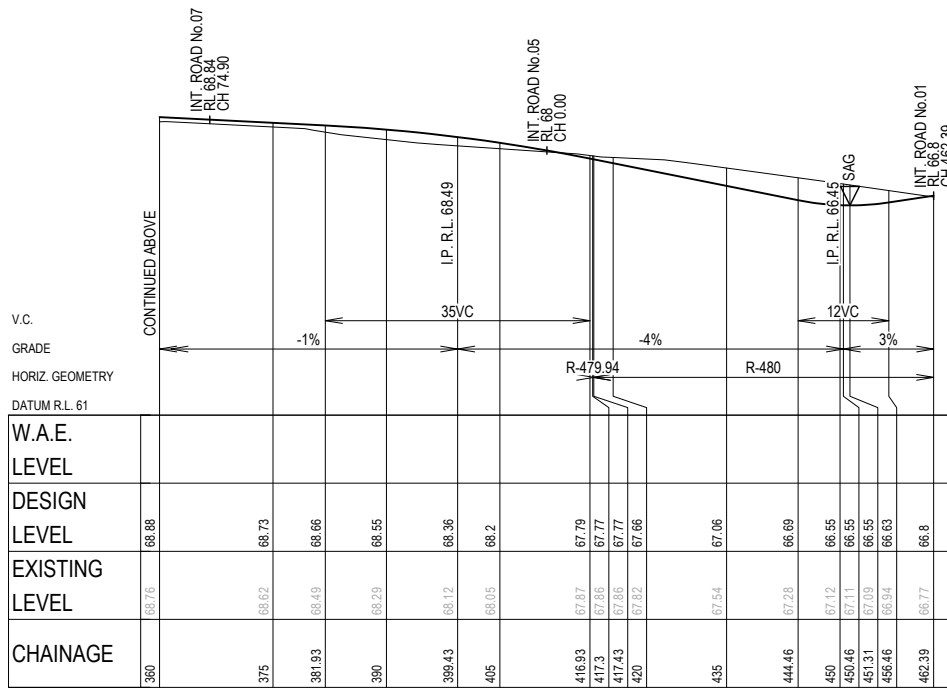
AMENDMENTS	DESIGN	DRAWN	CHECK	APPRO.	DATE	AMENDMENT DETAILS	STATUS	FOR DEVELOPMENT APPLICATION	SCALE	CLIENT	  © 2022 calibregroup.com	PROJECT OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)	DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY	DRAWING TITLE LONGITUDINAL & TYPICAL SECTIONS - ROAD No.01		
	AV	MZ	EF	EF	27/10/2021											
	1	AV	JS	GM/SA	EF										25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION
	2	AV	MZ	RT	EF										29/07/2022	ISSUED FOR COUNCIL AMENDMENT
	3	RT	JS	GM	SA										22/11/2022	COUNCIL AMENDMENTS
4	RT	JS	GM	SA	25/11/2022	CLIENT AMENDMENTS	AUTHORISED FOR ISSUE:	BY: SINA ARBABZADEH	SIGN: 	DATE: 25/11/2022	0 5 10 15 20 25 30 35 40 SCALE 1:500 (A1) SCALE 1:1000 (A3)	0 1 2 3 4 5 6 7 8 SCALE 1:100 (A1) SCALE 1:200 (A3)	PROJECT No. 21-000381	DRAWING No. 401	STAGE DA	REVISION 4

FILE: I:\STANDARD\PROJECTS\21-000381 - OS - GURNER AVENUE, AUSTRALIA\06 - MODEL\AUTOCAD\CIVIL\DWG\21-000381 - WEST_ID_04-02.DWG LAST SAVED BY: MOWLA, ZAHABI



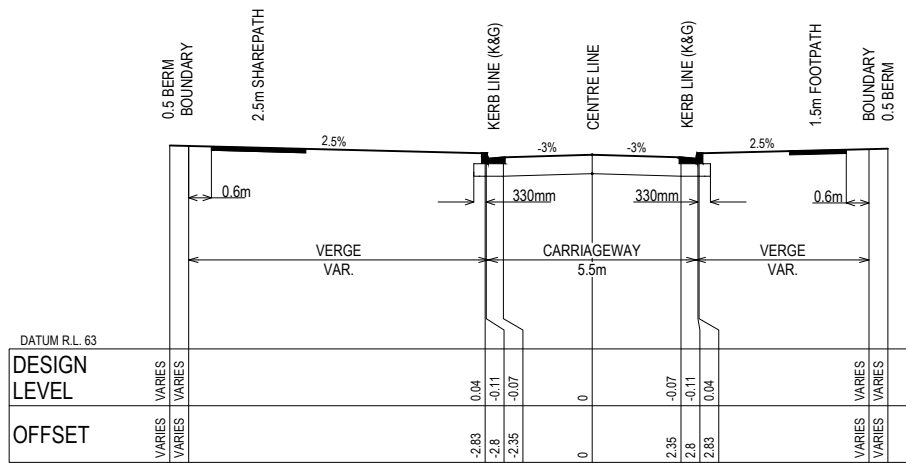
LONGITUDINAL SECTION CENTRELINE - ROAD No.02

SCALE 1:500 (H)
SCALE 1:100 (V)



LONGITUDINAL SECTION CENTRELINE - ROAD No.02

SCALE 1:500 (H)
SCALE 1:100 (V)

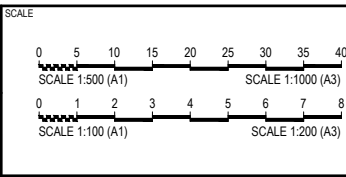


TYPICAL CROSS SECTION - ROAD No.02

SCALE 1:100 (H) 1:100 (V)

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
1	AV	MZ	EF	EF	27/10/2021	
2	AV	JS	GM/SA	EF	25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION
3	RT	JS	GM	SA	29/07/2022	ISSUED FOR COUNCIL AMENDMENT
4	RT	JS	GM	SA	22/11/2022	COUNCIL AMENDMENTS
					25/11/2022	CLIENT AMENDMENTS

