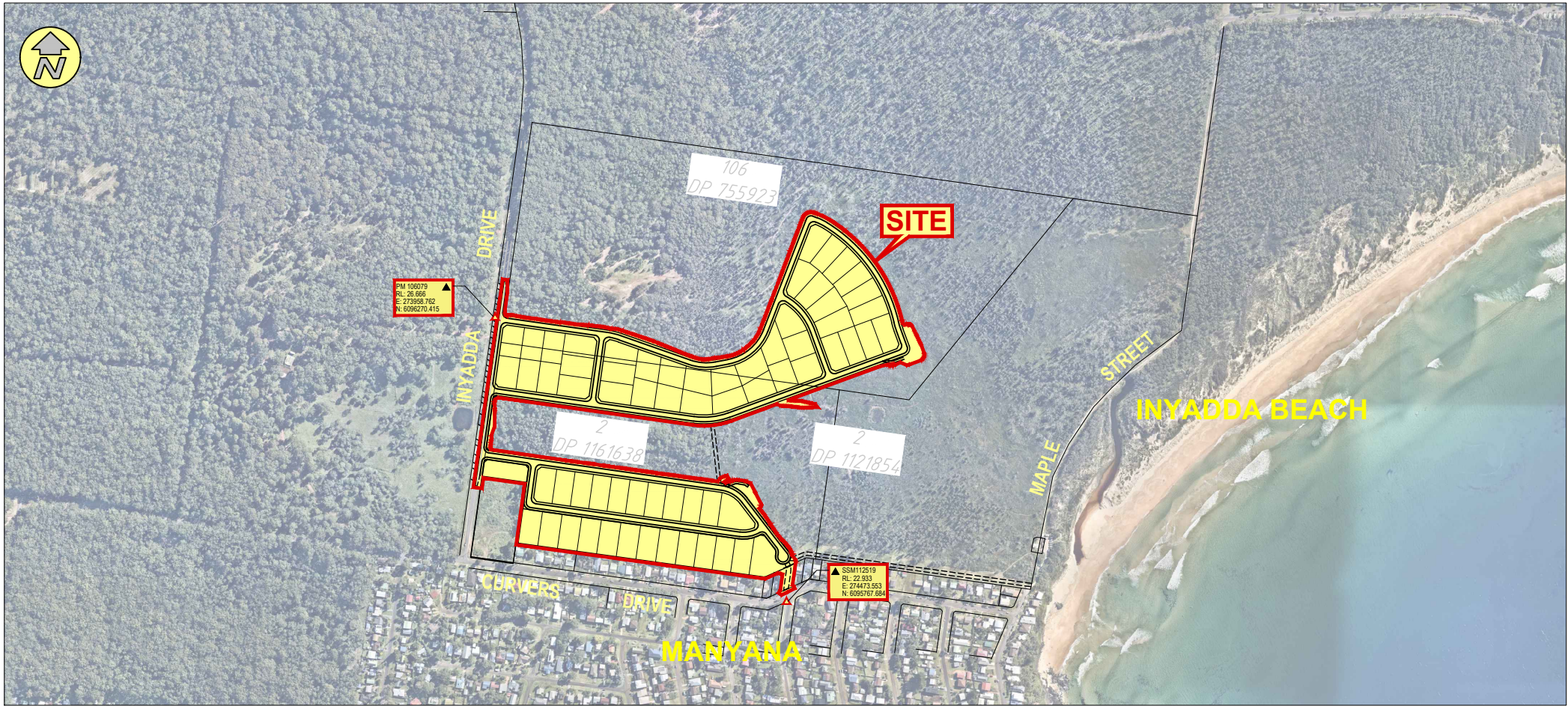


INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN



ISSUED FOR DEVELOPMENT APPLICATION



LOCALITY PLAN
N.T.S.

LGA SHOALHAVEN CITY COUNCIL

CLIENT:
HEIR ASQUITH

LOT 1 D.P.1161638
LOT 2 D.P.1121854
LOT 106 D.P.755923



DRAWING LIST

No.	SHEET TITLE
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 - SHEET 01 OF 02
103	SOIL & WATER MANAGEMENT PLAN - SHEET 02 OF 02
SITE REGRADING	
201	SITE REGRADING PLAN - SHEET 01 OF 02
202	SITE REGRADING PLAN - SHEET 02 OF 02
203	SITE SECTIONS - SHEET 01 OF 02
204	SITE SECTIONS - SHEET 02 OF 02
ENGINEERING PLANS	
301	ENGINEERING PLAN - 01 OF 05
302	ENGINEERING PLAN - 02 OF 05
303	ENGINEERING PLAN - 03 OF 05
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305	ENGINEERING PLAN - 05 OF 05
ROAD LONGITUDINAL SECTIONS	
401	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.01
402	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.01 (CONT.)
403	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.01 (CONT.)
404	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.02 & 03
405	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.06
406	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.07
WATER QUALITY DETAILS	
850	BASIN No.01 PLAN & DETAILS
851	BASIN No.02 PLAN & DETAILS
852	CATCHMENT PLAN
853	SANDSTONE LOGWALL, BLOCKWALL & GRASSED ROADSIDE SWALE DETAILS
854	CONCEPT PEDESTRIAN FOOT BRIDGE DETAILS

INYADDA DRIVE, MANYANA
ROAD & DRAINAGE DESIGN



LEGEND

EXTENT OF WORKS

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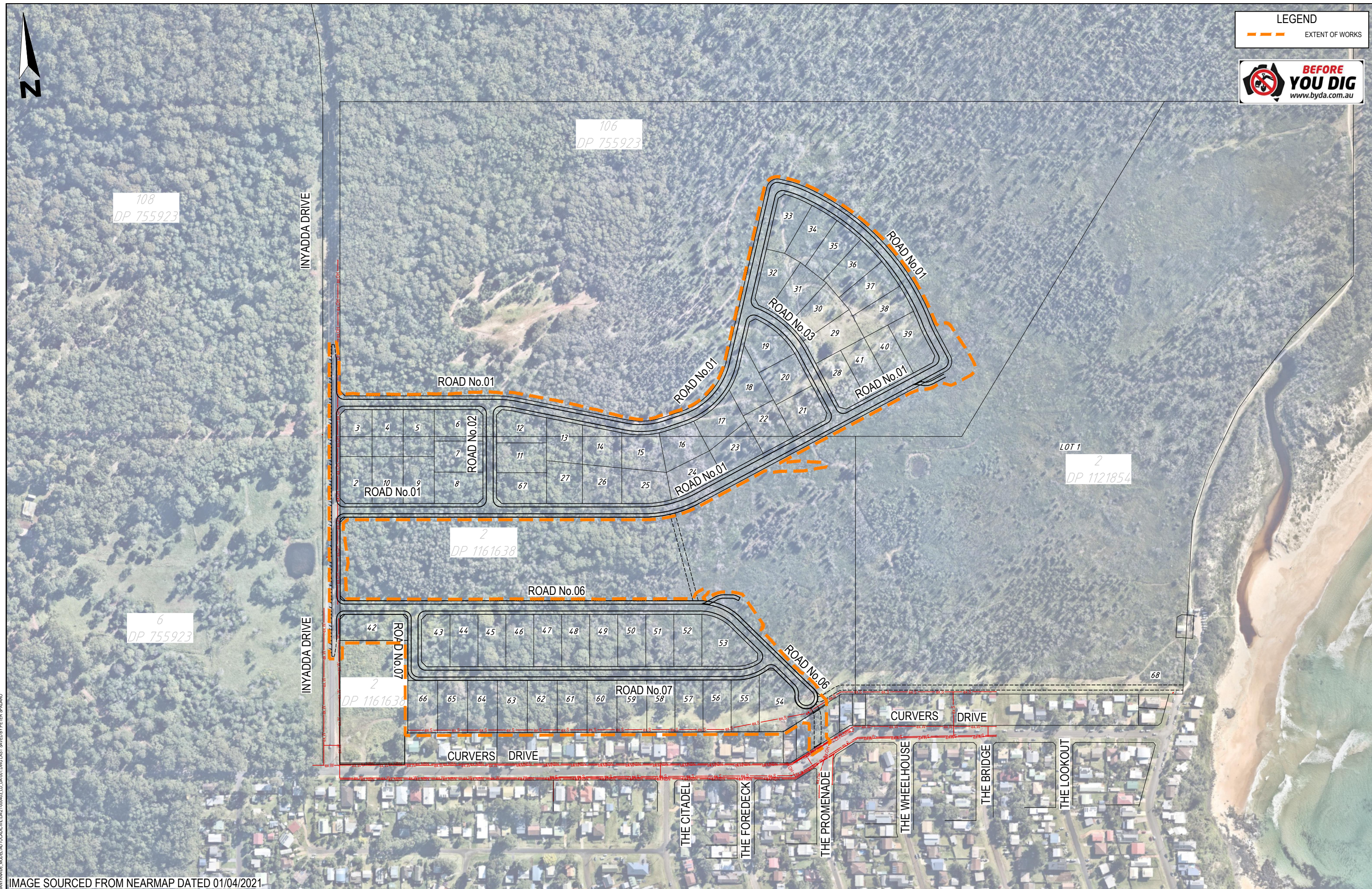


IMAGE SOURCED FROM NEARMAP DATED 01/04/2021

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS		STATUS	FOR DEVELOPMENT APPLICATION		SCALE	CLIENT	PROJECT		DRAWING TITLE						
		AW	JS	SA	EF	14/12/2021			ISSUED FOR DEVELOPMENT APPLICATION				HEIR ASQUITH		INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN	GENERAL ARRANGEMENT PLAN						
	1	AW	AW	SA	EF	12/01/2022																
	2	LF	PS	SA	SA	30/06/2023																
	3	LF	PS	JH	EF	19/10/2023	MINOR COMMENTS		AUTHORISED FOR ISSUE: BY: ENRIQUE FRANCO SIGN:  BE(Hons) MIEAust. CPEng NER DATE: 19/10/23													
									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				www.egis-group.com © 2023 Egis Consulting Pty Ltd									
									PROJECT TITLE GENERAL ARRANGEMENT PLAN			PROJECT No. 21-000403	DRAWING No. 001	STAGE DA	REVISION 3							



IMAGE SOURCED FROM NEARMAP DATED 01/04/2021

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
	1	AW	JS	SA	EF	14/12/2021	ISSUED FOR DEVELOPMENT APPLICATION
	2	AW	AW	SA	EF	12/01/2022	ISSUED TO SUIT COUNCIL COMMENTS
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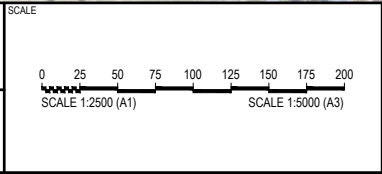
STATUS

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:

BY: ENRIQUE FRANCO SIGN:  DATE: 19/10/23

BE(Hons) MIEAust. CPEng NER



CLIENT

HEIR ASQUITH



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PROJECT

INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN

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DRAWING TITLE			
SHEET LAYOUT PLAN			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	002	DA	3

GENERAL NOTES

GENERAL

- G1.

ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH SHOALHAVEN COUNCIL DESIGN GUIDELINES AND SHOALHAVEN 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.

EGIS GENERAL

- EC1.

SURVEY SOURCED FROM:
-SURVEYOR: EGIS
-D.T.M.: 211029 Detail Survey 1.dwg DATED 11/10/2021
-ALL FILES ARE ON MGA56 GDA 2020 CO-ORDINATE SYSTEM
- EC2.

CONTRACTOR IS TO ENSURE THAT ALL WORKS ASSOCIATED WITH PROPERTY BOUNDARIES ARE TO BE SET OUT OR VERIFIED BY A REGISTERED SURVEYOR
- EC3.

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.
- EC4.

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 EGIS 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 EGIS, 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
SITE BOUNDARY			
STORMWATER PIPELINE			
STORMWATER DRAINAGE PITS			
DRAINAGE LINE No. 3 DRAINAGE PIT No. 10			
CONCRETE HEADWALL			
CULVERT CROSSING			
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			
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			
LIMIT OF CONSTRUCTION			
FENCE POST AND RAIL FENCE SECURITY FENCE			
LOT NUMBERS			
RETAINING WALL			
SANDSTONE LOG WALL			
ROCK WALL			
ROOF WATER OUTLET TO KERB			
ROOF WATER OUTLET TO BACK OF PIT			
EXISTING TREES			
EXISTING TREES		EXISTING TREES TO BE RETAINED	EXISTING TREES TO BE REMOVED



FILE: H2121-000403 - INYADDA DRIVE, MANYANA NSW, MODEL AUTO-CAD/REVIT/ENVI/000403.LD - 24-03-2024 LAST SAVED BY PAMA.SEBODIAN

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
1	AW	JS	SA	EF	14/12/2021	
2	AW	AW	SA	EF	12/01/2022	ISSUED FOR DEVELOPMENT APPLICATION
3	LF	PS	SA	SA	30/06/2023	ISSUED TO SUIT COUNCIL COMMENTS
	LF	PS	JH	EF	19/10/2023	MINOR COMMENTS

STATUS		FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:		BY: ENRIQUE FRANCO	SIGN:
		BE(Hons) MIEAust. CPEng NER	DATE: 19/10/23

SCALE	CLIENT
	HEIR ASQUITH

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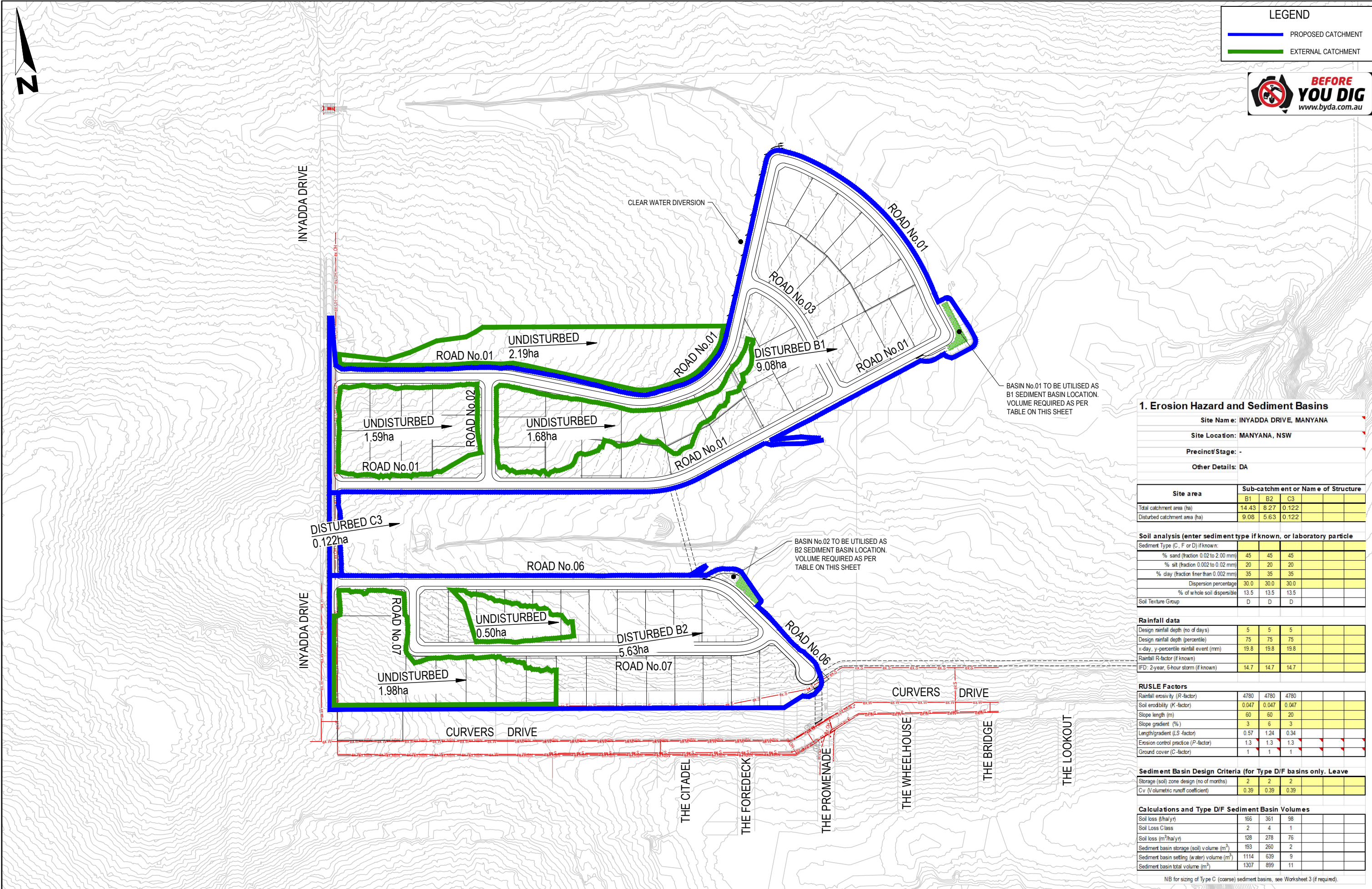
PROJECT
INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN
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DRAWING TITLE			
GENERAL NOTES & LEGEND			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	003	DA	3



IMAGE SOURCED FROM NEARMAP DATED 01/04/2021

AMENDMENTS						STATUS		SCALE		CLIENT		PROJECT		DRAWING TITLE	
FIRST	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS		0 20 40 60 80 100 120 140 160		HEIR ASQUITH		INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN		DEMOLITION PLAN	
1	AW	AW	SA	EF	14/12/2021	ISSUED FOR DEVELOPMENT APPLICATION		SCALE 1:2000 (A1)		 www.egis-group.com © 2023 Egis Consulting Pty Ltd		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. 21-000403 DRAWING No. 004 STAGE DA REVISION 3	
2	LF	PS	SA	SA	30/06/2023	ISSUED TO SUIT COUNCIL COMMENTS		SCALE 1:4000 (A3)							
3	LF	PS	JH	EF	19/10/2023	MINOR COMMENTS									
						AUTHORISED FOR ISSUE:									
						BY: ENRIQUE FRANCO		SIGN: 							
						BE(Hons) MIEAust. CPEng NER									
						DATE: 19/10/23									



LEGEND

PROPOSED CATCHMENT

EXTERNAL CATCHMENT

1. Erosion Hazard and Sediment Basins					
Site Name: INYADDA DRIVE, MANYANA					
Site Location: MANYANA, NSW					
Precinct/Stage: -					
Other Details: DA					
Site area	Sub-catchment or Name of Structure				
	B1	B2	C3		
Total catchment area (ha)	14.43	8.27	0.122		
Disturbed catchment area (ha)	9.08	5.63	0.122		
Soil analysis (enter sediment type if known, or laboratory particle)					
Sediment Type (C, F or D) if known:					
% sand (fraction 0.02 to 2.00 mm)	45	45	45		
% silt (fraction 0.002 to 0.02 mm)	20	20	20		
% clay (fraction finer than 0.002 mm)	35	35	35		
Dispersion percentage	30.0	30.0	30.0		
% of whole soil dispersible	13.5	13.5	13.5		
Soil Texture Group	D	D	D		
Rainfall data					
Design rainfall depth (no of days)	5	5	5		
Design rainfall depth (percentile)	75	75	75		
x-day, y-percentile rainfall event (mm)	19.8	19.8	19.8		
Rainfall R-factor (if known)					
IFD: 2-year, 6-hour storm (if known)	14.7	14.7	14.7		
RUSLE Factors					
Rainfall erosivity (R-factor)	4780	4780	4780		
Soil erodibility (K-factor)	0.047	0.047	0.047		
Slope length (m)	60	60	20		
Slope gradient (%)	3	6	3		
Length/gradient (LS factor)	0.57	1.24	0.34		
Erosion control practice (P-factor)	1.3	1.3	1.3		
Ground cover (C-factor)	1	1	1		
Sediment Basin Design Criteria (for Type D/F basins only. Leave					
Storage (soil) zone design (no of months)	2	2	2		
Cv (volumetric runoff coefficient)	0.39	0.39	0.39		
Calculations and Type D/F Sediment Basin Volumes					
Soil loss (t/ha/yr)	166	361	98		
Soil Loss Class	2	4	1		
Soil loss (m ³ /ha/yr)	128	278	76		
Sediment basin storage (soil) volume (m ³)	193	260	2		
Sediment basin settling (water) volume (m ³)	1114	639	9		
Sediment basin total volume (m ³)	1307	899	11		
NB for sizing of Type C (coarse) sediment basins, see Worksheet 3 (if required).					