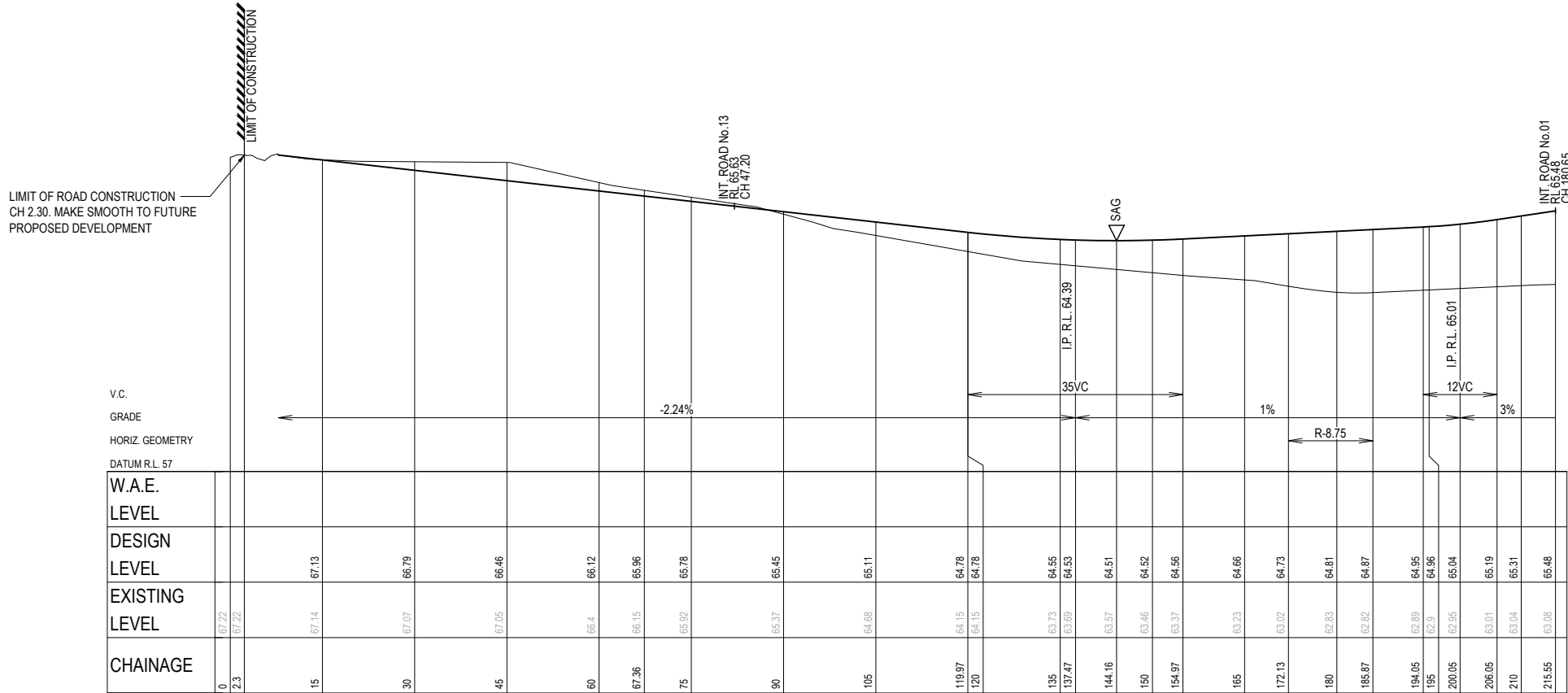
STATUS	FOR DEVELOPMENT APPLICATION
AUTHORISED FOR ISSUE:	
BY: SINA ARBAZADEH	SIGN: <i>Sina Arbazadeh</i>
MEng (Civil) MIEAust CPEng NER	
DATE: 25/11/2022	



PROJECT	OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)
DISCLAIMER	ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

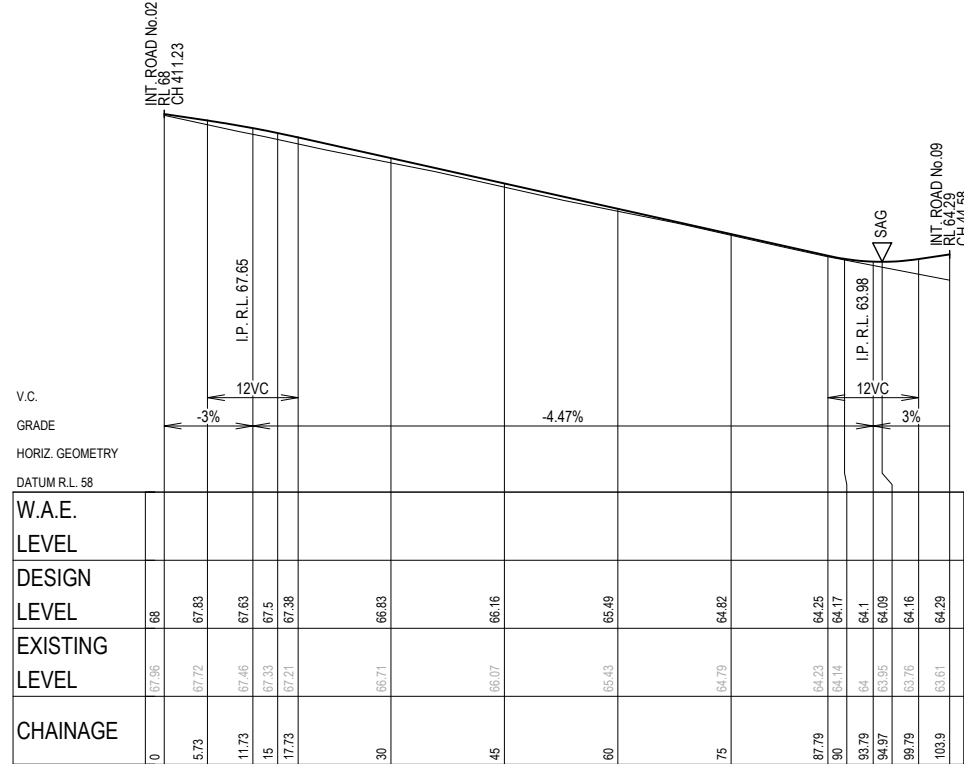
DRAWING TITLE	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.02
PROJECT No.	21-000381
DRAWING No.	402
STAGE	DA
REVISION	4