FILE: H2121-000403 - INYADDA DRIVE, MANYANA, MODEL AUTO GENERATED, LD, DA-101 DWG LAST SAVED BY PAMA, SEDIMENT PLAN

FIRST	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
1	AW	JS	SA	EF	14/12/2021	
2	LF	PS	SA	SA	30/06/2023	ISSUED FOR DEVELOPMENT APPLICATION
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STATUS

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO
BE(Hons) MIEAust, CPEng NER

SIGN:

DATE: 19/10/23

SCALE

0 20 40 60 80 100 120 140 160

SCALE 1:2000 (A1)

SCALE 1:4000 (A3)

CLIENT

HEIR ASQUITH

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PROJECT

INYADDA DRIVE, MANYANA
ROAD & DRAINAGE DESIGN

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DRAWING TITLE

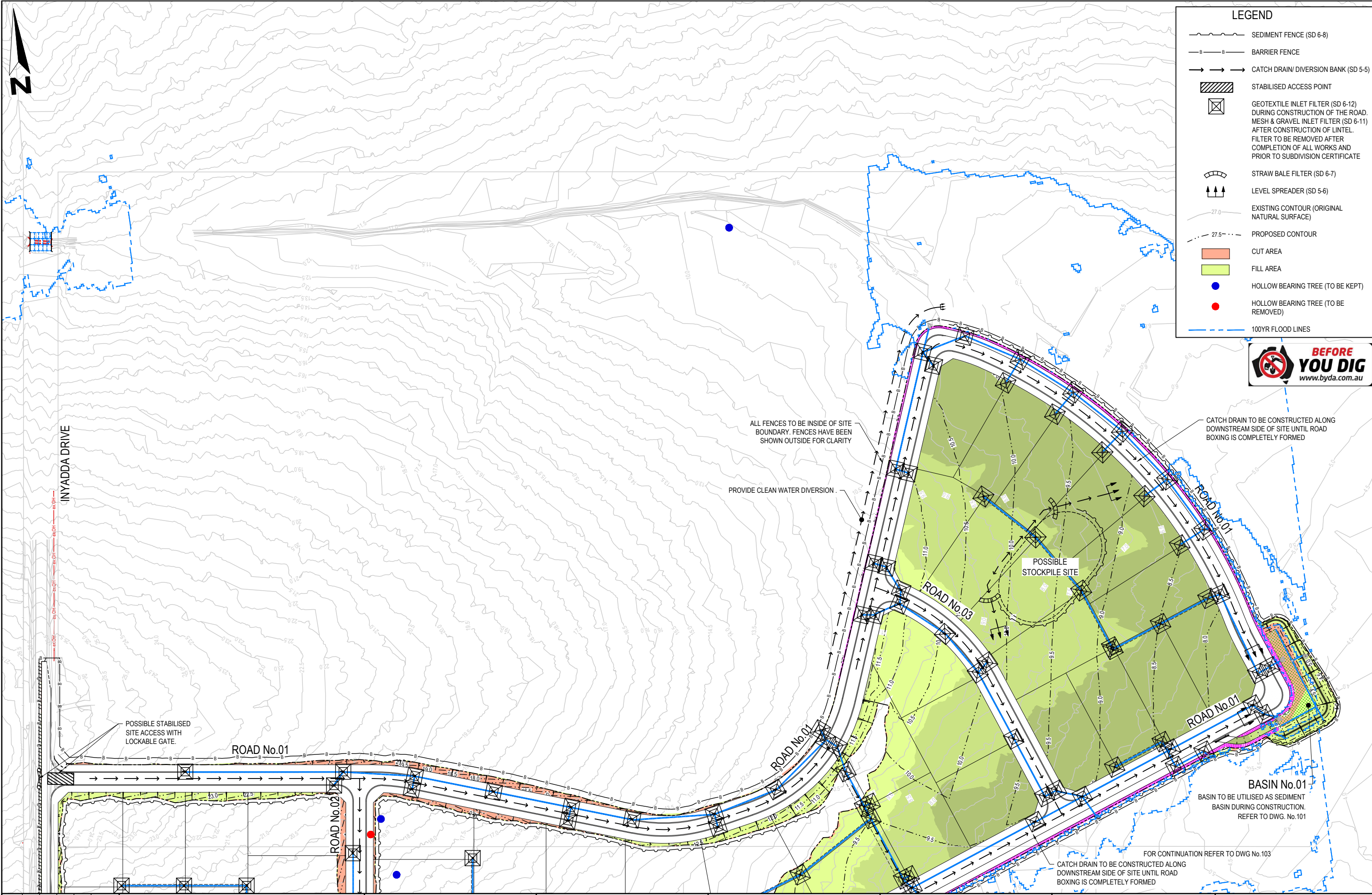
SEDIMENT BASIN CATCHMENT
PLAN

PROJECT No: 21-000403

DRAWING No: 101

STAGE: DA

REVISION: 3



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

HOLLOW BEARING TREE (TO BE KEPT)

HOLLOW BEARING TREE (TO BE
REMOVED)

100YR FLOOD LINES



ALL FENCES TO BE INSIDE OF SITE
BOUNDARY. FENCES HAVE BEEN
SHOWN OUTSIDE FOR CLARITY

PROVIDE CLEAN WATER DIVERSION .

CATCH DRAIN TO BE CONSTRUCTED ALONG
DOWNSTREAM SIDE OF SITE UNTIL ROAD
BOXING IS COMPLETELY FORMED

POSSIBLE
STOCKPILE SITE

POSSIBLE STABILISED
SITE ACCESS WITH
LOCKABLE GATE.

BASIN No.01
BASIN TO BE UTILISED AS SEDIMENT
BASIN DURING CONSTRUCTION.
REFER TO DWG. No.101

FOR CONTINUATION REFER TO DWG No.103
CATCH DRAIN TO BE CONSTRUCTED ALONG
DOWNSTREAM SIDE OF SITE UNTIL ROAD
BOXING IS COMPLETELY FORMED

AMENDMENT DETAILS					
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE
1	AW	JS	SA	EF	14/12/2021
2	AW	AW	SA	EF	12/01/2022
3	LF	PS	SA	SA	30/06/2023
4	LF	PS	JH	EF	19/10/2023

STATUS	
ISSUED FOR DEVELOPMENT APPLICATION	
ISSUED TO SUIT COUNCIL COMMENTS	
MINOR COMMENTS	

FOR
DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO SIGN:
BE(Hons) MIEAust. CPEng NER
DATE: 19/10/23

SCALE

SCALE 1:1000 (A1) SCALE 1:2000 (A3)

CLIENT
HEIR ASQUITH

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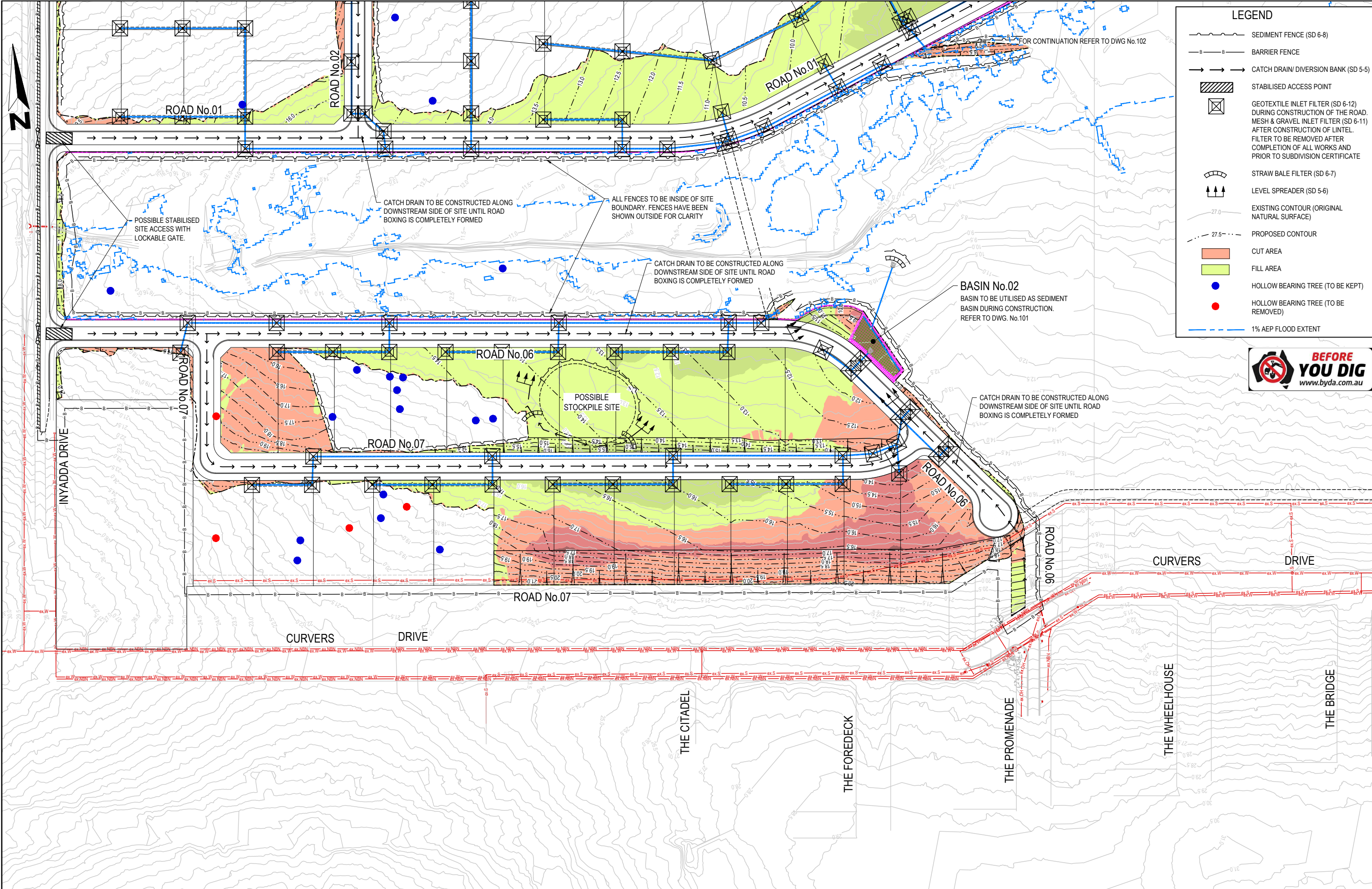
PROJECT
**INYADDA DRIVE, MANYANA
ROAD & DRAINAGE DESIGN**

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 - SHEET 01 OF 02**

PROJECT No. 21-000403 DRAWING No. 102 STAGE DA REVISION 3

FILE: H2121-000403 - INYADDA DRIVE, MANYANA, MODEL AUTO CAD DWG (A1) 000403.LD DA-102 DWG LAST SAVED BY LAURO FAGEL



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
- HOLLOW BEARING TREE (TO BE KEPT)
- HOLLOW BEARING TREE (TO BE REMOVED)
- 1% AEP FLOOD EXTENT



FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
	AW	JS	SA	EF	14/12/2021	
	AW	AW	SA	EF	12/01/2022	
	LF	PS	SA	SA	30/06/2023	
AMENDMENT	2	LF	PS	SA	30/06/2023	ISSUED TO SUIT COUNCIL COMMENTS
	3	LF	PS	JH	EF	
MINOR COMMENTS						

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO SIGN: DATE: 19/10/23
BE(Hons) MIEAust. CPEng NER

SCALE

0 10 20 30 40 50 60 70 80

SCALE 1:1000 (A1) SCALE 1:2000 (A3)

CLIENT

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PROJECT

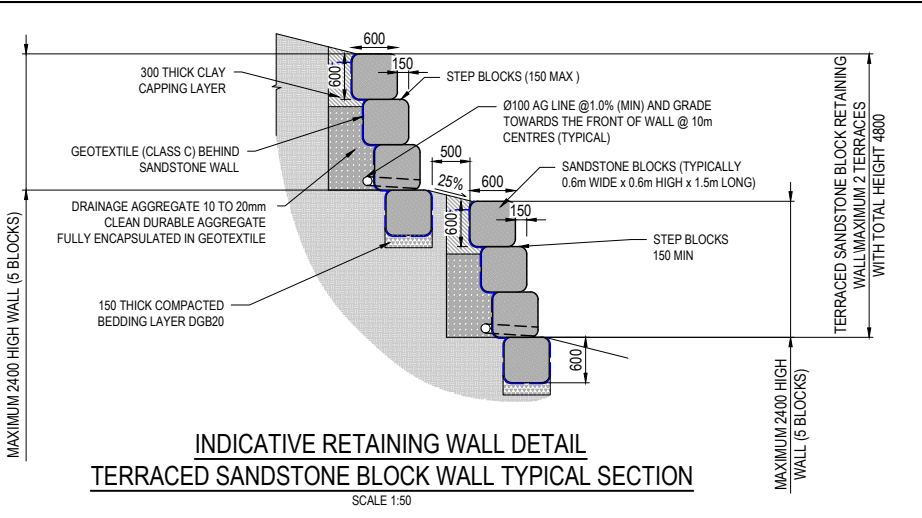
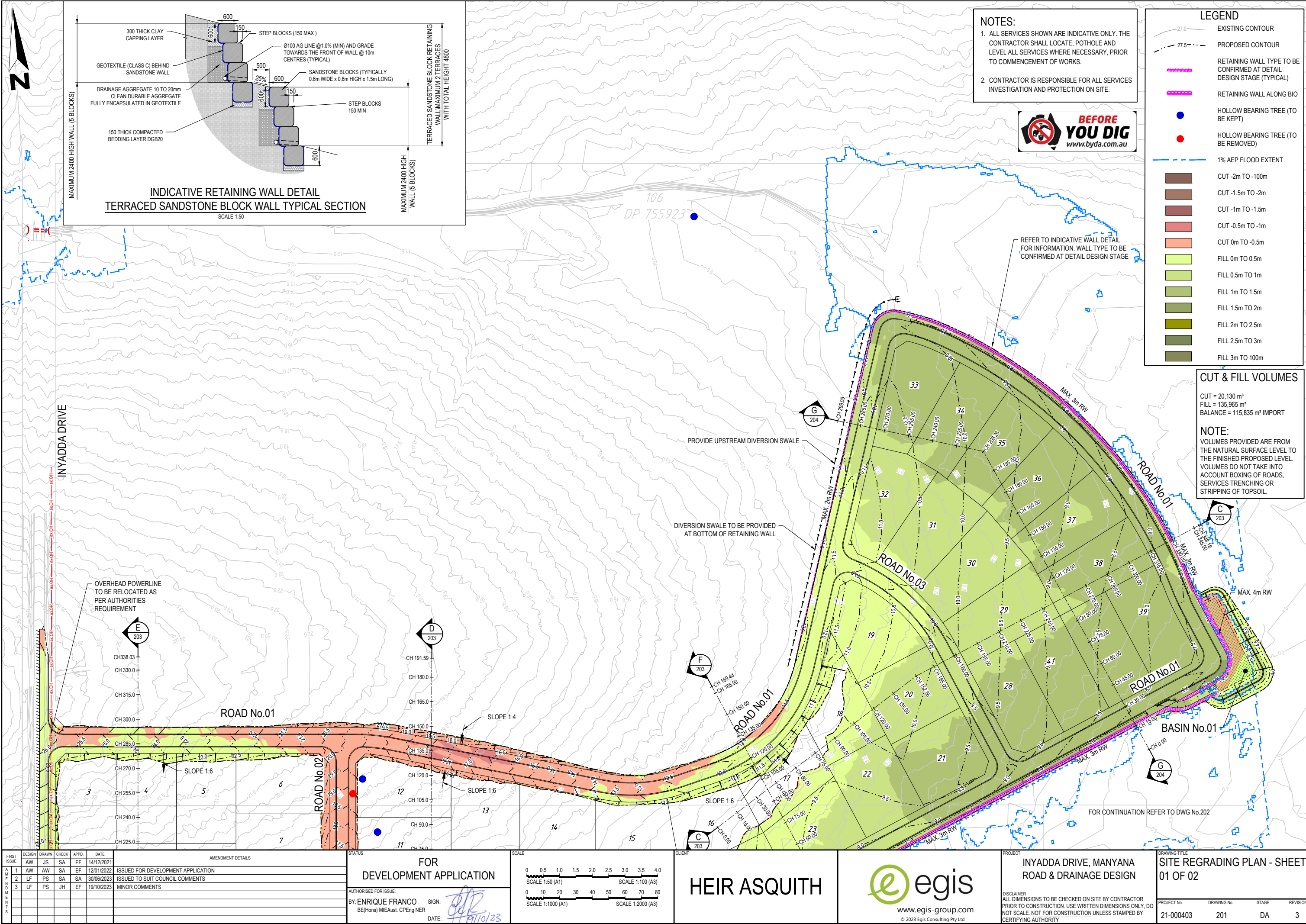
INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN

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 - SHEET 02 OF 02

PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	103	DA	3



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.



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- RETAINING WALL TYPE TO BE CONFIRMED AT DETAIL DESIGN STAGE (TYPICAL)
- RETAINING WALL ALONG BIO
- HOLLOW BEARING TREE (TO BE KEPT)
- HOLLOW BEARING TREE (TO BE REMOVED)
- 1% AEP FLOOD EXTENT
- CUT -2m TO -100m
- CUT -1.5m TO -2m
- CUT -1m TO -1.5m
- CUT -0.5m TO -1m
- CUT 0m TO -0.5m
- FILL 0m TO 0.5m
- FILL 0.5m TO 1m
- FILL 1m TO 1.5m
- FILL 1.5m TO 2m
- FILL 2m TO 2.5m
- FILL 2.5m TO 3m
- FILL 3m TO 100m

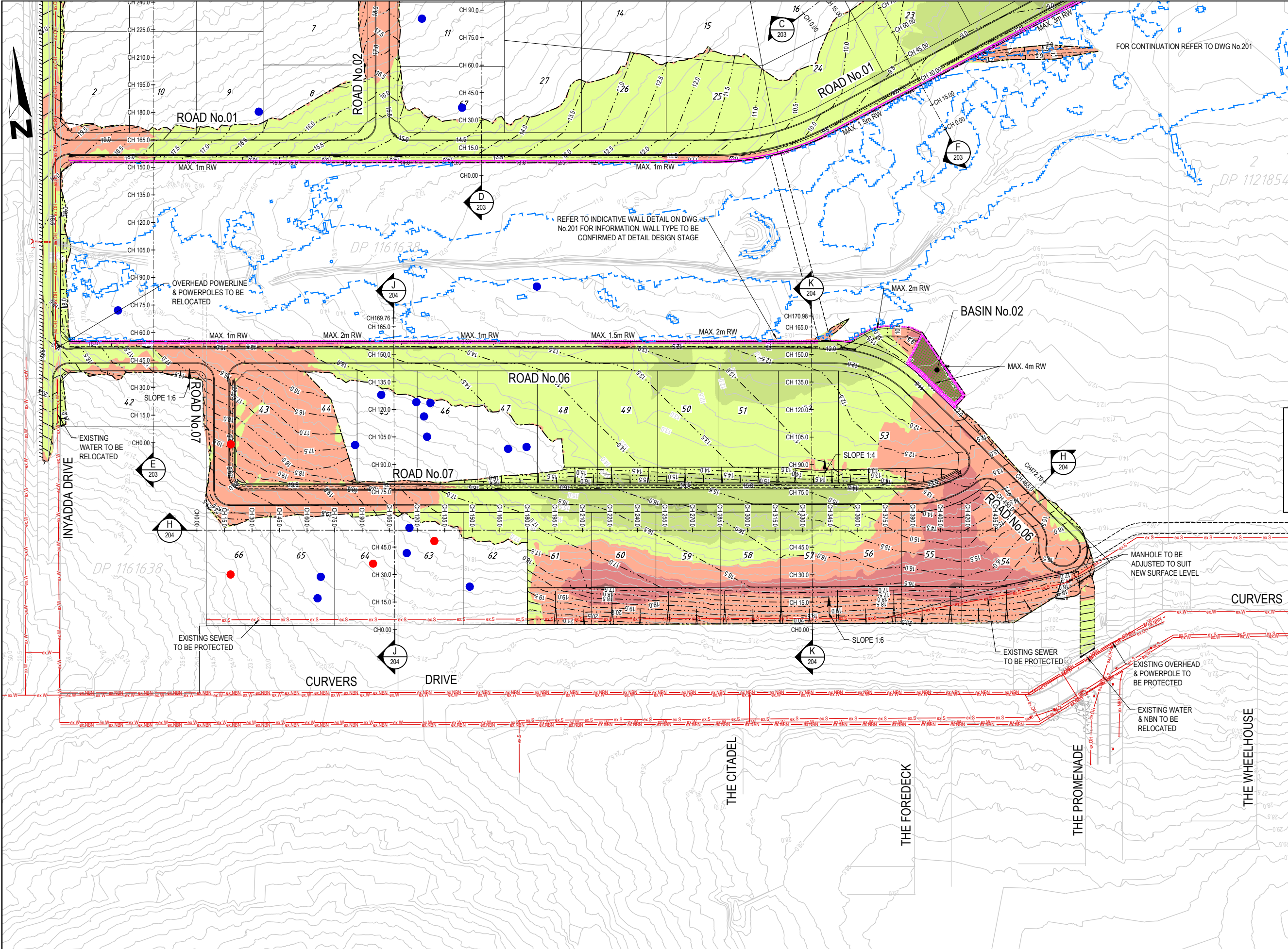
CUT & FILL VOLUMES

CUT = 20,130 m³
FILL = 135,965 m³
BALANCE = 115,835 m³ IMPORT

NOTE:
VOLUMES PROVIDED ARE FROM THE NATURAL SURFACE LEVEL TO THE FINISHED PROPOSED LEVEL. VOLUMES DO NOT TAKE INTO ACCOUNT BOXING OF ROADS, SERVICES TRENCHING OR STRIPPING OF TOPSOIL.