FILE: I:\DYNAMIC\PROJECTS\21-000381 - OSL - GURNER AVENUE, AUSTRALIA\08. MODEL\AUTOCAD\CIVIL\WEST12-000381 - WEST.LD, DW-403.DWG LAST SAVED BY: MONAL ZAHEDI



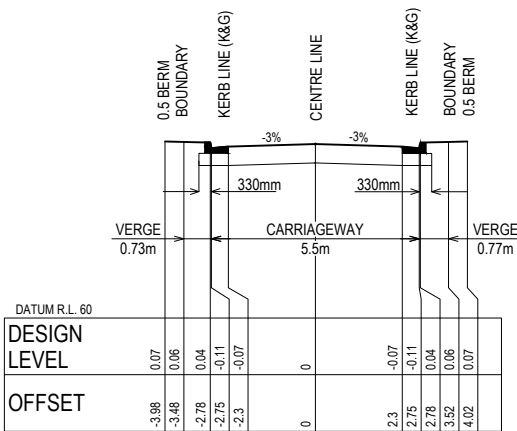
LONGITUDINAL SECTION CENTRELINE - ROAD No.03

SCALE 1:500 (H)
SCALE 1:100 (V)



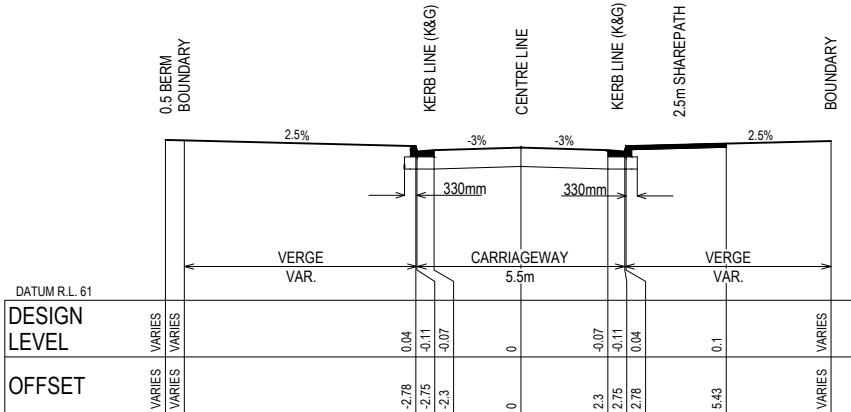
LONGITUDINAL SECTION CENTRELINE - ROAD No.05

SCALE 1:500 (H)
SCALE 1:100 (V)



TYPICAL CROSS SECTION - ROAD No.05

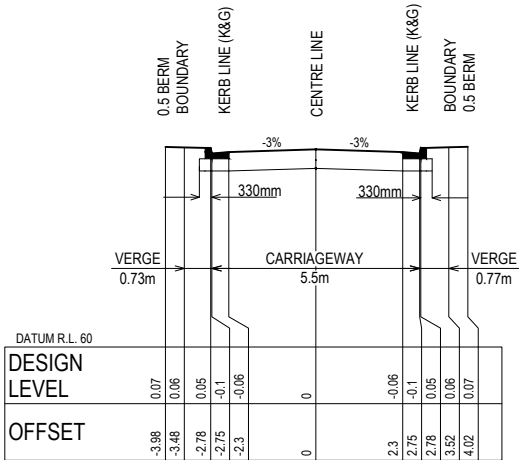
SCALE 1:100 (H) 1:100 (V)



TYPICAL CROSS SECTION - ROAD No.03

(IP 150.93 TO END)

SCALE 1:100 (H) 1:100 (V)



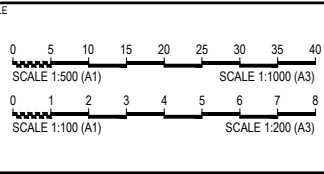
TYPICAL CROSS SECTION - ROAD No.03

(CH 0.00 TO IP 150.93)

SCALE 1:100 (H) 1:100 (V)

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	
	1	AV	MZ	EF	EF	27/10/2021		
	2	AV	JS	GM/SA	EF	25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION	
	3	RT	JS	GM	SA	22/11/2022	COUNCIL AMENDMENTS	
	4	RT	JS	GM	SA	25/11/2022	CLIENT AMENDMENTS	

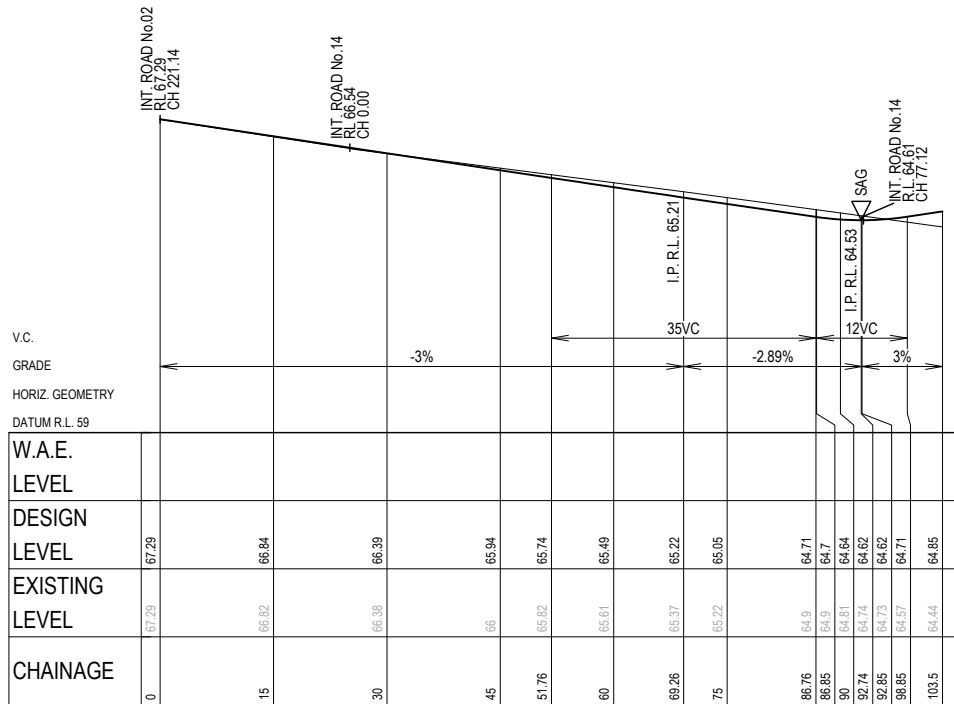
STATUS		FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:		BY: SINA ARBAZADEH	SIGN:
		MEng (Civil) MIEAust CPEng NER	DATE: 25/11/2022



PROJECT			
OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)			
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY			

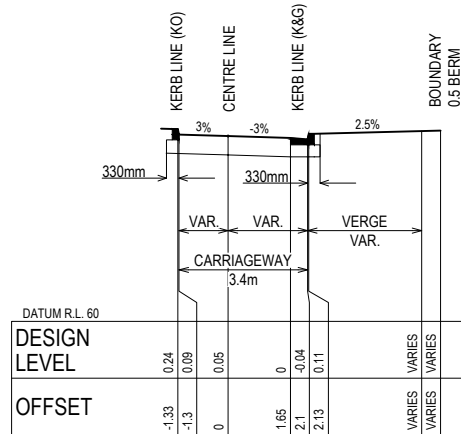
DRAWING TITLE			
LONGITUDINAL & TYPICAL SECTIONS - ROAD No.03 & 05			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	403	DA	4

FILE: I:\DYNAMIC\PROJECTS\2021\00081 - OS - GURNER AVENUE, AUSTRALIA\08 - MODEL\AUTOCAD\CIVIL\DWG\WEST12-00081 - WEST_L1.DWG LAST SAVED BY: MONAL ZAHEDI



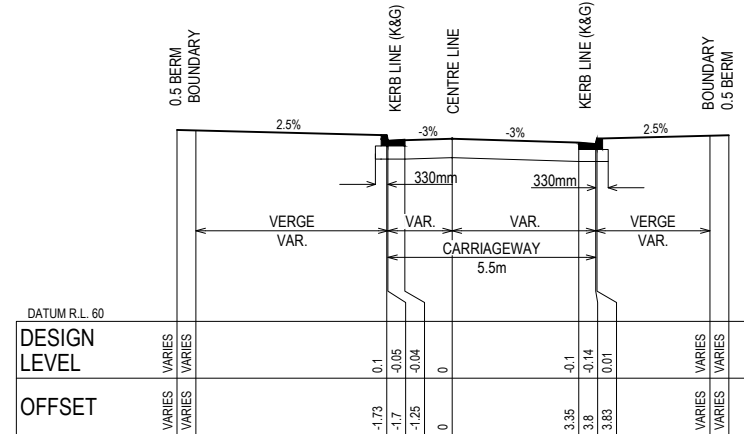
LONGITUDINAL SECTION CENTRELINE - ROAD No.06

SCALE 1:500 (H)
SCALE 1:100 (V)



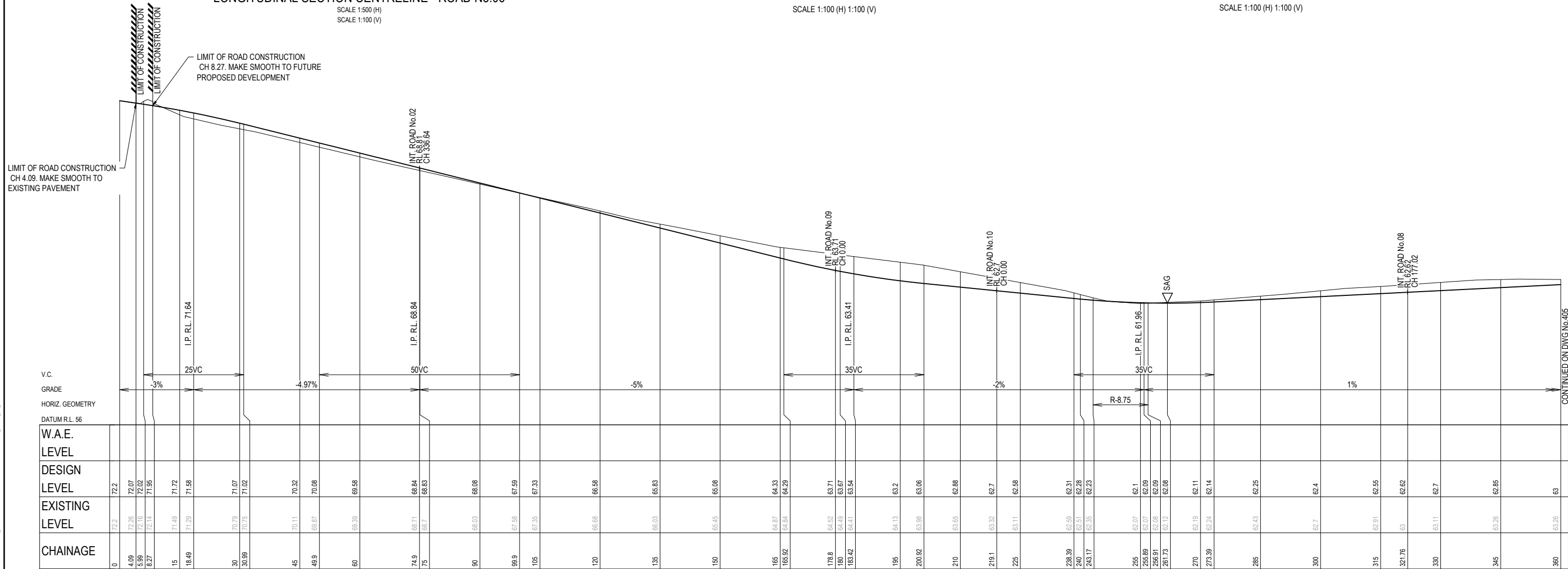
TYPICAL CROSS SECTION - ROAD No.06

SCALE 1:100 (H) 1:100 (V)