DESIGN					DRAWN					CHECK					APPD.					DATE					AMENDMENT DETAILS										STATUS										SCALE										CLIENT										PROJECT										DRAWING TITLE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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FILE: H2121-000403 - INYADDA DRIVE, MANYANA, MODEL AUTO CAD DWG 21-000403.LD, DA-201.DWG LAST SAVED BY LAURO FAGEL



LEGEND

EXISTING CONTOUR

PROPOSED CONTOUR

RETAINING WALL TYPE TO BE CONFIRMED AT DETAIL DESIGN STAGE (TYPICAL)

RETAINING WALL ALONG BIO

HOLLOW BEARING TREE (TO BE KEPT)

HOLLOW BEARING TREE (TO BE REMOVED)

1% AEP FLOOD EXTENTS

CUT -2m TO -100m

CUT -1.5m TO -2m

CUT -1m TO -1.5m

CUT -0.5m TO -1m

CUT 0m TO -0.5m

FILL 0m TO 0.5m

FILL 0.5m TO 1m

FILL 1m TO 1.5m

FILL 1.5m TO 2m

FILL 2m TO 2.5m

FILL 2.5m TO 3m

FILL 3m TO 100m

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	APPROD.	DATE
1	AW	JS	SA	EF	14/12/2021
2	AW	SA	SA	EF	12/01/2022
3	LF	PS	SA	SA	30/06/2023
4	LF	PS	JH	EF	19/10/2023

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO
BE(Hons) MIEAust. CPEng NER

SIGN:
DATE: 19/10/23

SCALE

SCALE 1:1000 (A1)
SCALE 1:2000 (A3)

CLIENT

HEIR ASQUITH

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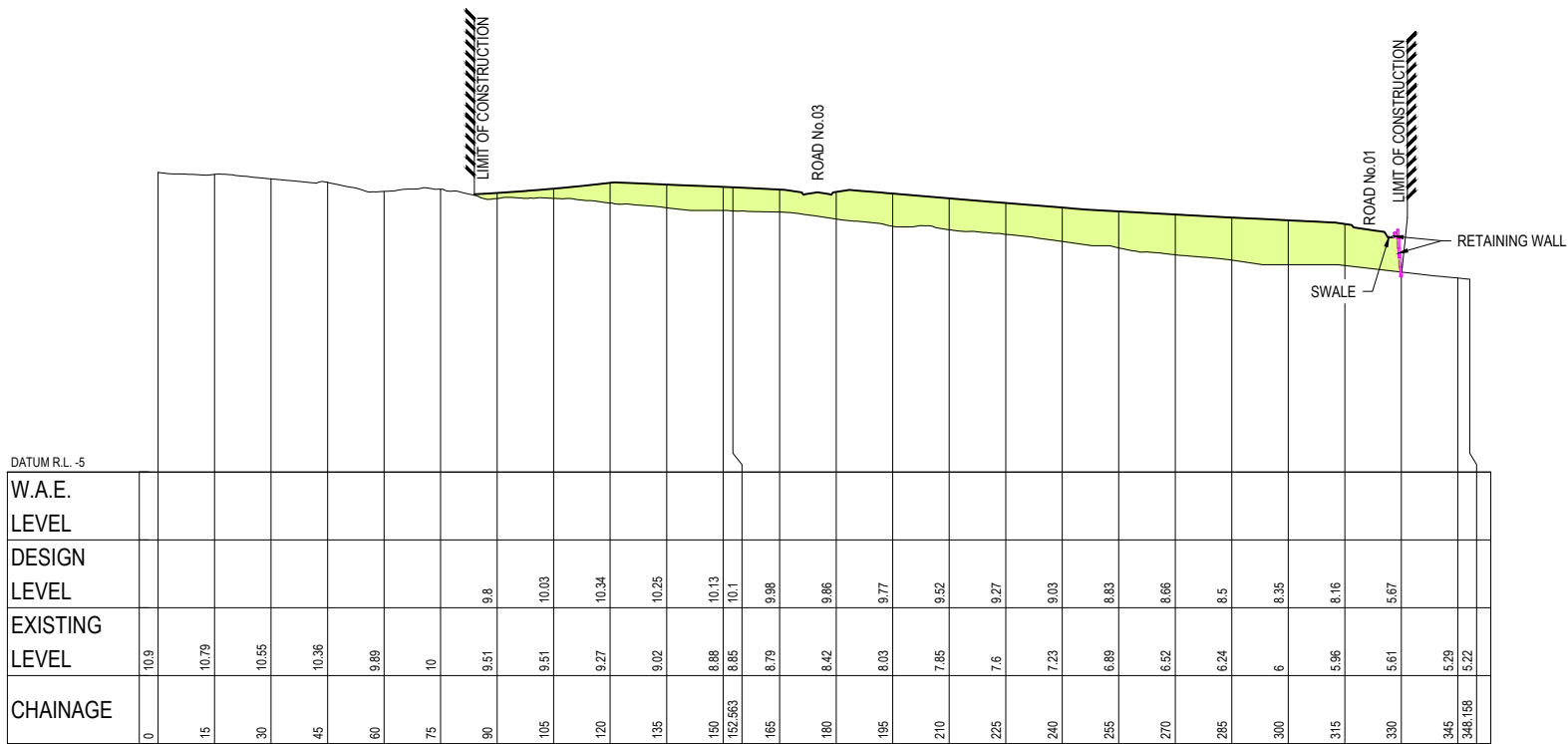
PROJECT

INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN

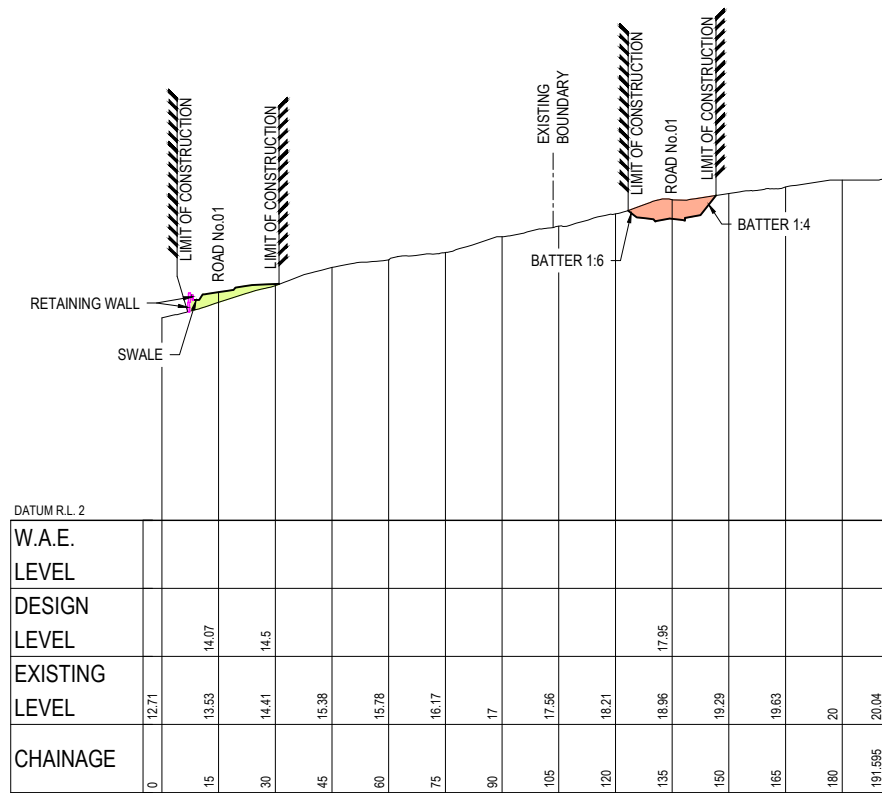
DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE			
SITE REGRADING PLAN - SHEET 02 OF 02			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	202	DA	3

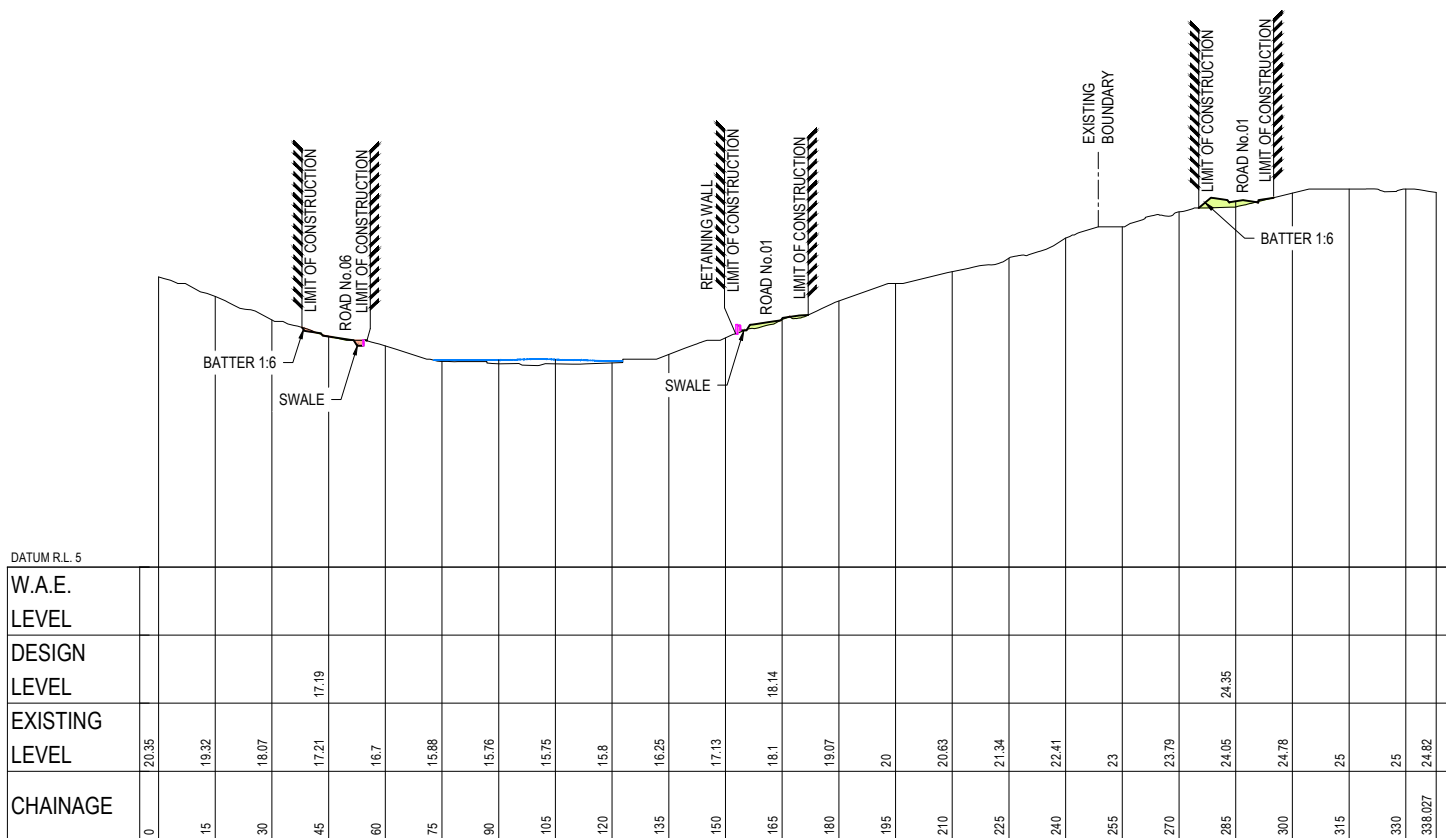
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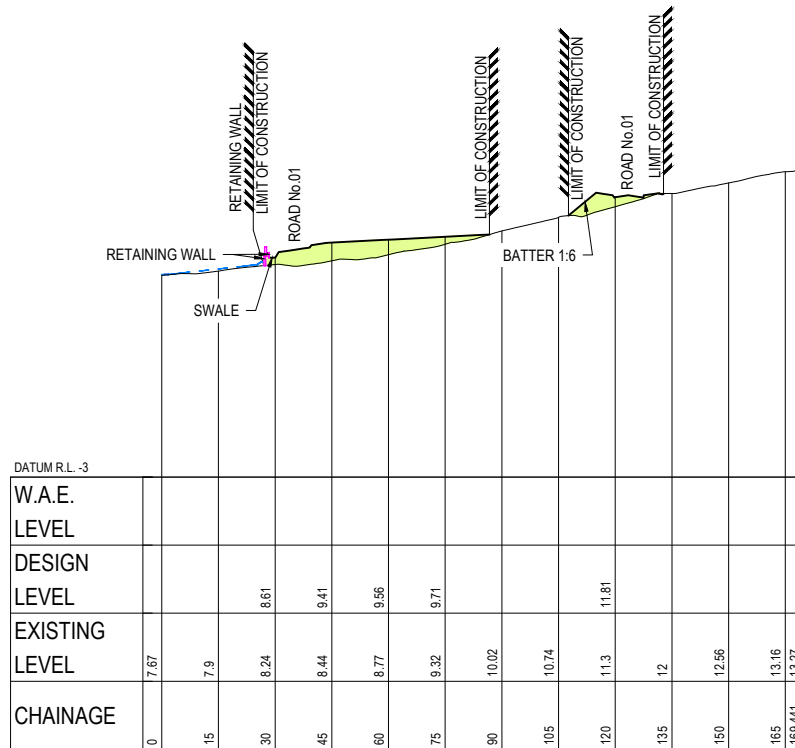
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SCALE: 1:200 (V)



SECTION D D
SCALE: 1:1000 (H)
SCALE: 1:200 (V)



SECTION E E
SCALE: 1:1000 (H)
SCALE: 1:200 (V)



SECTION F F
SCALE: 1:1000 (H)
SCALE: 1:200 (V)

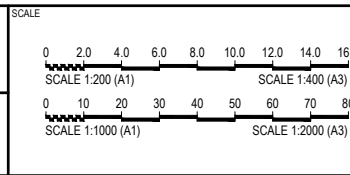
NOTE:
FOR EXISTING SURFACE INFORMATION,
REFER TO EGIS CONSULTING GENERAL
NOTE 1 ON DWG No.003.

- LEGEND
- EXISTING LEVEL
 - DESIGN LEVEL
 - CUT AREA
 - FILL AREA
 - RETAINING WALL TYPE TO BE CONFIRMED AT DETAIL DESIGN STAGE (TYPICAL)
 - APPROXIMATE LOCATION OF EXISTING SEWER
 - 1% AEP WATER LEVEL



AMENDMENT	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
	1	AW	JS	SA	EF	14/12/2021	
	2	AW	SA	EF	12/01/2022		
	3	LF	PS	SA	30/06/2023		
		PS	JH	EF	19/10/2023		MINOR COMMENTS

STATUS		FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:		BY: ENRIQUE FRANCO	SIGN:
		BE(Hons) MIEAust. CPEng NER	DATE: 19/10/23



CLIENT
HEIR ASQUITH

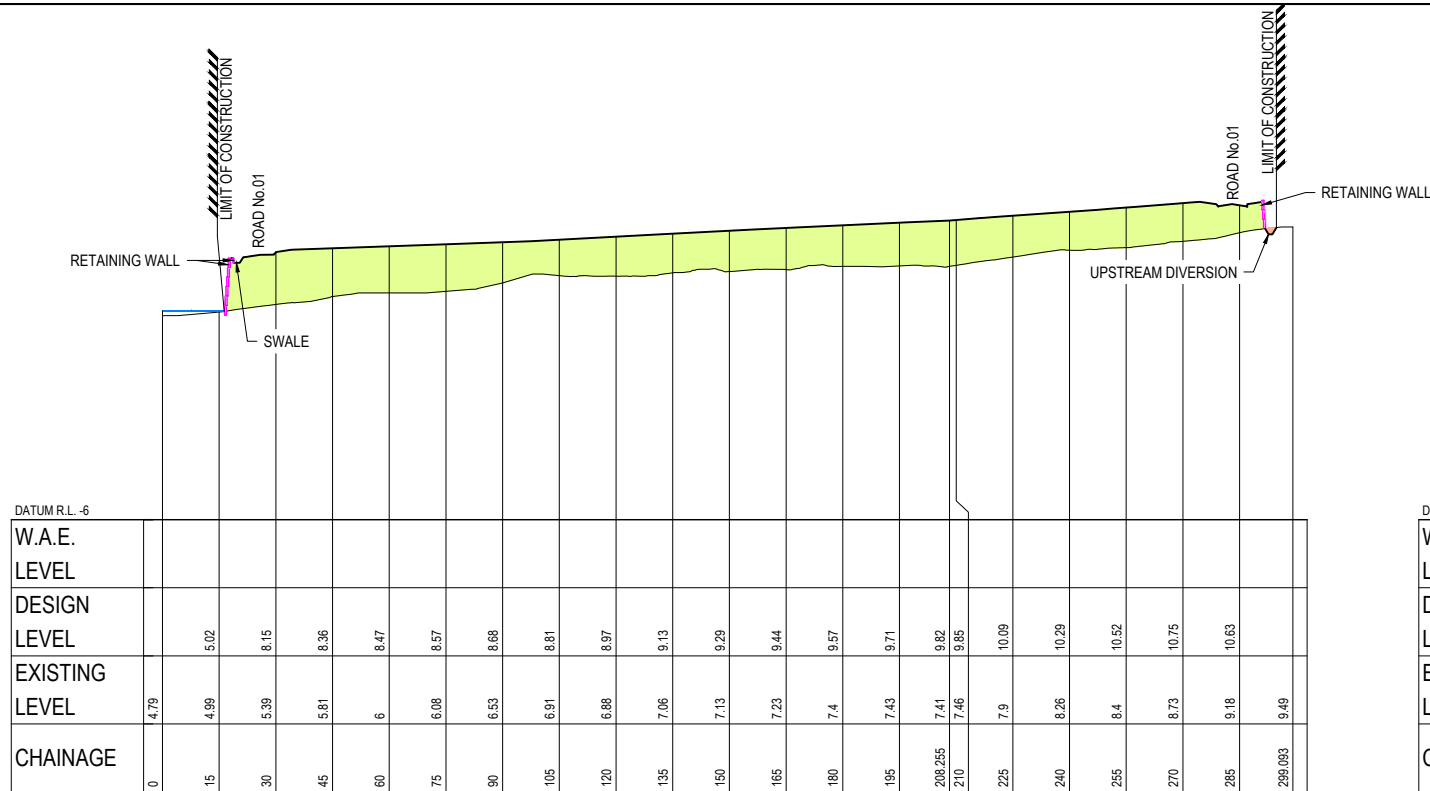


PROJECT
INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN

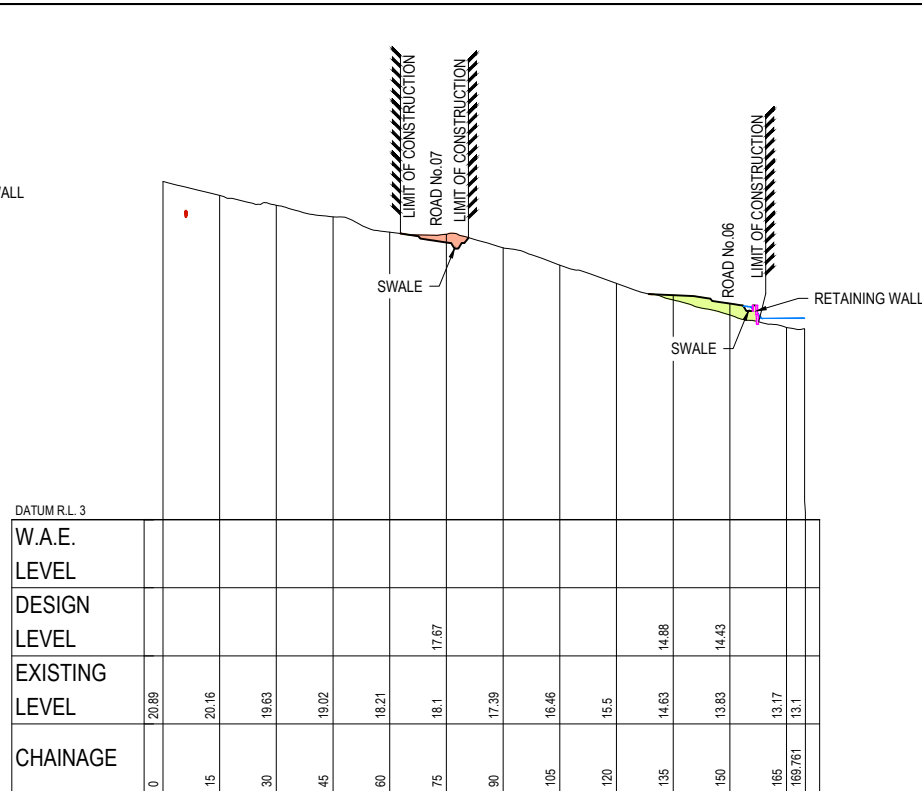
DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE				SITE SECTIONS - SHEET 01 OF 02			
PROJECT No.	DRAWING No.	STAGE	REVISION	PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	203	DA	3	21-000403	203	DA	3