TYPICAL CROSS SECTION - ROAD No.07

SCALE 1:100 (H) 1:100 (V)

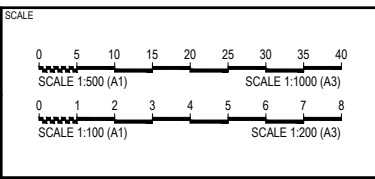


LONGITUDINAL SECTION CENTRELINE - ROAD No.07

SCALE 1:500 (H)
SCALE 1:100 (V)

REV	AMENDMENT DETAILS				
	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.
	1	AV	MZ	EF	EF
	2	AV	MZ	RT	EF
	3	RT	JS	GM	SA
4	RT	JS	GM	SA	25/11/2022

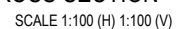
STATUS	
FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:	
BY: SINA ARBAZADEH	SIGN: <i>Sina Arbazadeh</i>
MEng (Civil) MIEAust CPEng NER	
DATE: 25/11/2022	



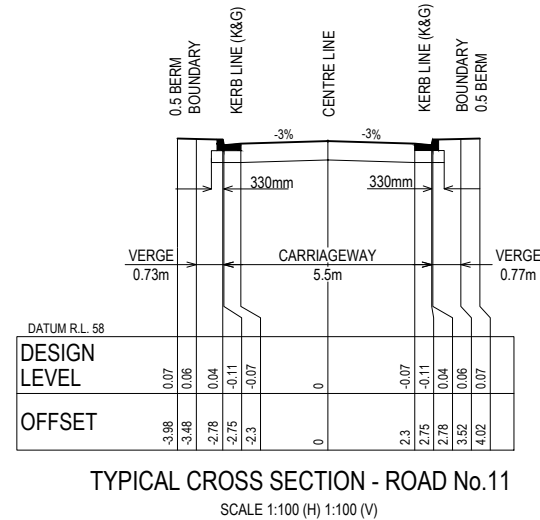
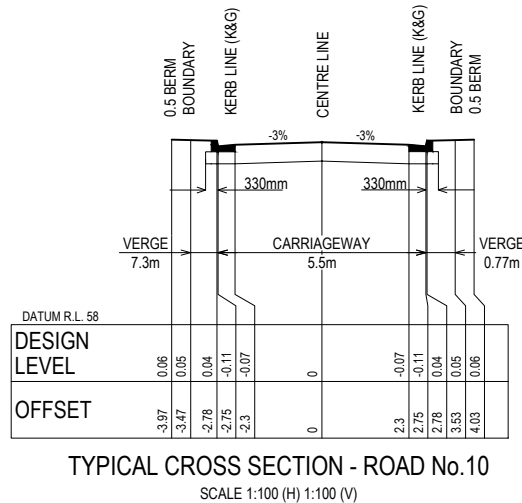
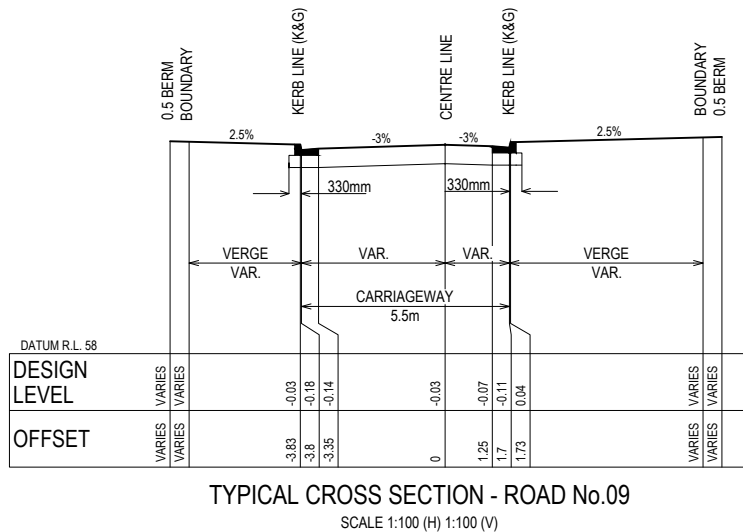
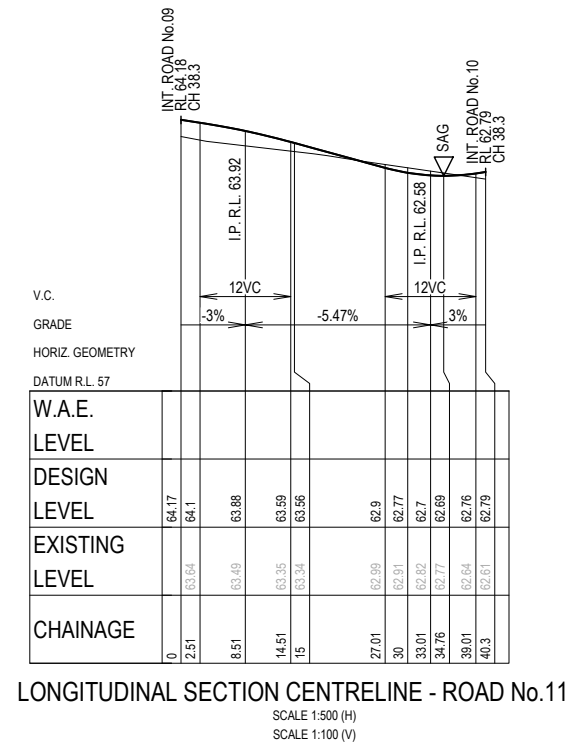
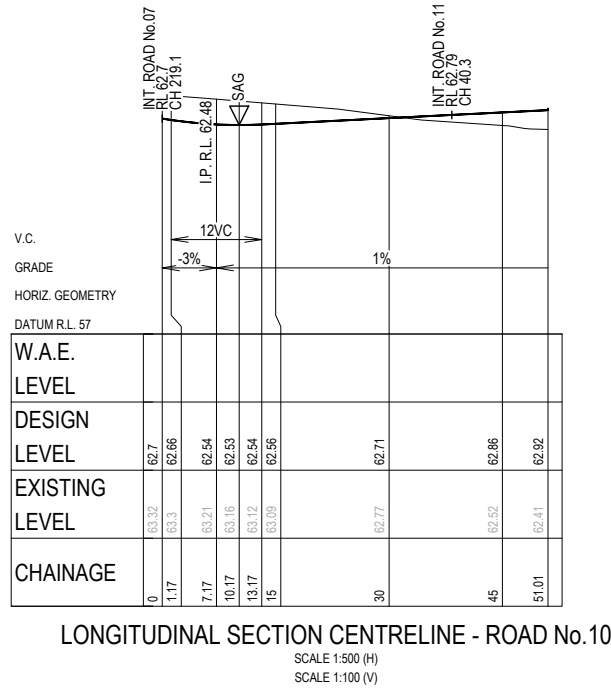
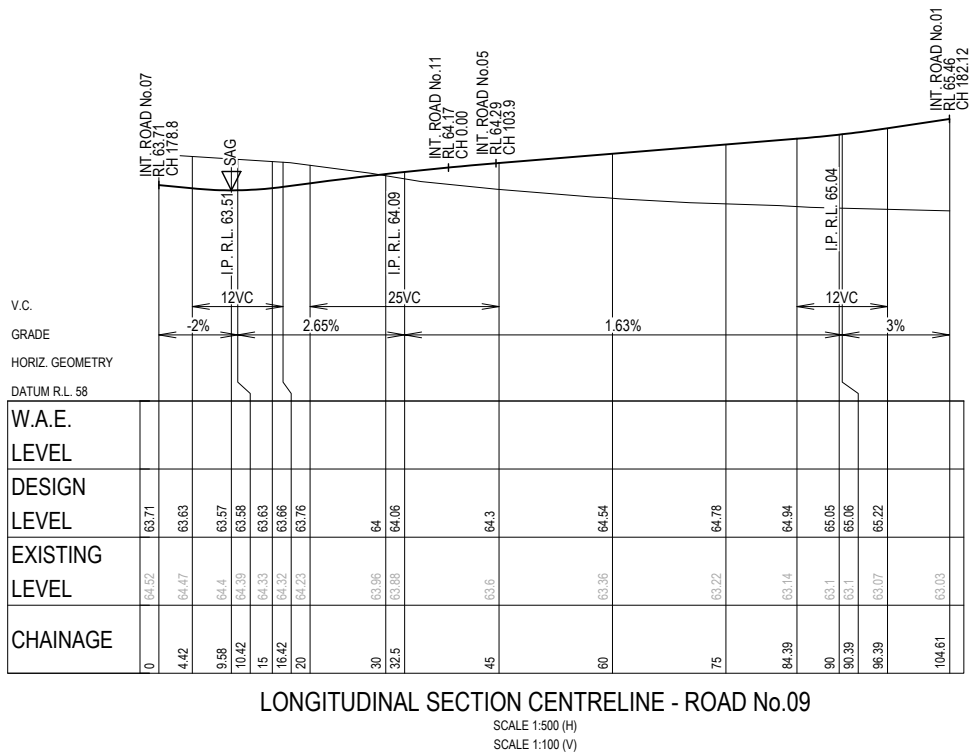
PROJECT
OSL - GURNER AVENUE, AUSTRAL
ROAD & DRAINAGE DESIGN (WEST)

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

DRAWING TITLE			
LONGITUDINAL & TYPICAL SECTIONS - ROAD No.06 & 07			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	404	DA	4



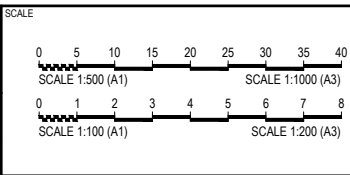
FILE: I:\STANDARD\PROJECTS\21-000381 - OS - GURNER AVENUE, AUSTRAL\08_MODEL\AUTOCAD\PLAN\WEST12-500381.WEST.LD, 04-46:00 PM LAST SAVED BY: MUMU.ZAHABI



REV	AMENDMENT DETAILS					
	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE
	1	AV	MZ	EF	EF	27/10/2021
	2	AV	JS	GM/SA	EF	25/11/2021
	3	RT	JS	GM	SA	22/11/2022

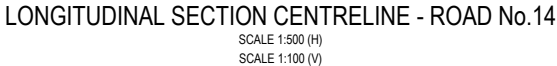
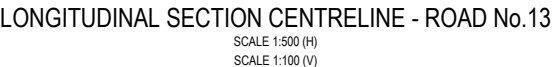
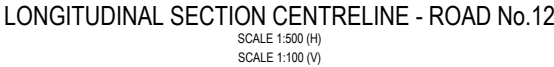
4	RT	JS	GM	SA	25/11/2022	CLIENT AMENDMENTS

STATUS	
FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:	
BY: SINA ARBAZADEH MEng (Civil) MIEAust CPEng NER	SIGN: DATE: 25/11/2022