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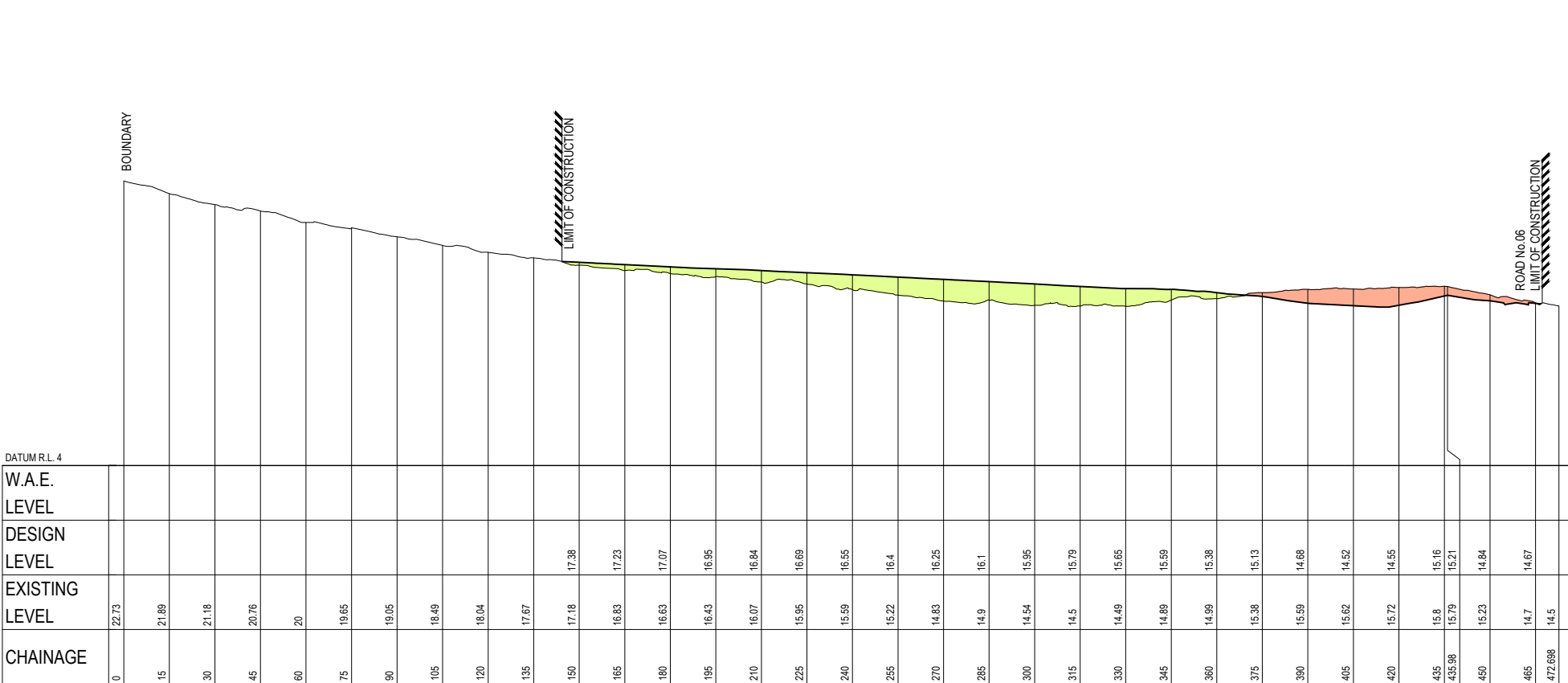
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SCALE: 1:200 (V)



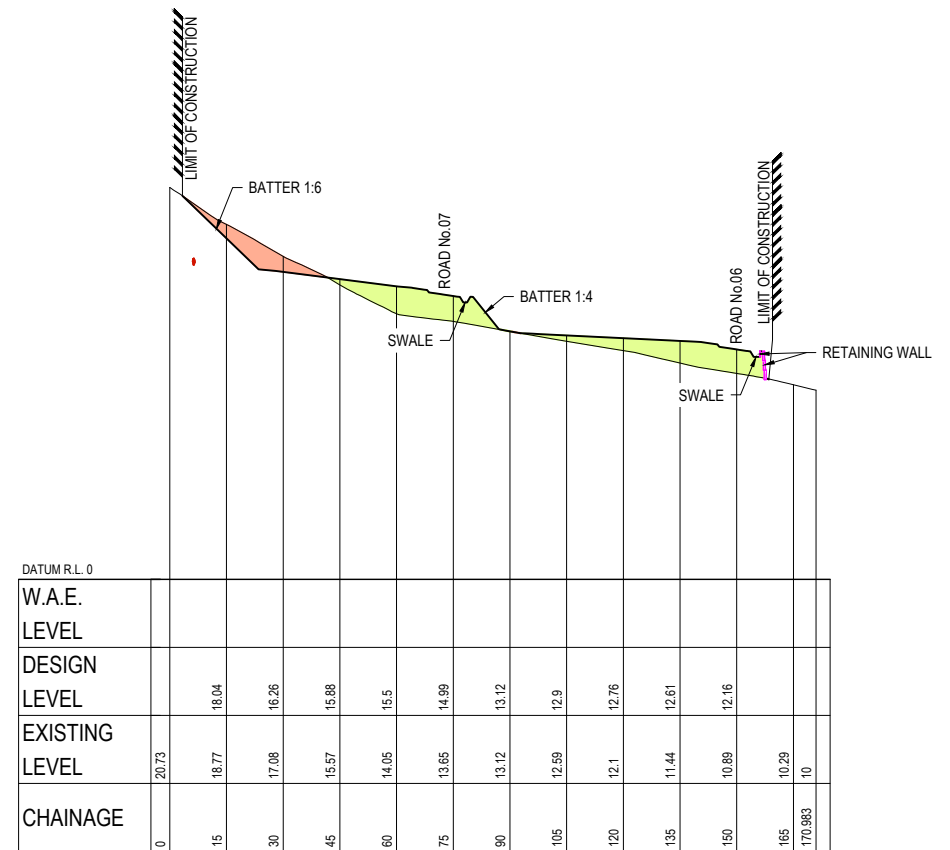
SECTION J
SCALE: 1:1000 (H)
SCALE: 1:200 (V)

NOTE:
FOR EXISTING SURFACE INFORMATION,
REFER TO EGIS CONSULTING GENERAL
NOTE 1 ON DWG No.003.

- LEGEND
- EXISTING LEVEL
 - DESIGN LEVEL
 - CUT AREA
 - FILL AREA
 - RETAINING WALL TYPE TO BE CONFIRMED AT DETAIL DESIGN STAGE (TYPICAL)
 - APPROXIMATE LOCATION OF EXISTING SEWER
 - 1% AEP WATER LEVEL



SECTION H
SCALE: 1:1000 (H)
SCALE: 1:200 (V)



SECTION K
SCALE: 1:1000 (H)
SCALE: 1:200 (V)

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
	AW	JS	SA	EF	14/12/2021	
	AW	SA	EF	12/01/2022	ISSUED FOR DEVELOPMENT APPLICATION	
	LF	PS	SA	SA	30/06/2023	
AMENDMENT DETAILS	LF	PS	JH	EF	19/10/2023	MINOR COMMENTS

STATUS

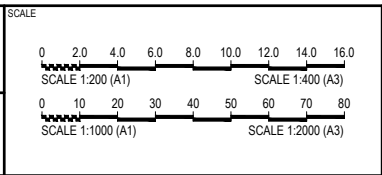
FOR
DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:

BY: ENRIQUE FRANCO SIGN: 

BE(Hons) MIEAust. CPEng NER

DATE: 17/10/23



CLIENT

HEIR ASQUITH

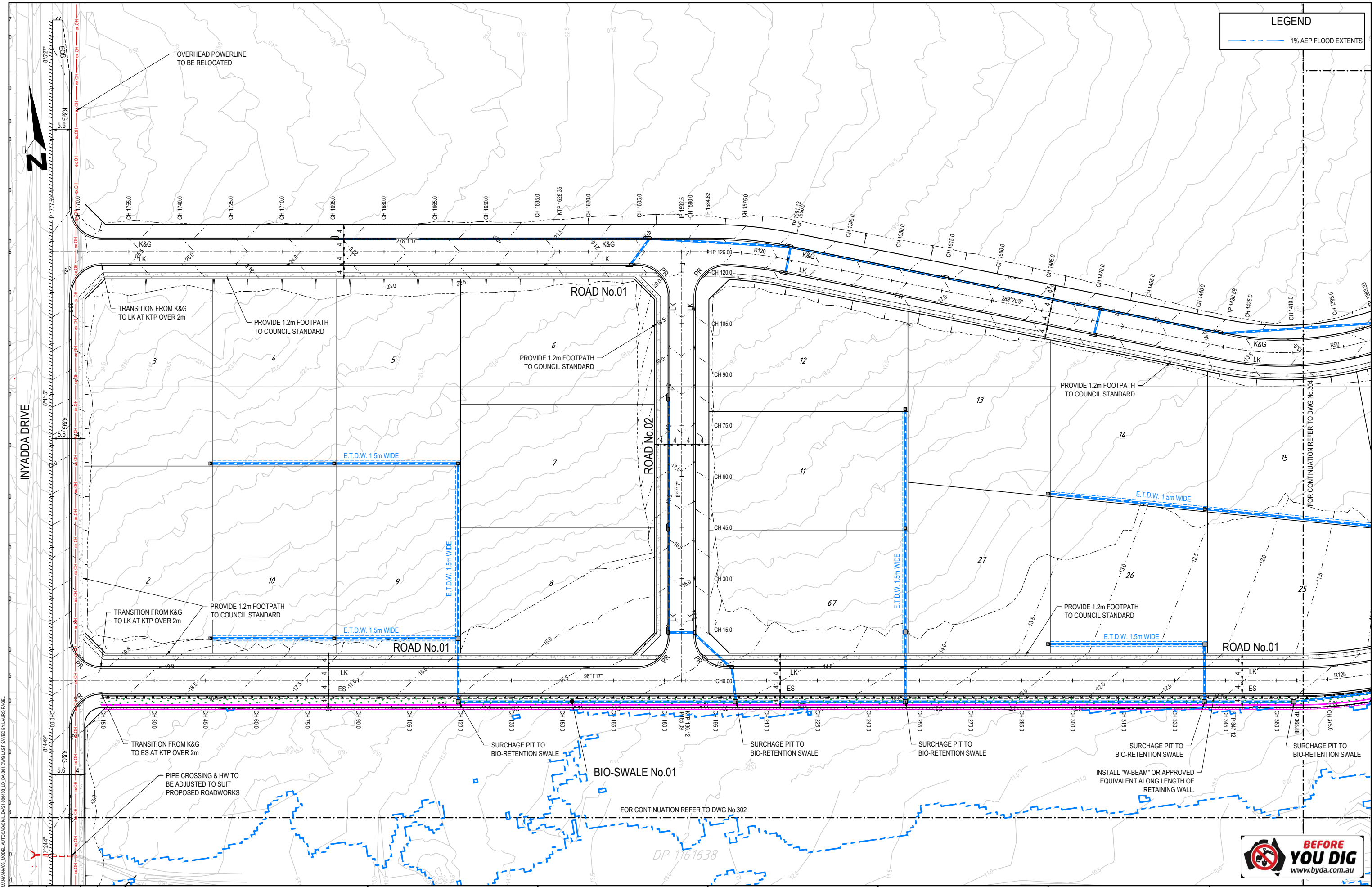


PROJECT

INYADDA DRIVE, MANYANA
ROAD & DRAINAGE DESIGN

DISCLAIMER
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PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
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CERTIFYING AUTHORITY

DRAWING TITLE			
SITE SECTIONS - SHEET 02 OF 02			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	204	DA	3



FILE: H2121-000403 - INYADDA DRIVE, MANYANA RD, MODEL AUTO CAD (V12) 000403.DWG (LAST SAVED BY LAUREN PAGE)

AMENDMENT DETAILS					
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROD.	DATE
1	AW	JS	SA	EF	14/12/2021
2	AW	AW	SA	EF	12/01/2022
3	LF	PS	SA	SA	30/06/2023
4	LF	PS	JH	EF	19/10/2023

ISSUED FOR DEVELOPMENT APPLICATION	
ISSUED TO SUIT COUNCIL COMMENTS	
MINOR COMMENTS	

STATUS

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO
BE(Hons) MIEAust. CPEng NER

SIGN:

DATE: 19/10/23

SCALE

SCALE 1:500 (A1)

SCALE 1:1000 (A3)

CLIENT

HEIR ASQUITH

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PROJECT

INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN

DISCLAIMER
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DRAWING TITLE

ENGINEERING PLAN - 01 OF 05

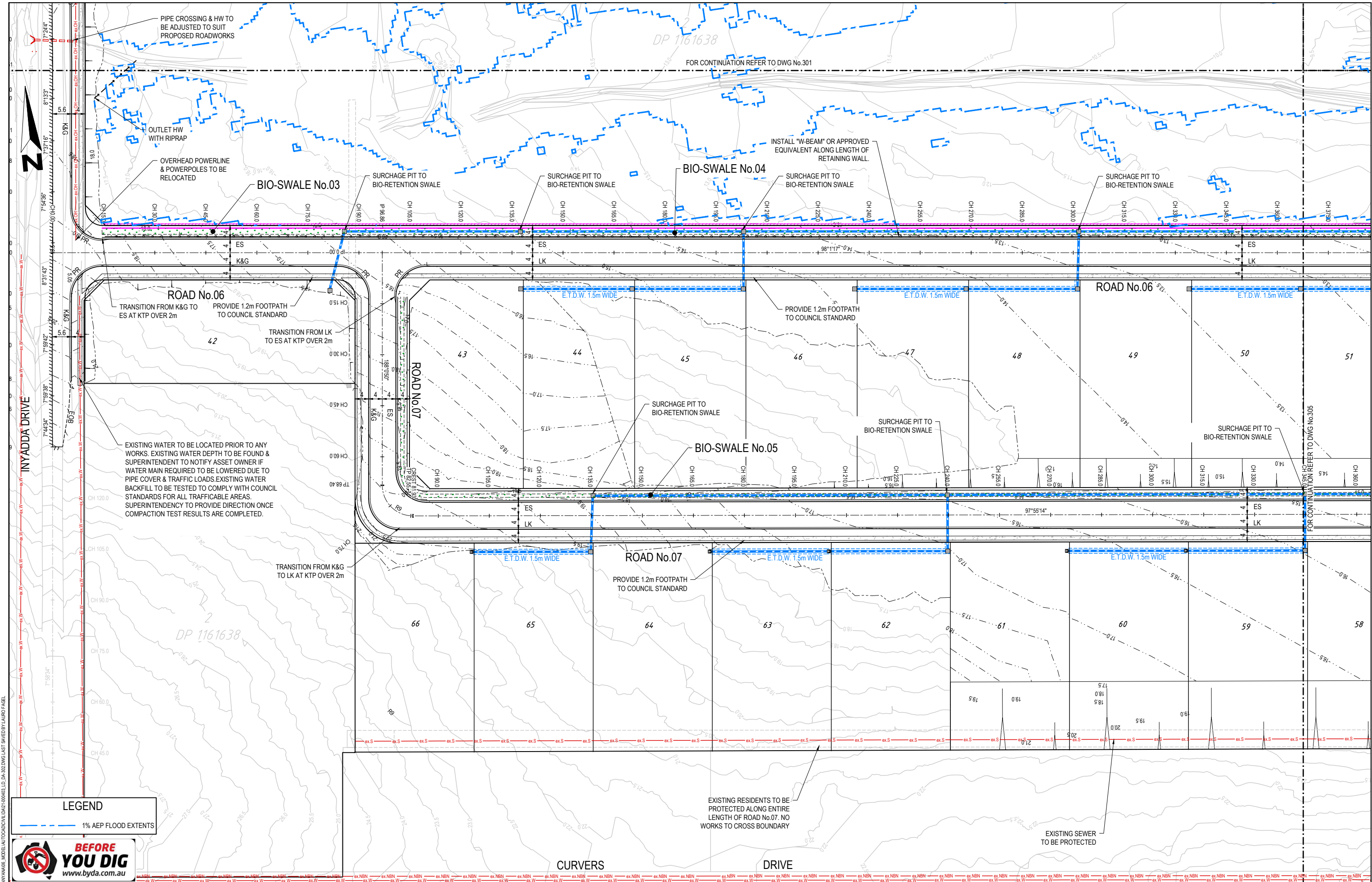
PROJECT No. 21-000403

DRAWING No. 301

STAGE DA

REVISION 3

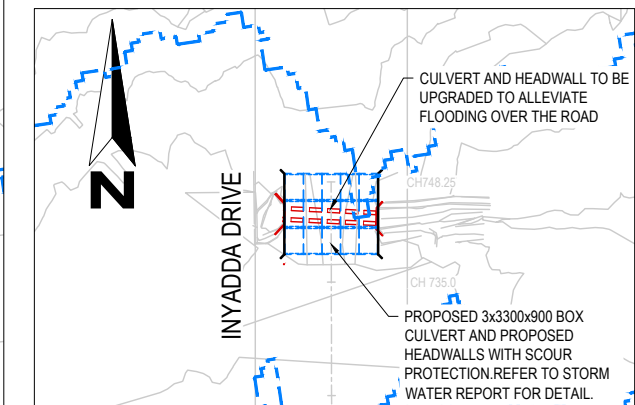
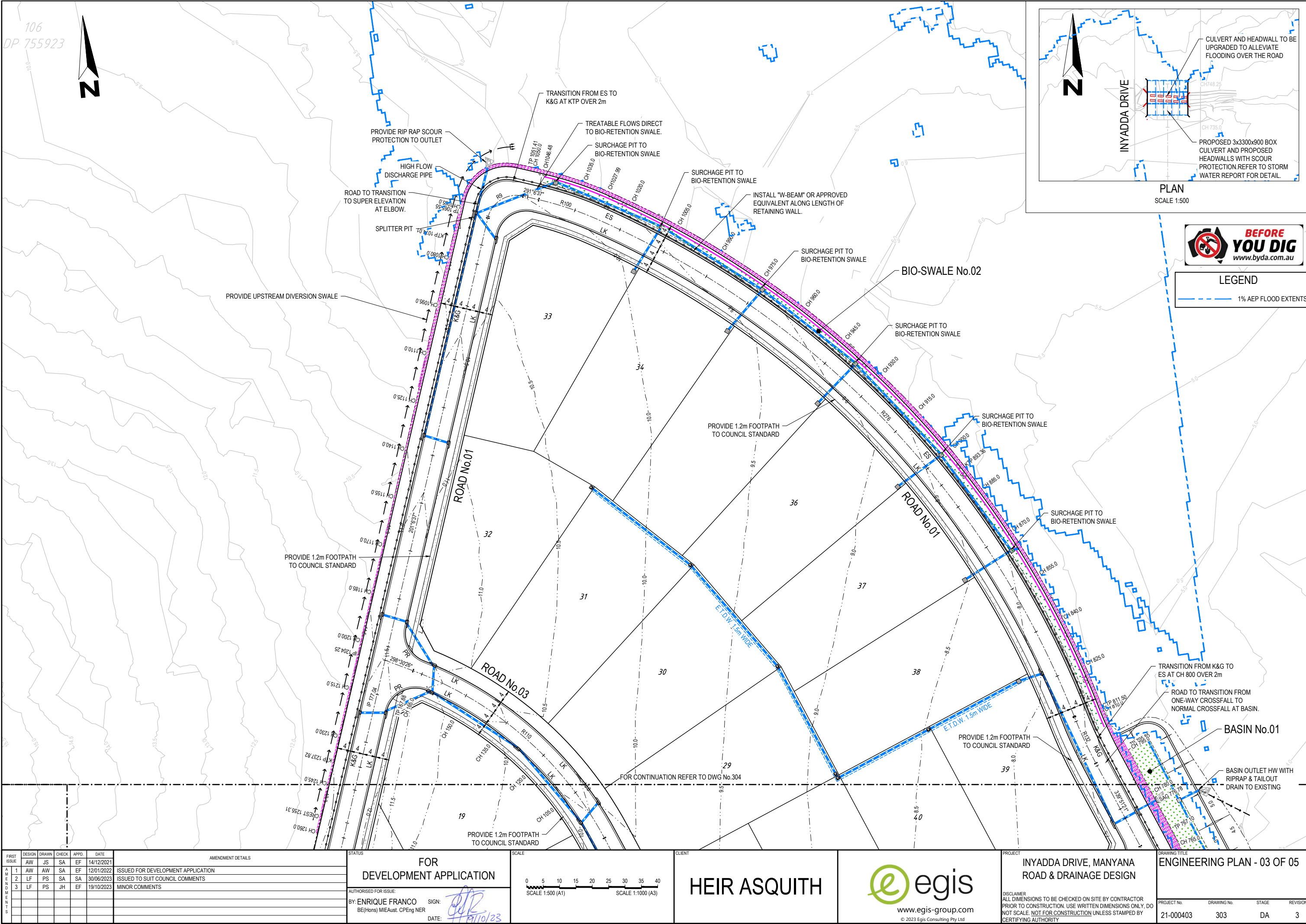




AMENDMENT DETAILS				STATUS		SCALE		CLIENT		PROJECT		DRAWING TITLE	
DESIGN	DRAWN	CHECK	APPROVED	DATE	FOR DEVELOPMENT APPLICATION	SCALE 1:500 (A1)	SCALE 1:1000 (A3)	HEIR ASQUITH	egis	INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN	ENGINEERING PLAN - 02 OF 05	PROJECT No.	DRAWING No.
1	AW	SA	EF	14/12/2021	ISSUED FOR DEVELOPMENT APPLICATION							21-000403	302
2	LF	PS	SA	30/06/2023	ISSUED TO SUIT COUNCIL COMMENTS								
3	LF	PS	JH	19/10/2023	MINOR COMMENTS								

AUTHORISED FOR ISSUE:	SIGN:	DATE:
BY: ENRIQUE FRANCO	BE(Hons) MIEAust. CPEng NER	19/10/23

DISCLAIMER	STAGE	REVISION
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	DA	3



PLAN
SCALE 1:500

LEGEND
1% AEP FLOOD EXTENTS

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
	1	AW	JS	SA	EF	14/12/2021	ISSUED FOR DEVELOPMENT APPLICATION
	2	AW	AW	SA	EF	12/01/2022	ISSUED TO SUIT COUNCIL COMMENTS
	3	LF	PS	SA	SA	30/06/2023	ISSUED TO SUIT COUNCIL COMMENTS
		LF	PS	JH	EF	19/10/2023	MINOR COMMENTS

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO
BE(Hons) MIEAust. CPEng NER

SIGN:

DATE: 19/10/23

SCALE

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

CLIENT

HEIR ASQUITH

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PROJECT

INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN

DISCLAIMER
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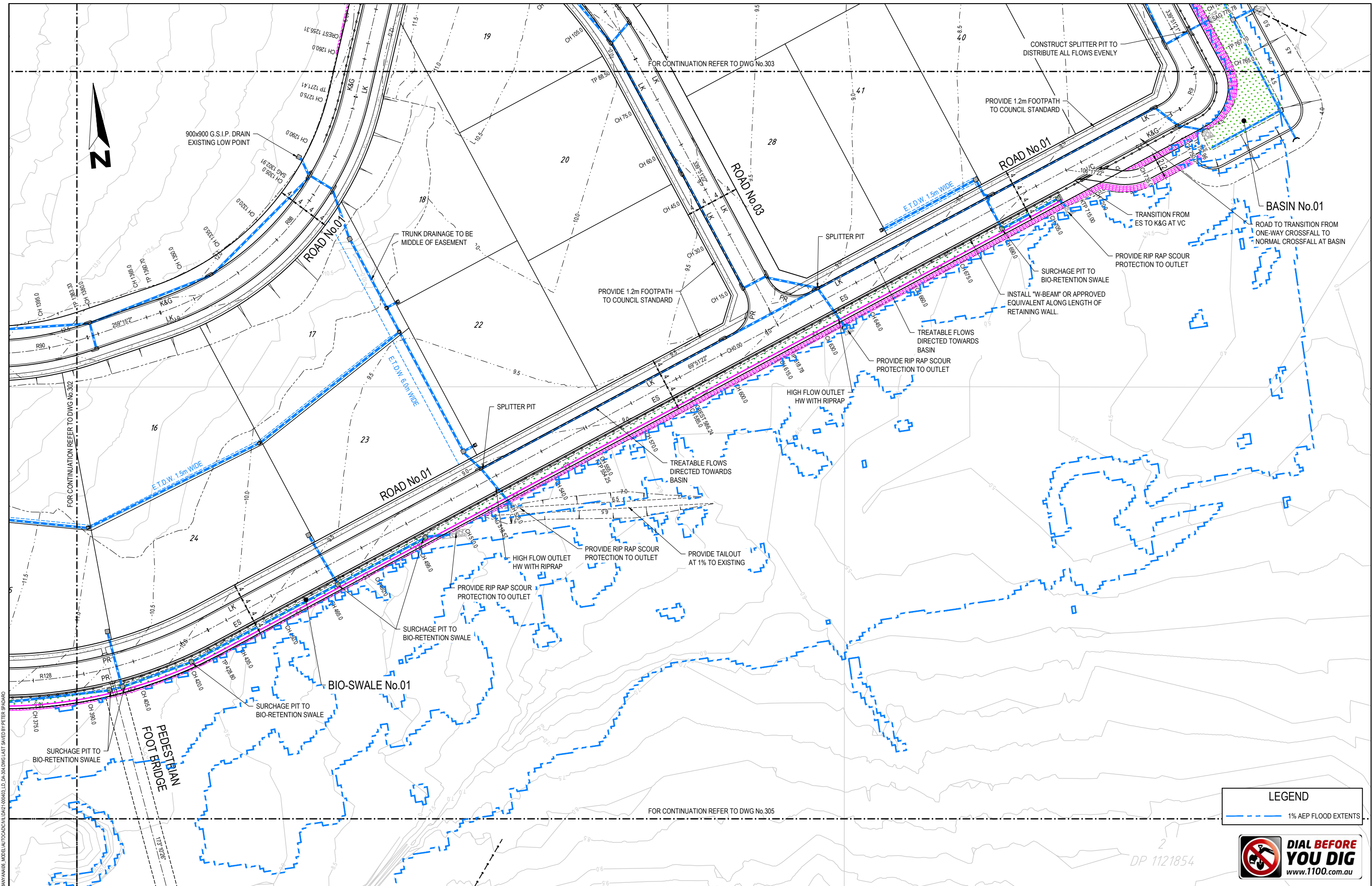
DRAWING TITLE

ENGINEERING PLAN - 03 OF 05

PROJECT No. DRAWING No. STAGE REVISION

21-000403 303 DA 3

FILE: H2121-000403 - INYADDA DRIVE, MANYANA, MODEL AUTO CAD FILE (DWG) 000403.LD - 24-303.DWG LAST SAVED BY LAURO FACEL



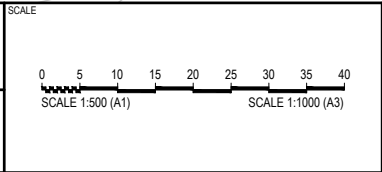
FILE: I:\21-000403 - INYADDA DRIVE, MANYANA RD, MODEL\AUTOCAD\DWG\21-000403.DWG LAST SAVED BY PETER SPURDING

AMENDMENT DETAILS					
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD	DATE
1	AW	JS	SA	EF	14/12/2021
2	AW	AW	SA	EF	12/01/2022
3	LF	PS	SA	SA	30/06/2023
4	LF	PS	JH	EF	19/10/2023

STATUS
FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO
BE(Hons) MIEAust. CPEng NER

SIGN: 
DATE: 19/10/23



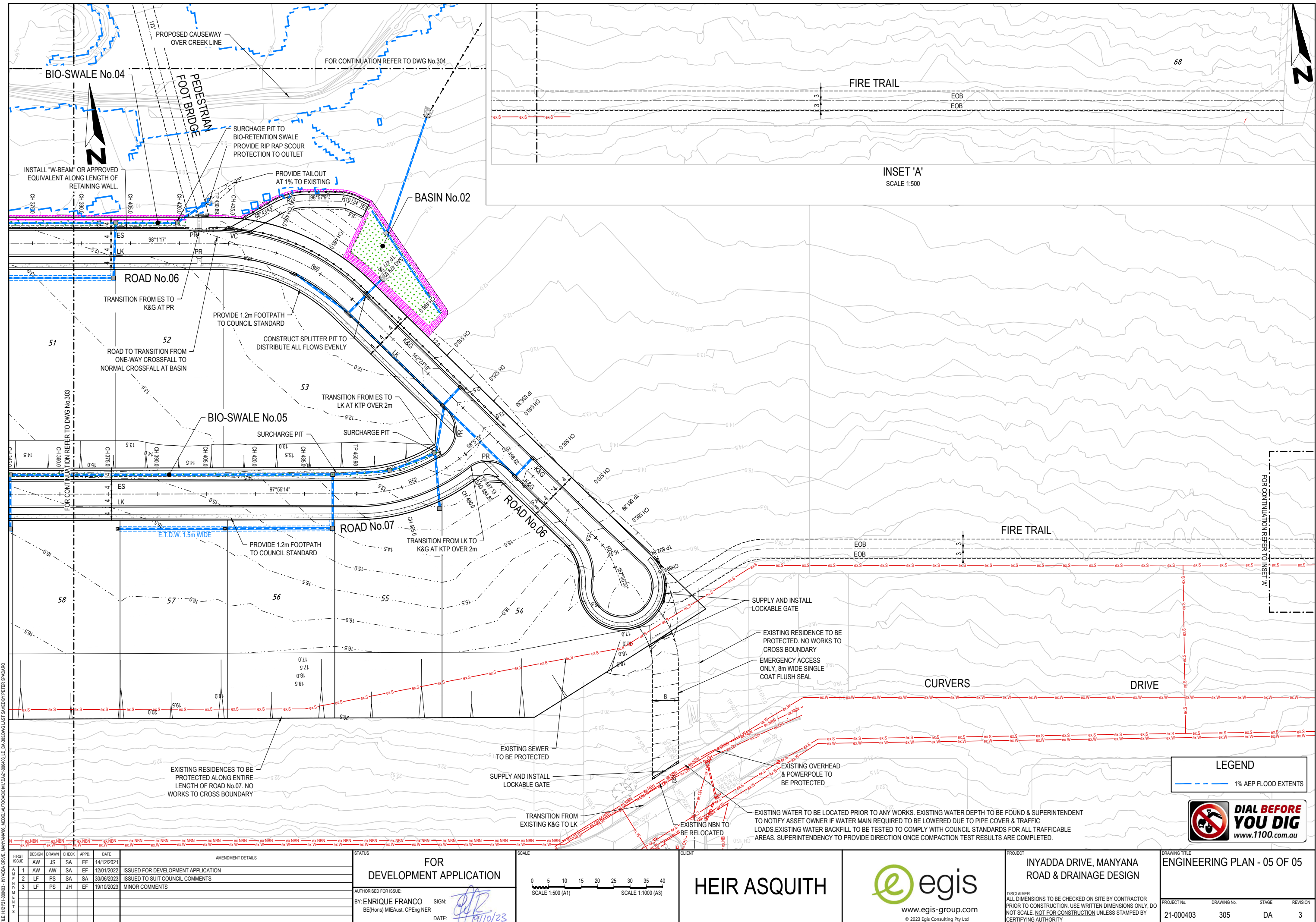
CLIENT
HEIR ASQUITH



PROJECT
INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN

DISCLAIMER
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DRAWING TITLE			
ENGINEERING PLAN - 04 OF 05			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	304	DA	3



FILE: H2121-000403 - INYADDA DRIVE, MANYANA RD, MODEL AUTO CAD (DWG) 21-000403.DWG, LAST SAVED BY PETER SPALDING

FIRST ISSUE	AMENDMENT DETAILS				DATE	STATUS
	DESIGN	DRAWN	CHECK	APPD.		
1	AW	JS	SA	EF	14/12/2021	ISSUED FOR DEVELOPMENT APPLICATION
2	AW	AW	SA	EF	12/01/2022	ISSUED TO SUIT COUNCIL COMMENTS
3	LF	PS	SA	SA	30/06/2023	ISSUED TO SUIT COUNCIL COMMENTS
4	LF	PS	JH	EF	19/10/2023	MINOR COMMENTS

FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:	
BY: ENRIQUE FRANCO	SIGN: 
BE(Hons) MIEAust. CPEng NER	DATE: 19/10/23

SCALE	
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0 5 10 15 20 25 30 35 40	SCALE 1:1000 (A3)

CLIENT	
HEIR ASQUITH	

PROJECT	
INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN	

DRAWING TITLE	
ENGINEERING PLAN - 05 OF 05	

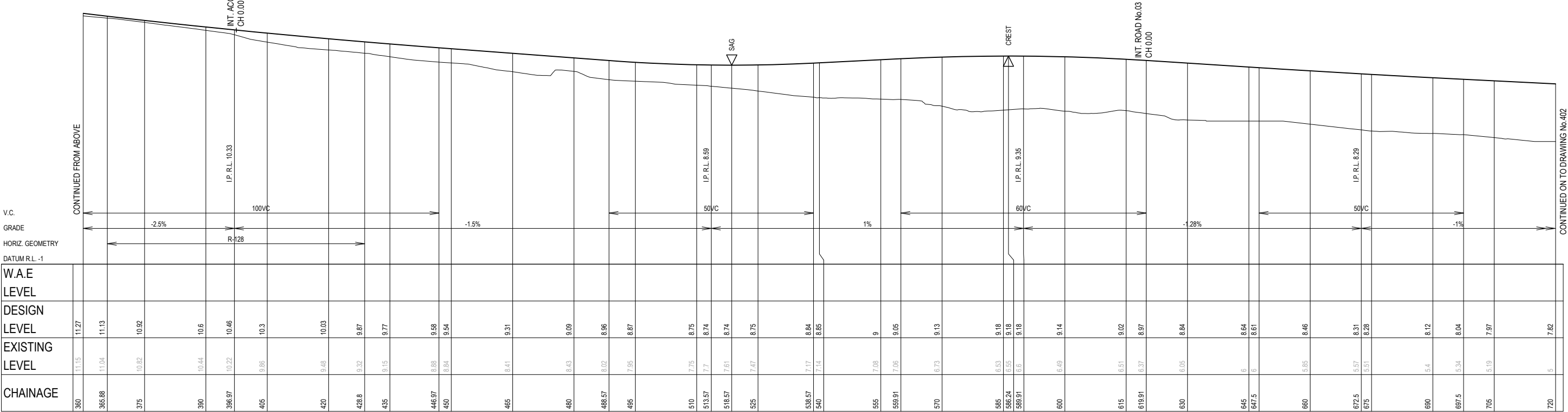
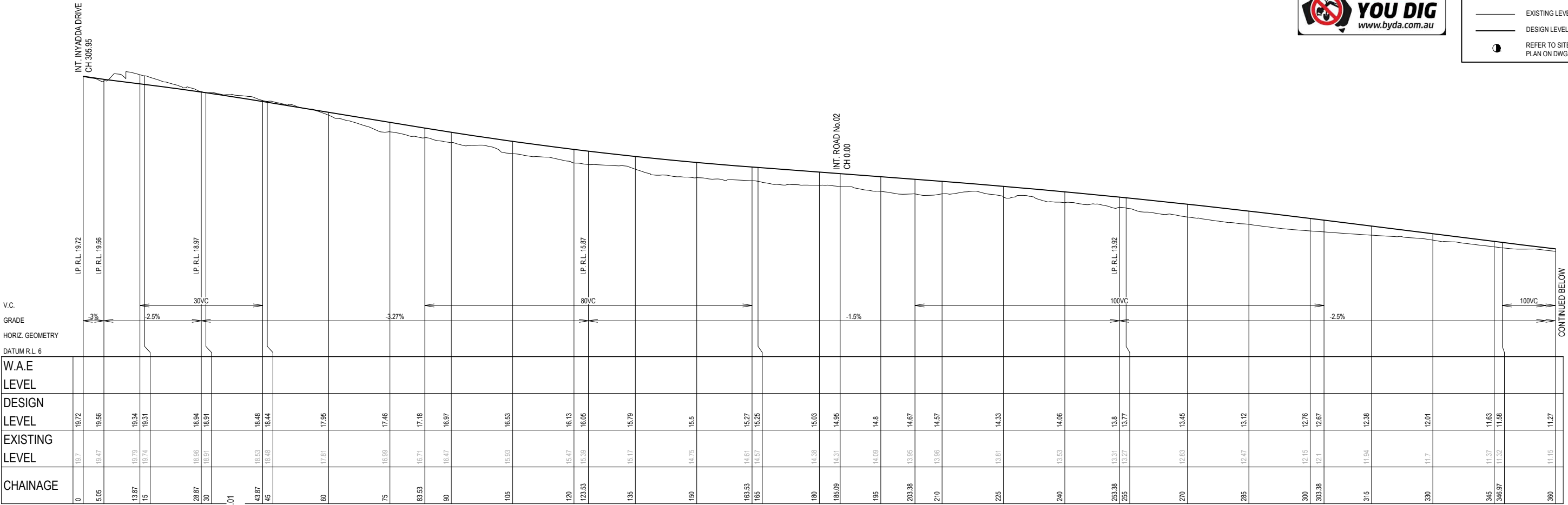
PROJECT No.		DRAWING No.		STAGE		REVISION	
21-000403		305		DA		3	

DISCLAIMER
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LEGEND	
	EXISTING LEVEL
	DESIGN LEVEL
	REFER TO SITE REGRADING PLAN ON DWG No.201-202



FILE: H:\21-000403 - INYADDA DRIVE, MANYANA NSW, MODEL\1\T0\CA\DWG\1\DWG\000403.LD - 441.DWG LAST SAVED BY: JED SWEENEY

AMENDMENT DETAILS					
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPRO.	DATE
1	AW	JS	SA	EF	14/12/2021
2	AW	AW	SA	EF	12/01/2022
3	LF	PS	SA	SA	30/06/2023
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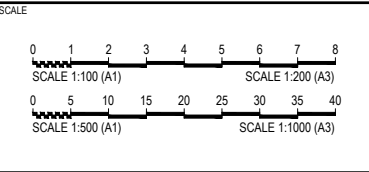
STATUS

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO
BE(Hons) MIEAust. CPEng NER

SIGN:

DATE: 19/10/23



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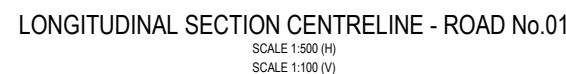
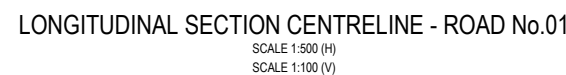
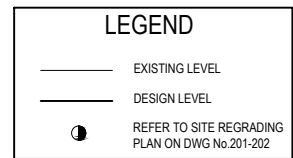