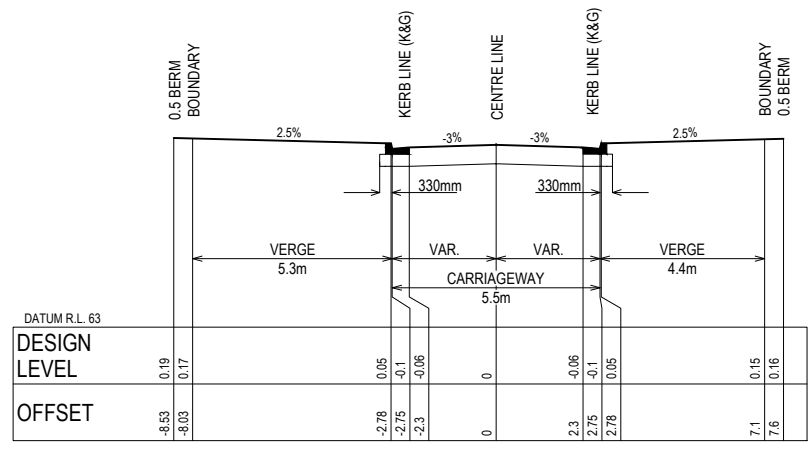
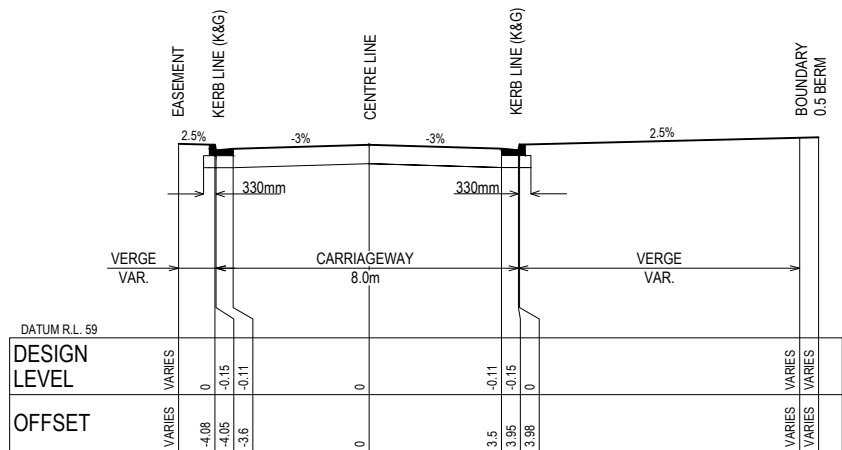
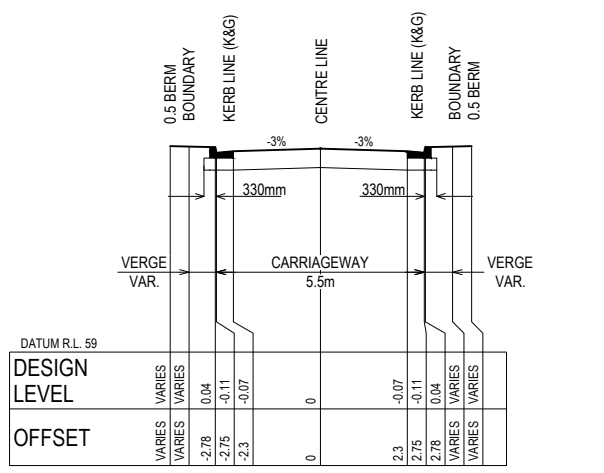
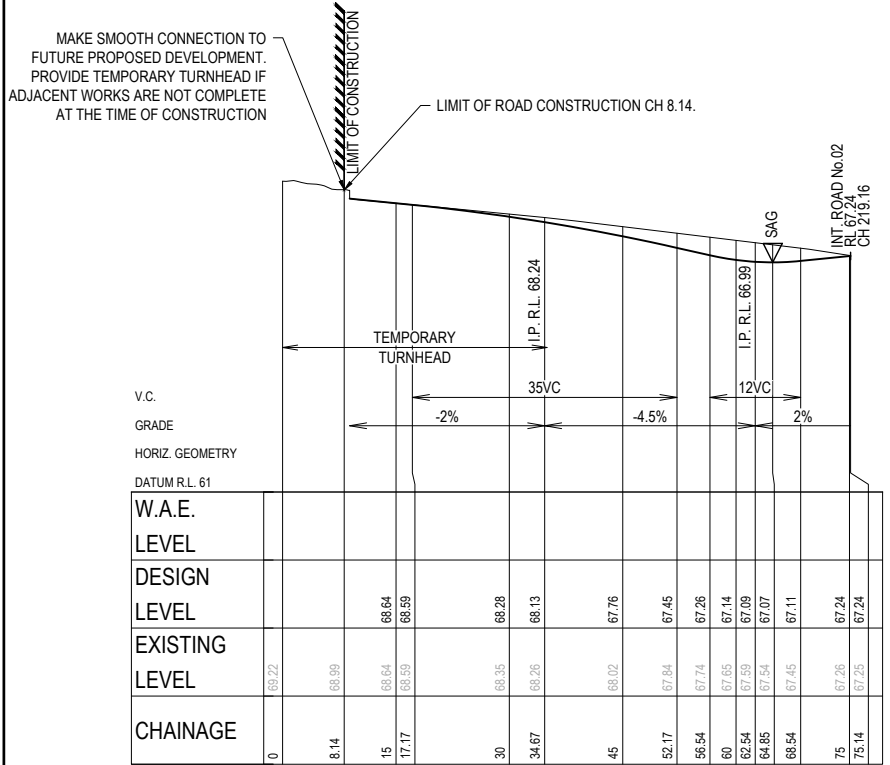
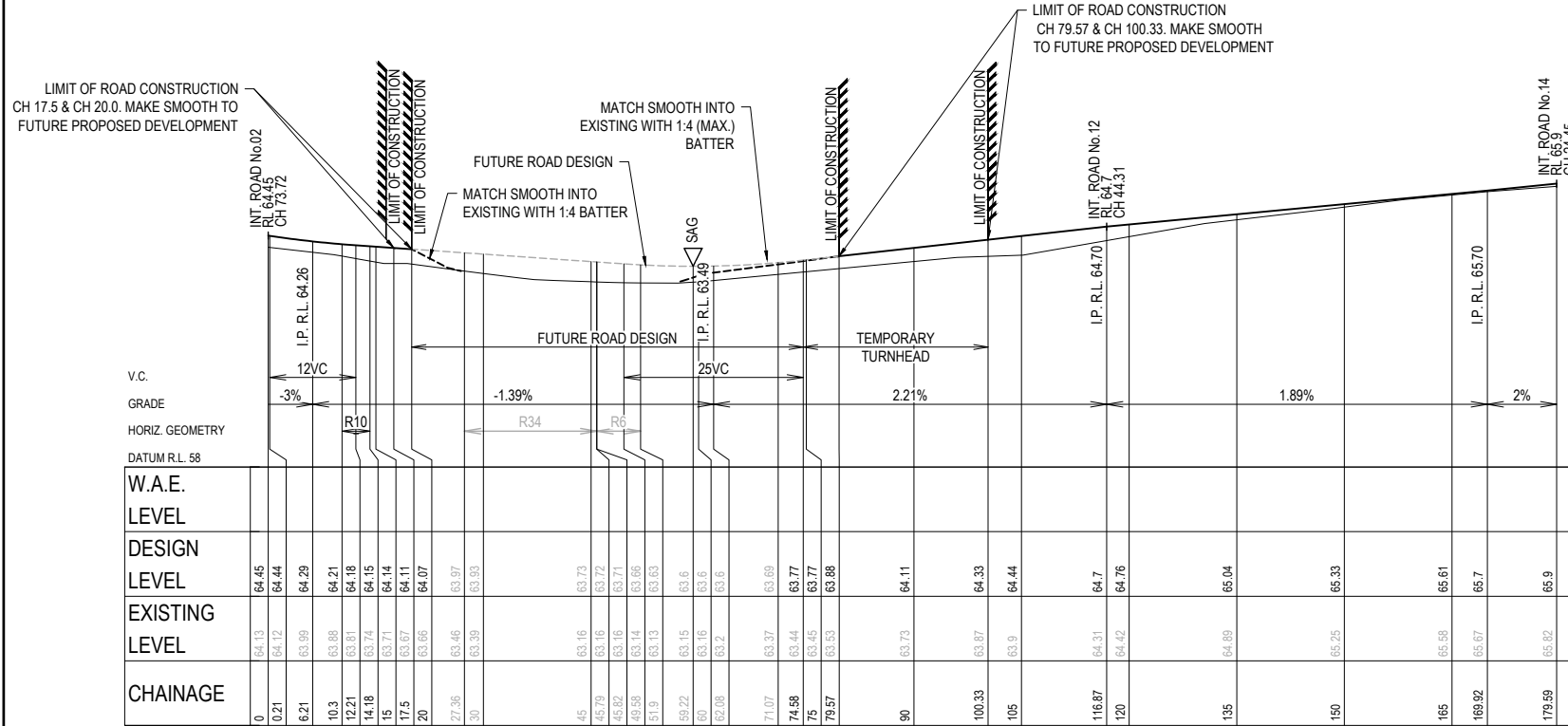
PROJECT			
OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)			
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY			