PROJECT

INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN

DISCLAIMER
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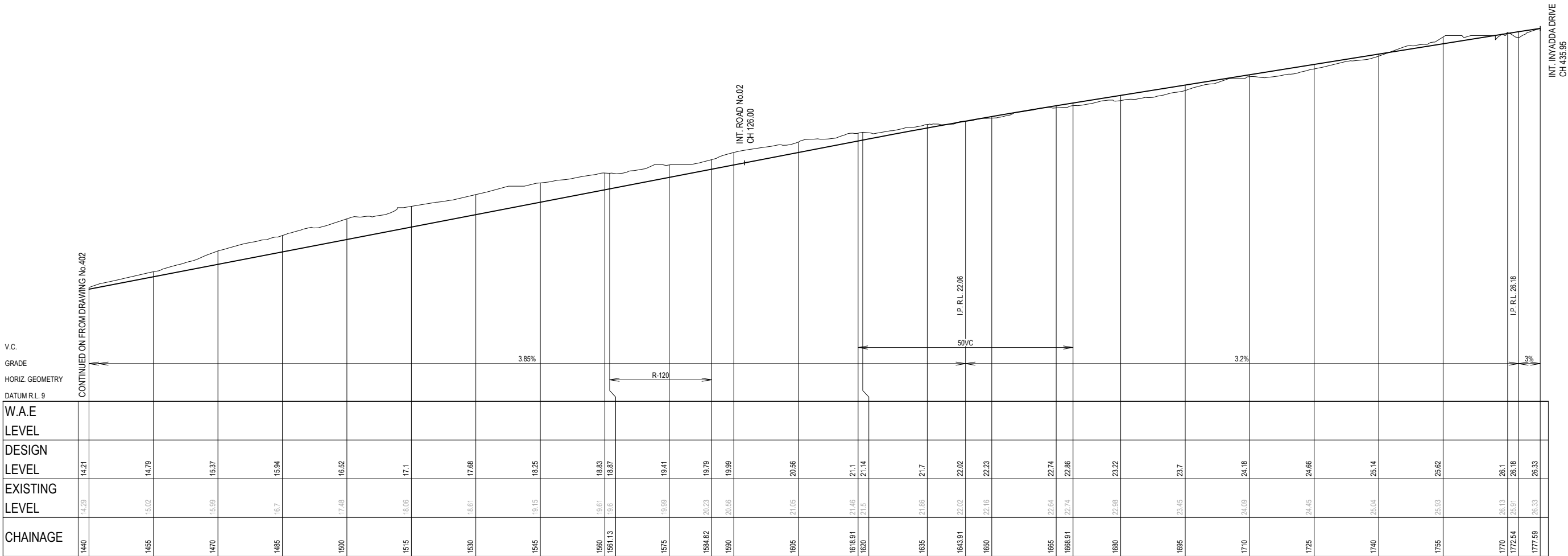
DRAWING TITLE			
LONGITUDINAL & TYPICAL SECTIONS - ROAD No.01			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	401	DA	3



80

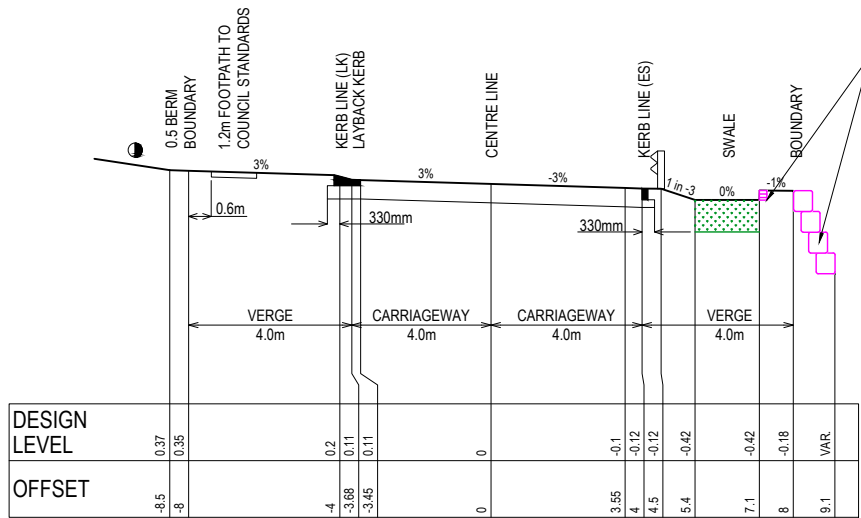


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	DESIGN LEVEL
	REFER TO SITE REGRADING PLAN ON DWG No.201-202



LONGITUDINAL SECTION CENTRELINE - ROAD No.01

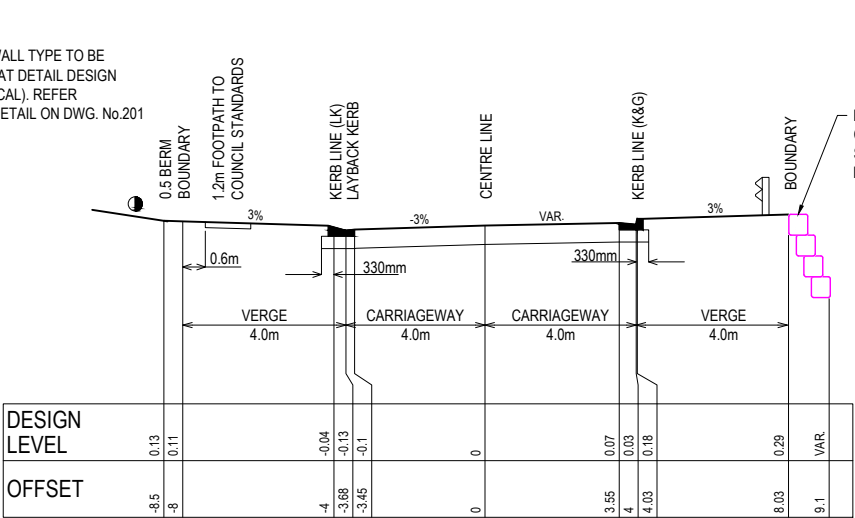
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TYPICAL CROSS SECTION - ROAD No.01

CH 0 - CH 710 & CH 805 - CH 1046

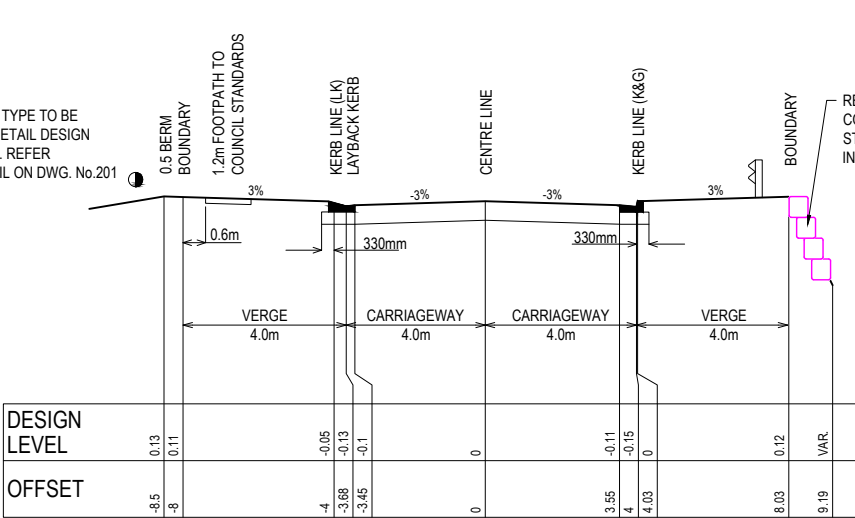
SCALE 1:100 (H) 1:100 (V)



TYPICAL CROSS SECTION - ROAD No.01

CH 1046 - CH 1065

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



TYPICAL CROSS SECTION - ROAD No.01

CH 740 - CH 790, CH 1065 - END

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

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
1	AW	JS	SA	EF	14/12/2021	
2	AW	SA	EF	12/01/2022		ISSUED FOR DEVELOPMENT APPLICATION
3	LF	PS	SA	SA	30/06/2023	ISSUED TO SUIT COUNCIL COMMENTS
		PS	JH	EF	19/10/2023	MINOR COMMENTS

STATUS	
FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:	
BY: ENRIQUE FRANCO	SIGN:
BE(Hons) MIEAust. CPEng NER	DATE: 17/10/23

SCALE
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0 5 10 15 20 25 30 35 40 SCALE 1:500 (A1)
0 1 2 3 4 5 6 7 8 SCALE 1:200 (A3)
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CLIENT
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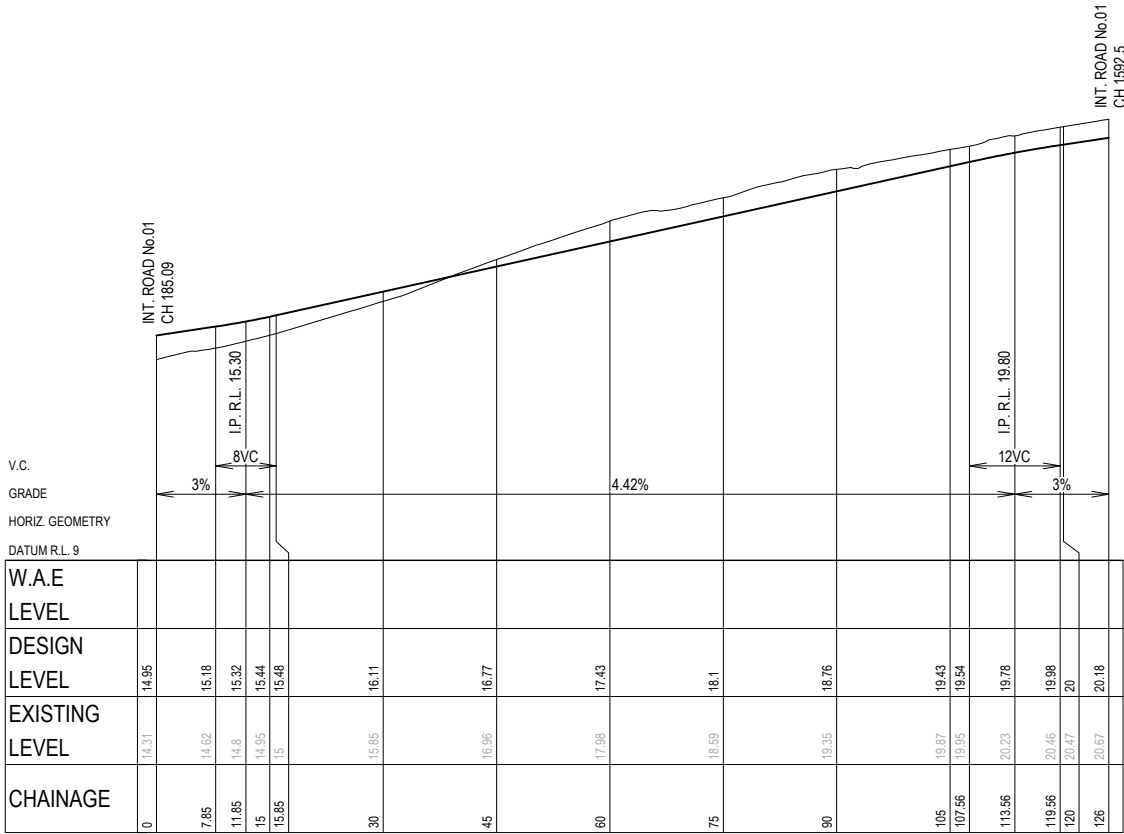
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PROJECT
INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE			
LONGITUDINAL & TYPICAL SECTIONS - ROAD No.01 (CONT.)			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	403	DA	3

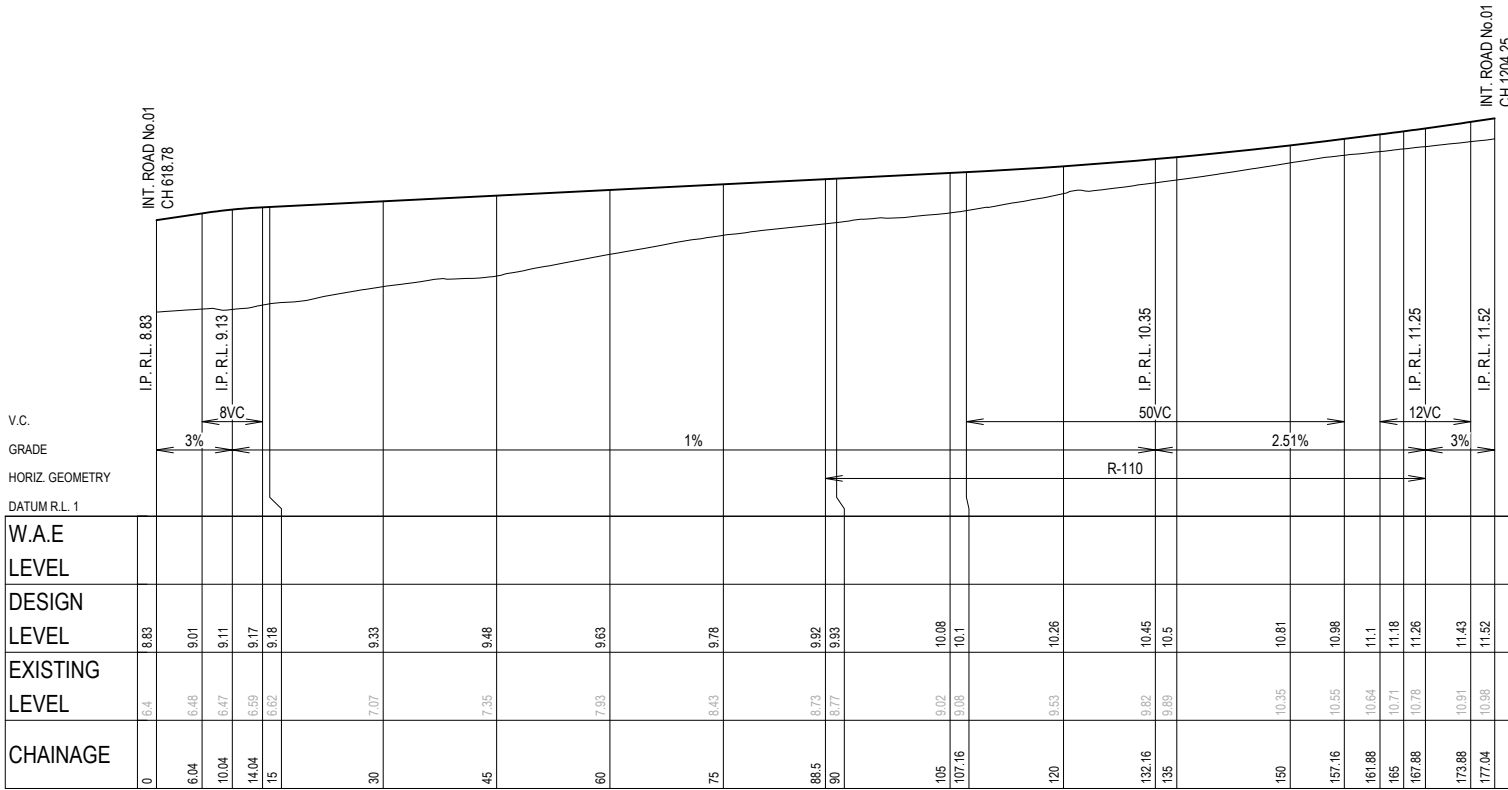


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	REFER TO SITE REGRADING PLAN ON DWG No.201-202



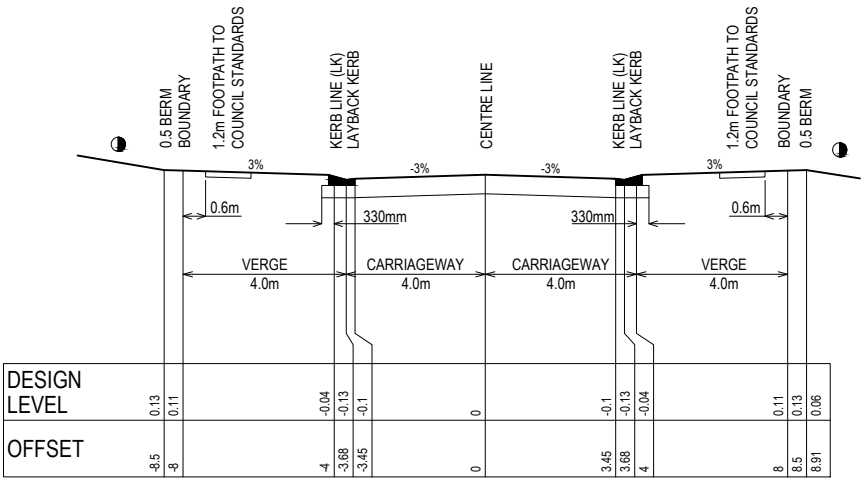
LONGITUDINAL SECTION CENTRELINE - ROAD No.02

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



LONGITUDINAL SECTION CENTRELINE - ROAD No.03

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



TYPICAL CROSS SECTION - ROADS No.02 & 03

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

FILE: H:\21-000403 - INYADDA DRIVE, MANYANNA, MODEL\AUTOCAD\PLAN\21-000403.LD DA-404.DWG LAST SAVED BY: JED SWEENEY

AMENDMENT DETAILS					
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE
1	AW	JS	SA	EF	14/12/2021
2	AW	SA	EF		12/01/2022
3	LF	PS	SA	SA	30/06/2023
		PS	JH	EF	19/10/2023

STATUS	
FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:	
BY: ENRIQUE FRANCO	SIGN:
BE(Hons) MIEAust. CPEng NER	
DATE: 19/10/23	

SCALE	
	SCALE 1:100 (A1)
	SCALE 1:500 (A1)
	SCALE 1:200 (A3)
	SCALE 1:1000 (A3)