DRAWING TITLE			
LONGITUDINAL & TYPICAL SECTIONS - ROAD No.09, 10 & 11			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	406	DA	4



AMENDMENTS	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	FOR DEVELOPMENT APPLICATION	0510152025303540 SCALE 1:500 (A1) SCALE 1:1000 (A3) 012345678 SCALE 1:100 (A1) SCALE 1:200 (A3)	  © 2022 calibregroup.com	PROJECT OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)	DRAWING TITLE LONGITUDINAL & TYPICAL SECTIONS - ROAD No.12, 13, 14 & 15					
	AV	MZ	EF	EF	27/10/2021												
	1	AV	JS	GM/SA	EF								25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION			
	2	AV	MZ	RT	EF								29/07/2022	ISSUED FOR COUNCIL AMENDMENT			
	3	RT	JS	GM	SA								22/11/2022	COUNCIL AMENDMENTS			
	4	RT	JS	GM	SA								25/11/2022	CLIENT AMENDMENTS			
							AUTHORISED FOR ISSUE:										
							BY: SINA ARBABZADEH MEng (Civil) MIEAust CPEng NER	SIGN: 									
							DATE: 25/11/2022										
														PROJECT No. 21-000381	DRAWING No. 407	STAGE DA	REVISION 4

FILE: I:\DRAWING\BROWMAN\LOCAL\PROJECTS\2021\2021-000381 - OSL - GURNER AVENUE, AUSTRALIA\06. MODEL\AUTOCAD\CIVIL\DWG\2021-000381 - WEST_ID-DWG.DWG LAST SAVED BY: PETER SPINARD



FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE	CLIENT	PROJECT	DRAWING TITLE	
1	AV	MZ	EF	EF	27/10/2021		FOR DEVELOPMENT APPLICATION	SCALE 1:500 (A1) SCALE 1:100 (A1)		OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (WEST)	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.16 & 17	
2	AV	MZ	RT	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT	SCALE 1:500 (A1) SCALE 1:100 (A1)					
3	RT	JS	GM	SA	22/11/2022	COUNCIL AMENDMENTS	SCALE 1:500 (A1) SCALE 1:100 (A1)					
4	RT	JS	GM	SA	25/11/2022	CLIENT AMENDMENTS	SCALE 1:500 (A1) SCALE 1:100 (A1)					
							AUTHORISED FOR ISSUE: BY: SINA ARBAZADEH MEng (Civil) MIEAust CPEng NER DATE: 25/11/2022					
© 2022 calibregroup.com												
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY												
							PROJECT No. 21-000381	DRAWING No. 408	STAGE DA	REVISION 4		