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PROJECT	
INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN	
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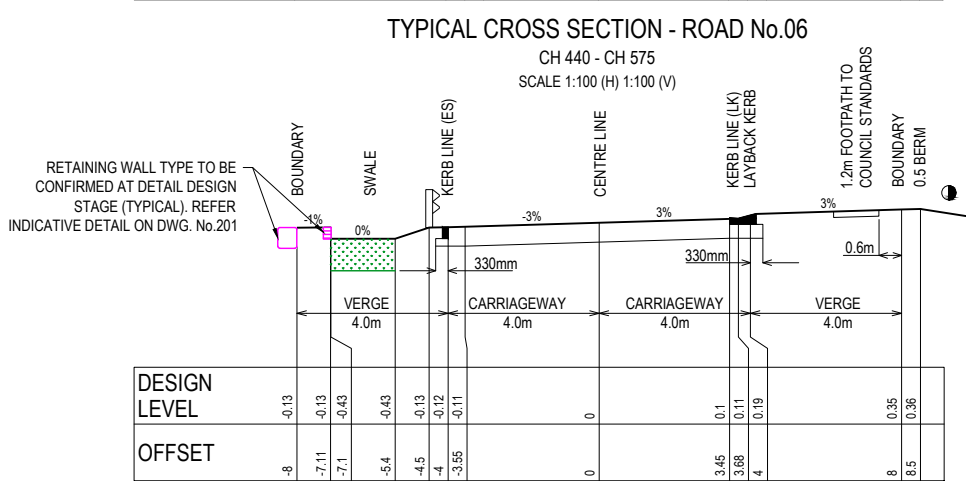
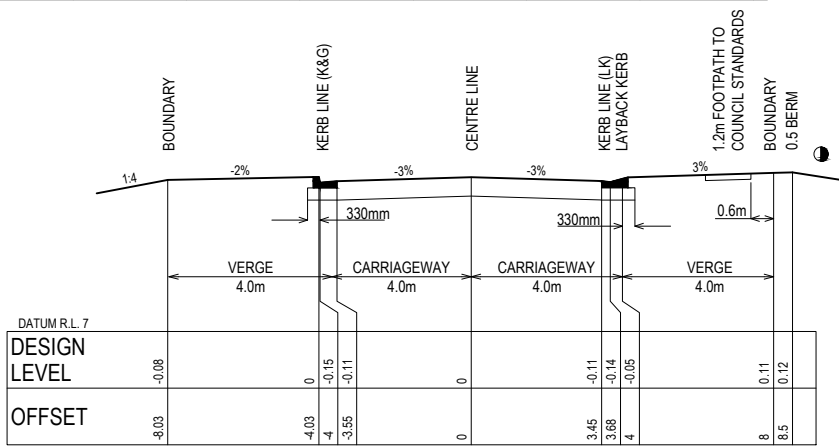
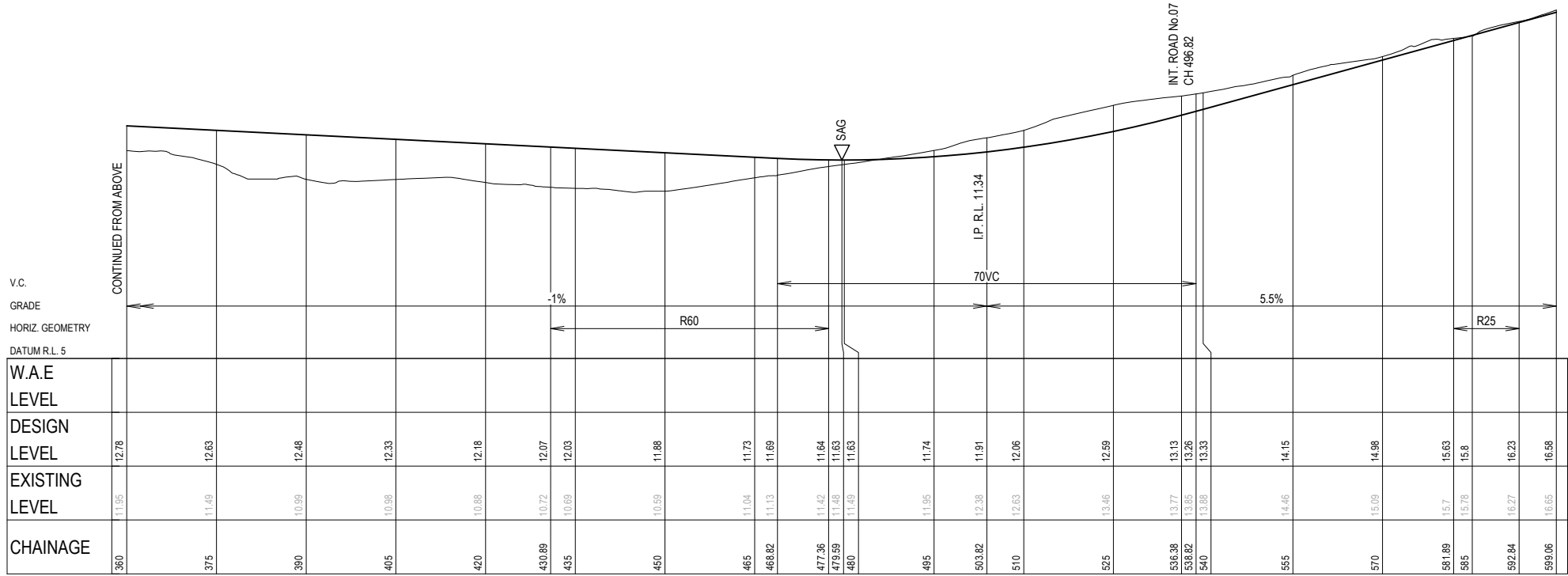
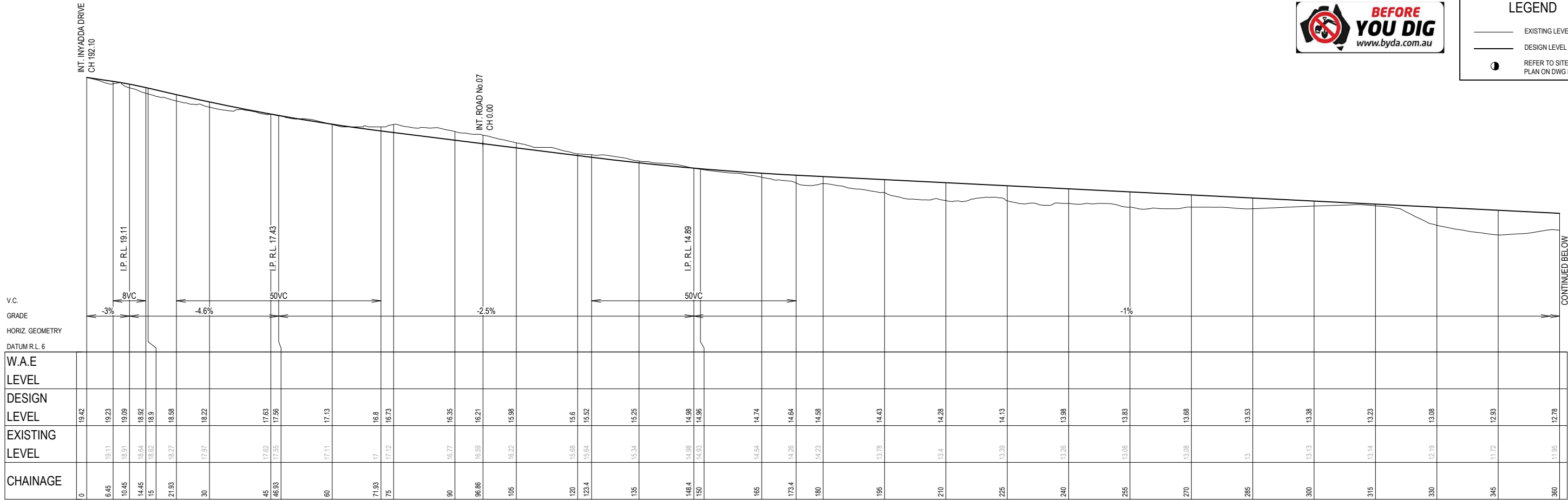
DRAWING TITLE	
LONGITUDINAL & TYPICAL SECTIONS - ROAD No.02 & 03	
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY	

PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	404	DA	3



LEGEND

- EXISTING LEVEL
- DESIGN LEVEL
- REFER TO SITE REGRADING PLAN ON DWG No.201-202



FILE: H:\21-000403 - INYADDA DRIVE, MANYANA\8. MODEL\AUTOCADED\PLAN\21-000403.LD.DWG LAST SAVED BY: JED SWEENEY

REV	AMENDMENT DETAILS					
	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE
	1	AW	JS	SA	EF	14/12/2021
	2	AW	AW	SA	EF	12/01/2022
3	LF	PS	SA	SA	30/06/2023	ISSUED TO SUIT COUNCIL COMMENTS
	LF	PS	JH	EF	19/10/2023	MINOR COMMENTS

FOR DEVELOPMENT APPLICATION

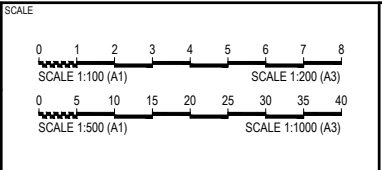
AUTHORISED FOR ISSUE:

BY: ENRIQUE FRANCO

BE(Hons) MIEAust. CPEng NER

SIGN:

DATE: 19/10/23



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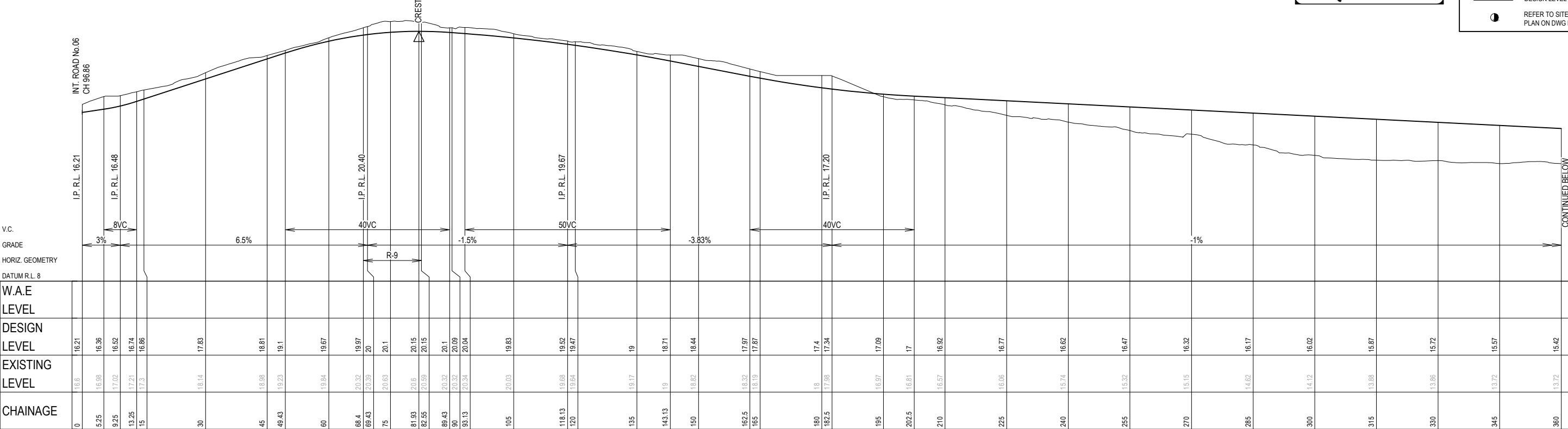
PROJECT
INYADDA DRIVE, MANYANA
ROAD & DRAINAGE DESIGN

DISCLAIMER
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DRAWING TITLE			
LONGITUDINAL & TYPICAL SECTIONS - ROAD No.06			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	405	DA	3

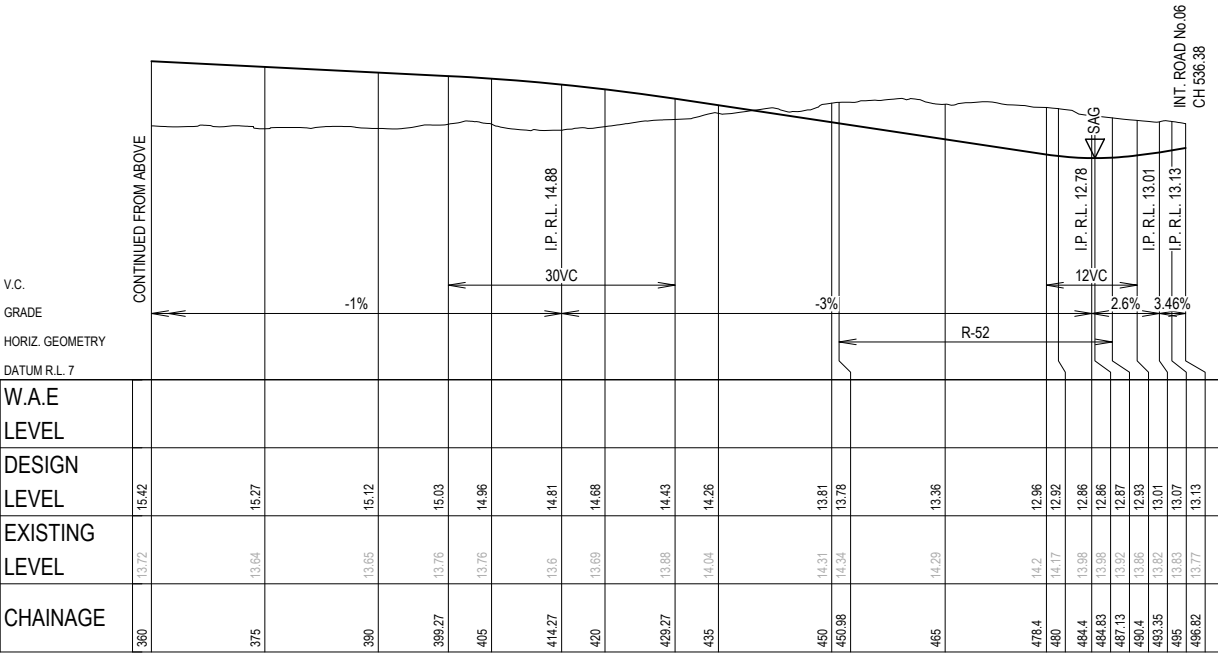


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	DESIGN LEVEL
	REFER TO SITE REGRADING PLAN ON DWG No.201-202



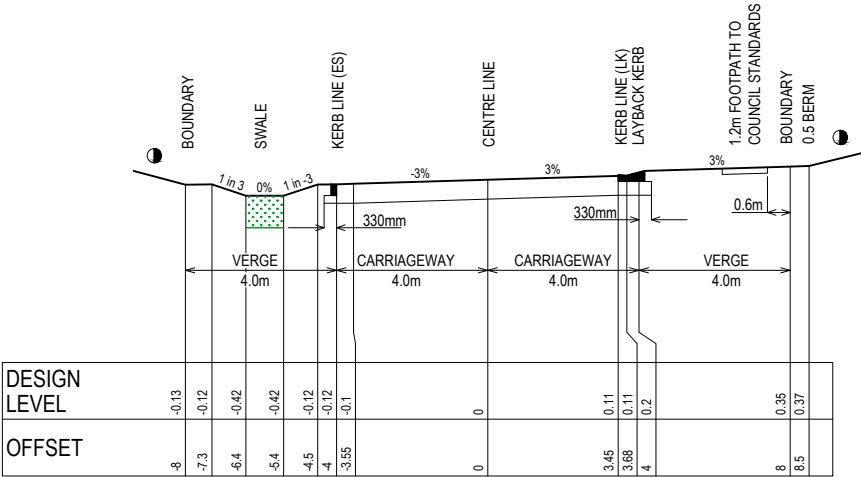
LONGITUDINAL SECTION CENTRELINE - ROAD No.07

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



LONGITUDINAL SECTION CENTRELINE - ROAD No.07

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



TYPICAL CROSS SECTION - ROAD No.07

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

FILE: H:\21-000403 - INYADDA DRIVE, MANYANA, MODEL\AUTOCAD\PLAN\21-000403.LD DA-406.DWG LAST SAVED BY JEB SNEYDEY

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
1	AW	JS	SA	EF	14/12/2021	
2	AW	AW	SA	EF	12/01/2022	ISSUED FOR DEVELOPMENT APPLICATION
3	LF	PS	SA	SA	30/06/2023	ISSUED TO SUIT COUNCIL COMMENTS
4	LF	PS	JH	EF	19/10/2023	MINOR COMMENTS

STATUS	
FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:	
BY: ENRIQUE FRANCO	SIGN:
BE(Hons) MIE Aust. CP Eng NER	DATE: 19/10/23

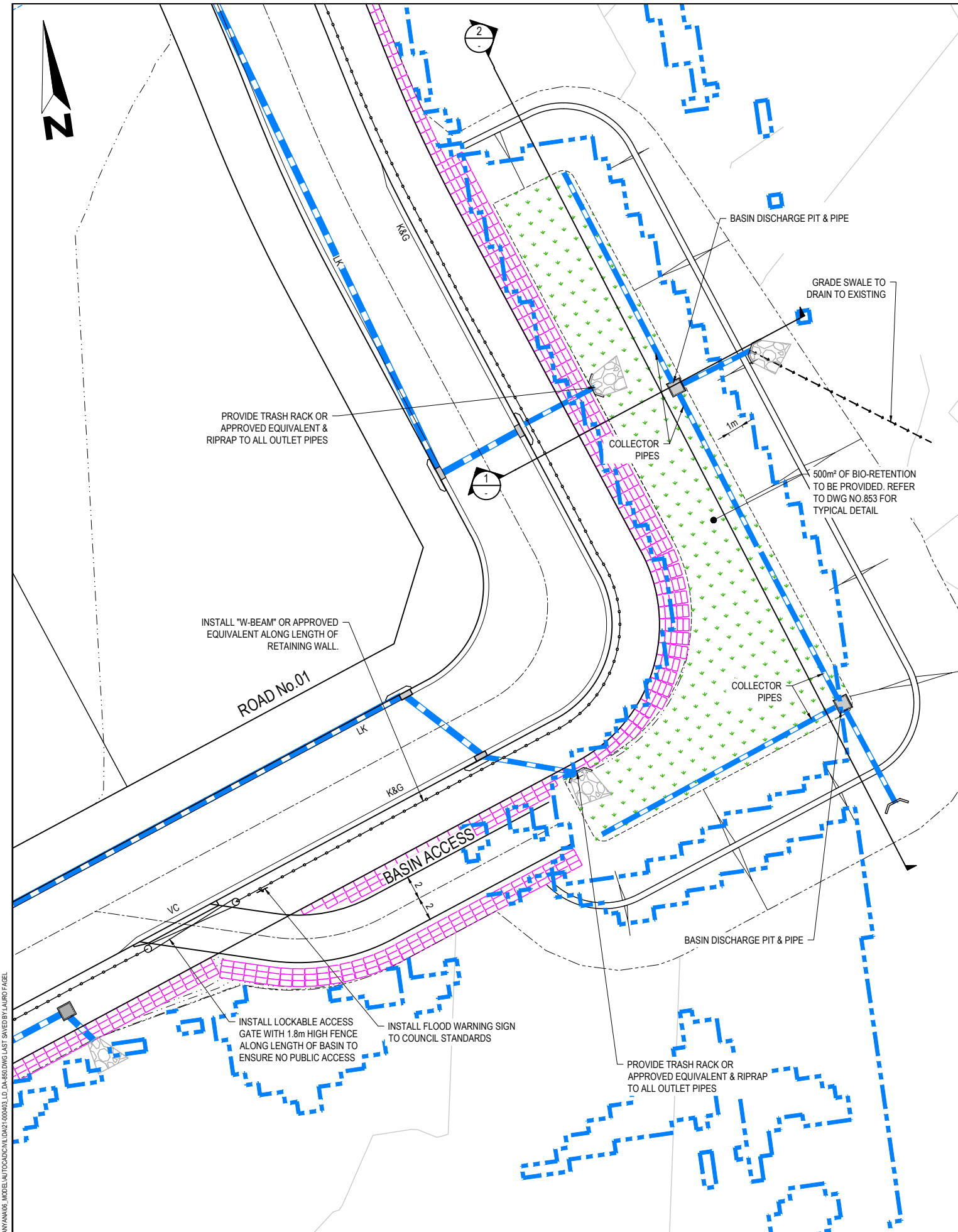
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0 5 10 15 20 25 30 35 40	SCALE 1:1000 (A3)

CLIENT	
HEIR ASQUITH	

PROJECT	
INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN	
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DRAWING TITLE	
LONGITUDINAL & TYPICAL SECTIONS - ROAD No.07	
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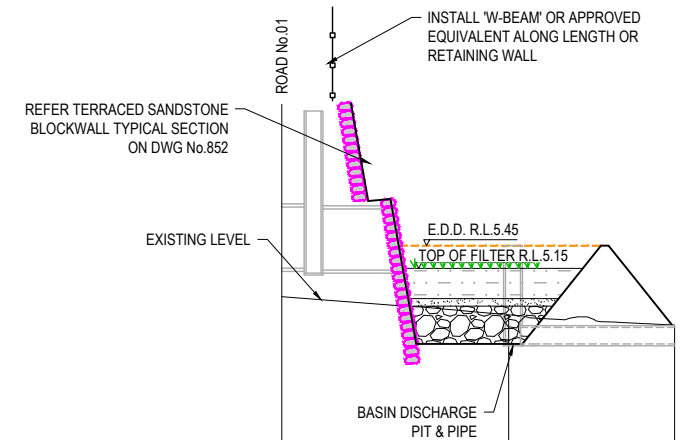
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	406	DA	3



LEGEND

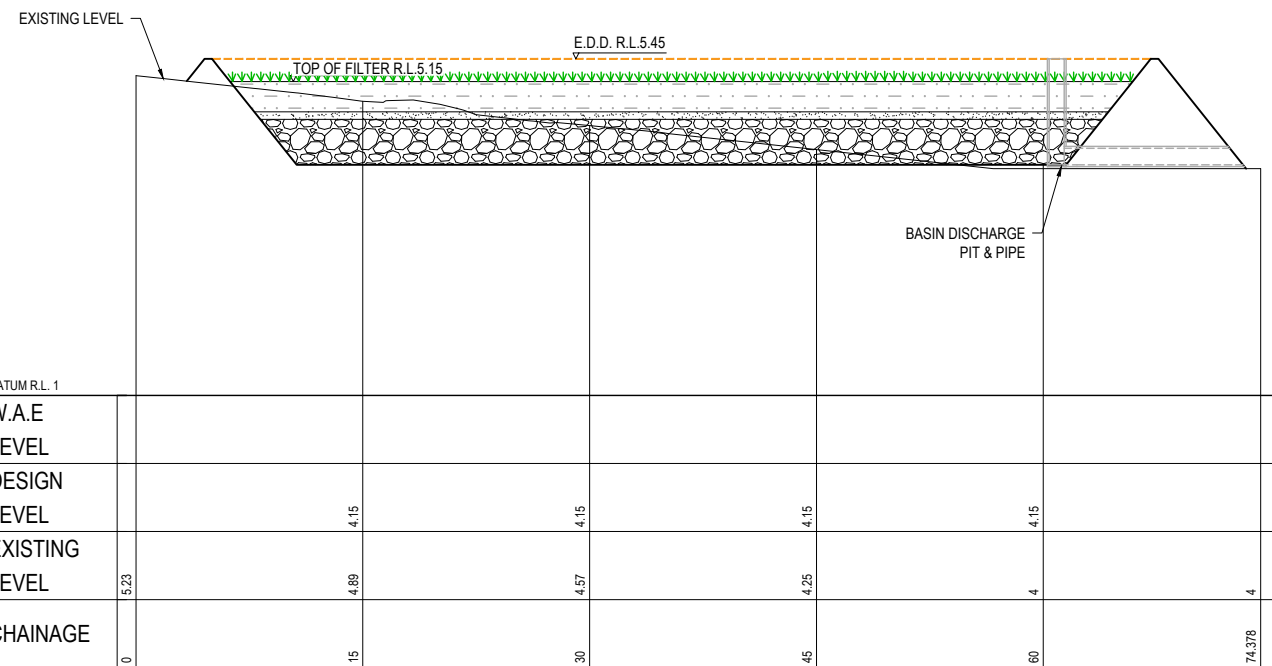
- EXISTING LEVEL
- DESIGN LEVEL
- RETAINING WALL TYPE TO BE CONFIRMED AT DETAIL DESIGN STAGE (TYPICAL)
- 100YR FLOOD LINES

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DATUM R.L. 1	W.A.E LEVEL	DESIGN LEVEL	EXISTING LEVEL	CHAINAGE
		7.32	4.15	
		4.78	4.54	4.4
				25.979

SECTION 1
SCALE: 1:250 (H) 850
SCALE: 1:50 (V)



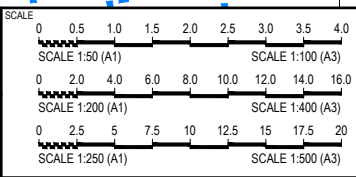
DATUM R.L. 1	W.A.E LEVEL	DESIGN LEVEL	EXISTING LEVEL	CHAINAGE
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		4.89	4.57	4
			4.25	4
				74.378

SECTION 2
SCALE: 1:250 (H) 850
SCALE: 1:50 (V)

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
1	AW	JS	SA	EF	14/12/2021	ISSUED FOR DEVELOPMENT APPLICATION
2	AW	SA	SA	EF	12/01/2022	ISSUED TO SUIT COUNCIL COMMENTS
3	LF	PS	JH	EF	30/06/2023	MINOR COMMENTS
4	LF	PS	JH	EF	19/10/2023	

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO SIGN: DATE: 19/10/23
BE(Hons) MIEAust. CPEng NER



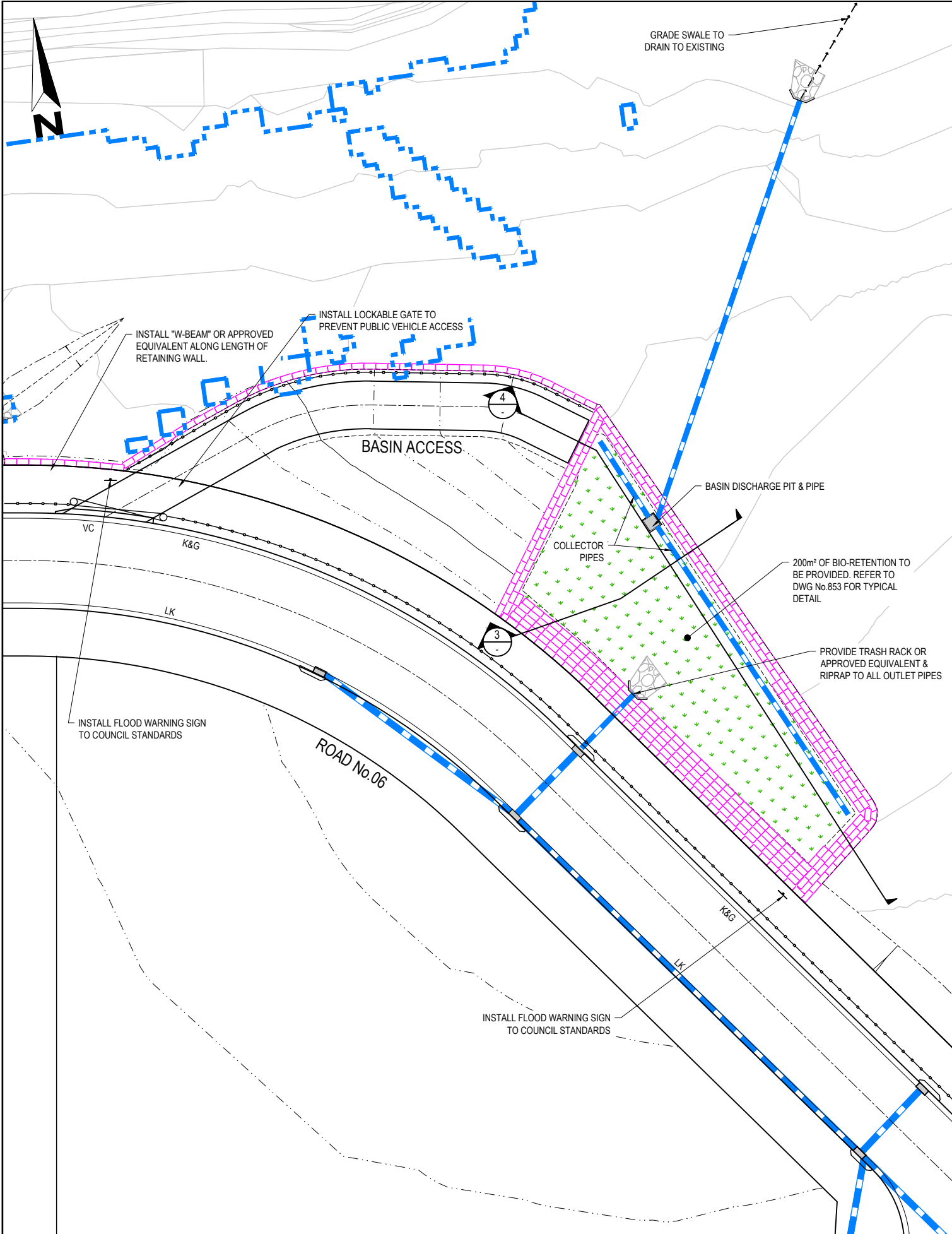
CLIENT
HEIR ASQUITH



PROJECT
INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN

DISCLAIMER
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DRAWING TITLE	PROJECT No.	DRAWING No.	STAGE	REVISION
BASIN No.01 PLAN & DETAILS	21-000403	850	DA	3



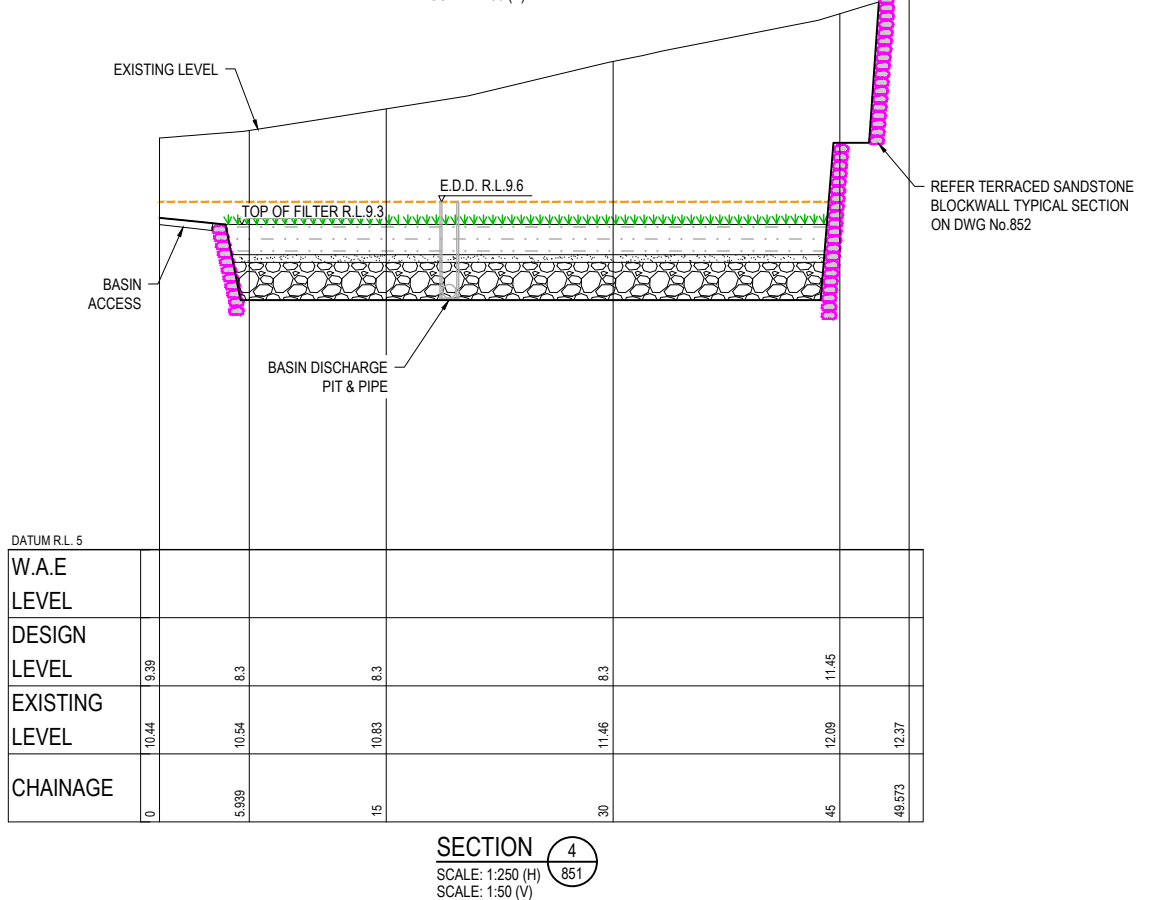
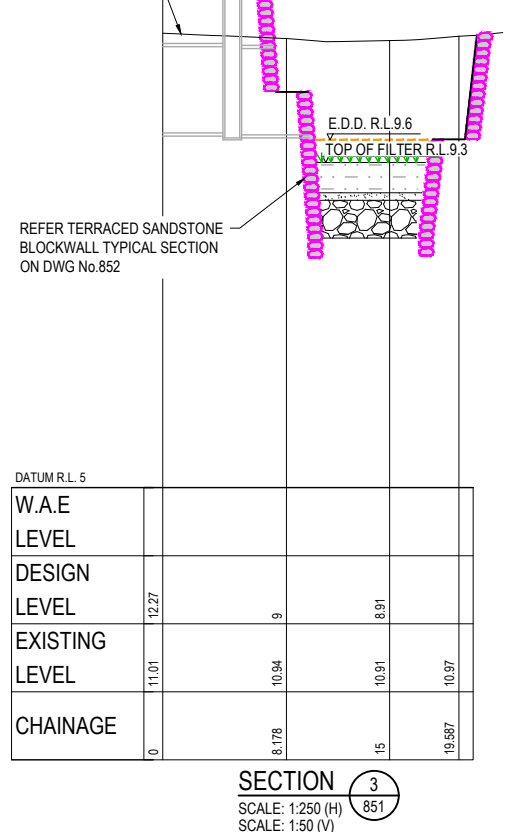
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EXISTING LEVEL

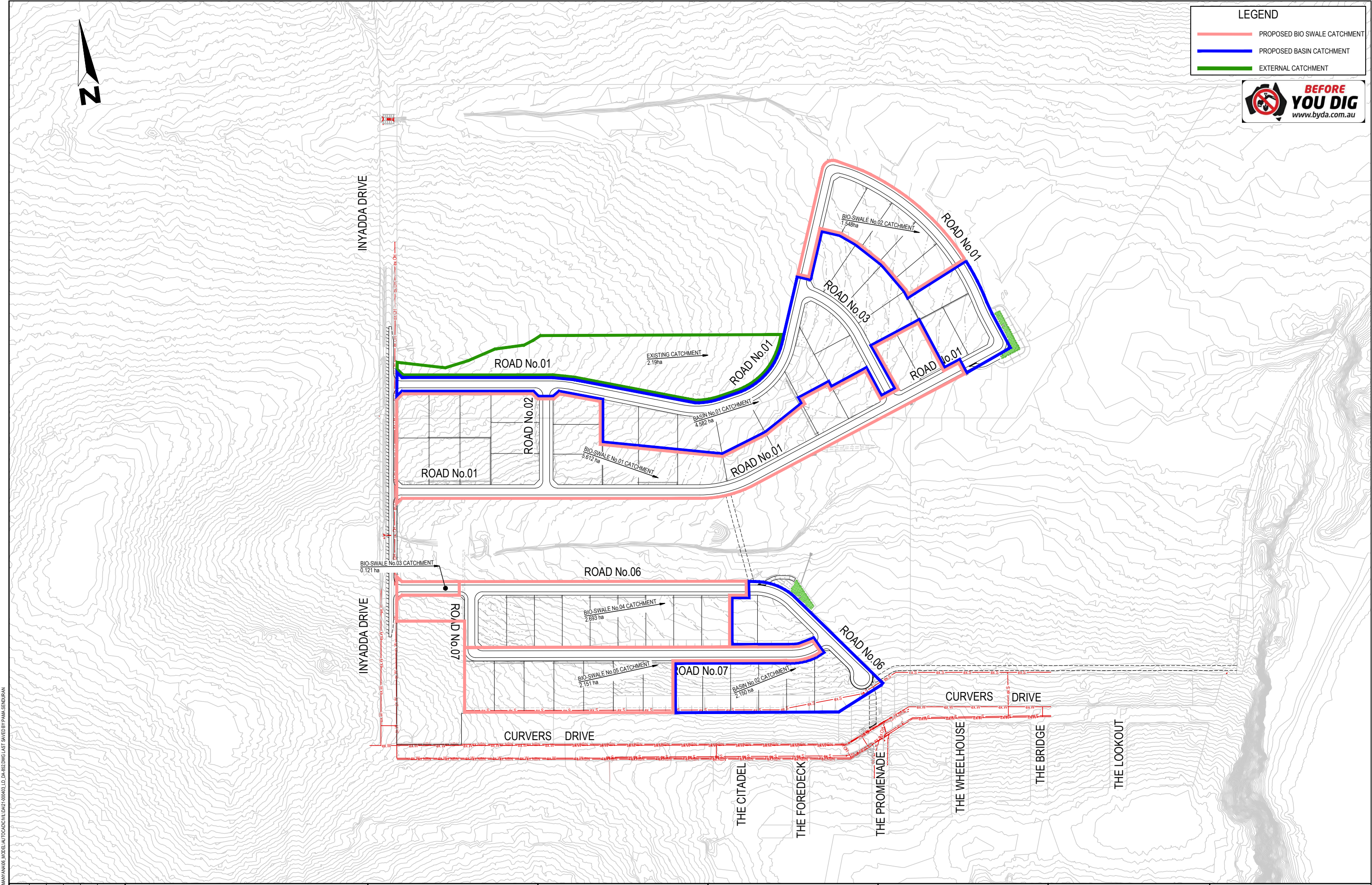
DESIGN LEVEL

RETAINING WALL TYPE TO BE CONFIRMED AT DETAIL DESIGN STAGE (TYPICAL)

100YR FLOOD LINES



AMENDMENTS <table border="1"> <thead> <tr> <th>FIRST ISSUE</th> <th>DESIGN</th> <th>DRAWN</th> <th>CHECK</th> <th>APPD.</th> <th>DATE</th> <th>AMENDMENT DETAILS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>AW</td> <td>JS</td> <td>SA</td> <td>EF</td> <td>14/12/2021</td> <td></td> </tr> <tr> <td>2</td> <td>AW</td> <td>AW</td> <td>SA</td> <td>EF</td> <td>12/01/2022</td> <td>ISSUED FOR DEVELOPMENT APPLICATION</td> </tr> <tr> <td>3</td> <td>LF</td> <td>PS</td> <td>SA</td> <td>SA</td> <td>30/06/2023</td> <td>ISSUED TO SUIT COUNCIL COMMENTS</td> </tr> <tr> <td>4</td> <td>LF</td> <td>PS</td> <td>JH</td> <td>EF</td> <td>19/10/2023</td> <td>MINOR COMMENTS</td> </tr> </tbody> </table>	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	1	AW	JS	SA	EF	14/12/2021		2	AW	AW	SA	EF	12/01/2022	ISSUED FOR DEVELOPMENT APPLICATION	3	LF	PS	SA	SA	30/06/2023	ISSUED TO SUIT COUNCIL COMMENTS	4	LF	PS	JH	EF	19/10/2023	MINOR COMMENTS	FOR DEVELOPMENT APPLICATION AUTHORISED FOR ISSUE: BY: ENRIQUE FRANCO SIGN: DATE: 19/10/23 BE(Hons) MIEAust. CPEng NER	SCALE 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 SCALE 1:50 (A1) SCALE 1:100 (A3) 0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 SCALE 1:200 (A1) SCALE 1:400 (A3) 0 2.5 5 7.5 10 12.5 15 17.5 20 SCALE 1:250 (A1) SCALE 1:500 (A3)	CLIENT HEIR ASQUITH	www.egis-group.com © 2023 Egis Consulting Pty Ltd	PROJECT INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN 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 BASIN No.02 PLAN & DETAILS PROJECT No. 21-000403 DRAWING No. 851 STAGE DA REVISION 3
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS																																			
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2	AW	AW	SA	EF	12/01/2022	ISSUED FOR DEVELOPMENT APPLICATION																																			
3	LF	PS	SA	SA	30/06/2023	ISSUED TO SUIT COUNCIL COMMENTS																																			
4	LF	PS	JH	EF	19/10/2023	MINOR COMMENTS																																			



FILE: H:\21-000403 - INYADDA DRIVE - MANYANA\6. MODEL\AUTOCAD\DWG\21-000403.LD DA-852.DWG LAST SAVED BY PMA SEDIBURAN

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
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	2	AW	AW	SA	EF	12/01/2022	
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		LF	PS	JH	EF	19/10/2023	MINOR COMMENTS

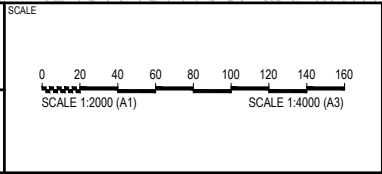
STATUS

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:

BY: ENRIQUE FRANCO SIGN:  DATE: 19/10/23

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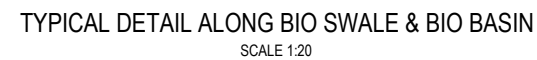

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PROJECT

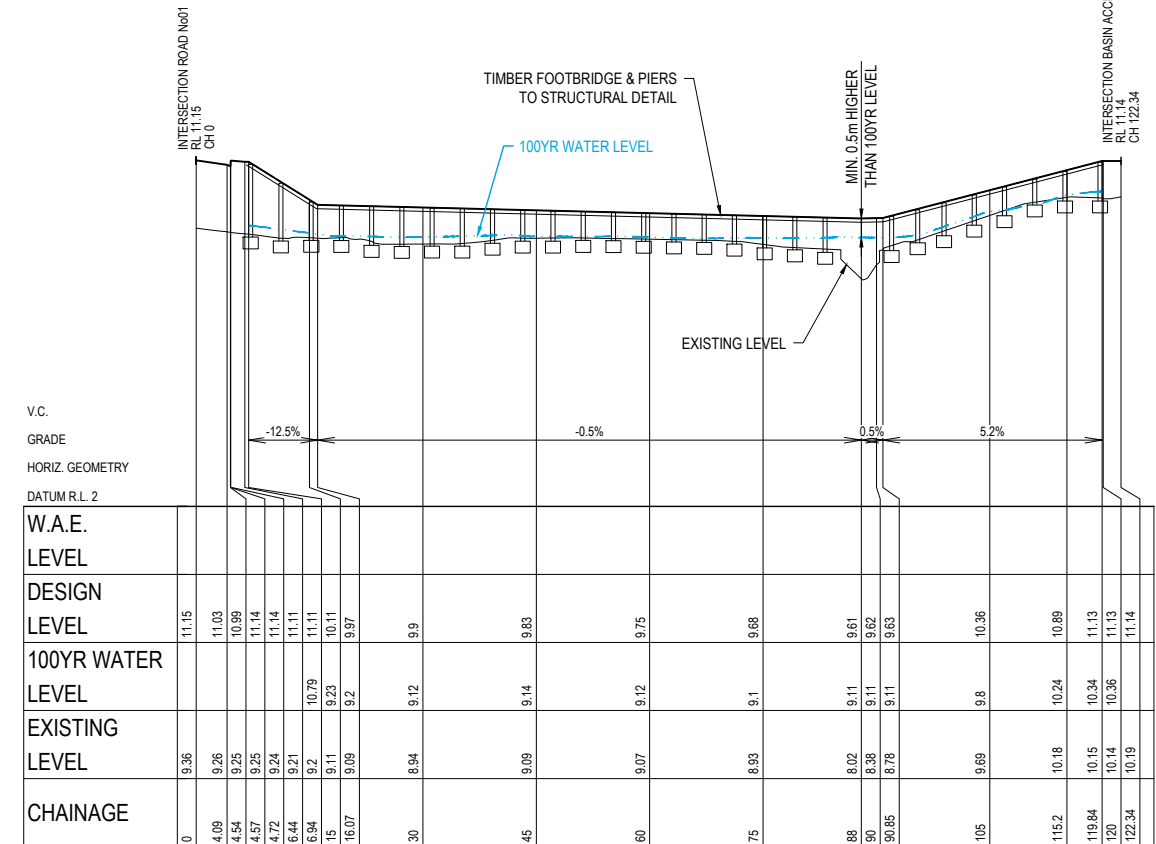
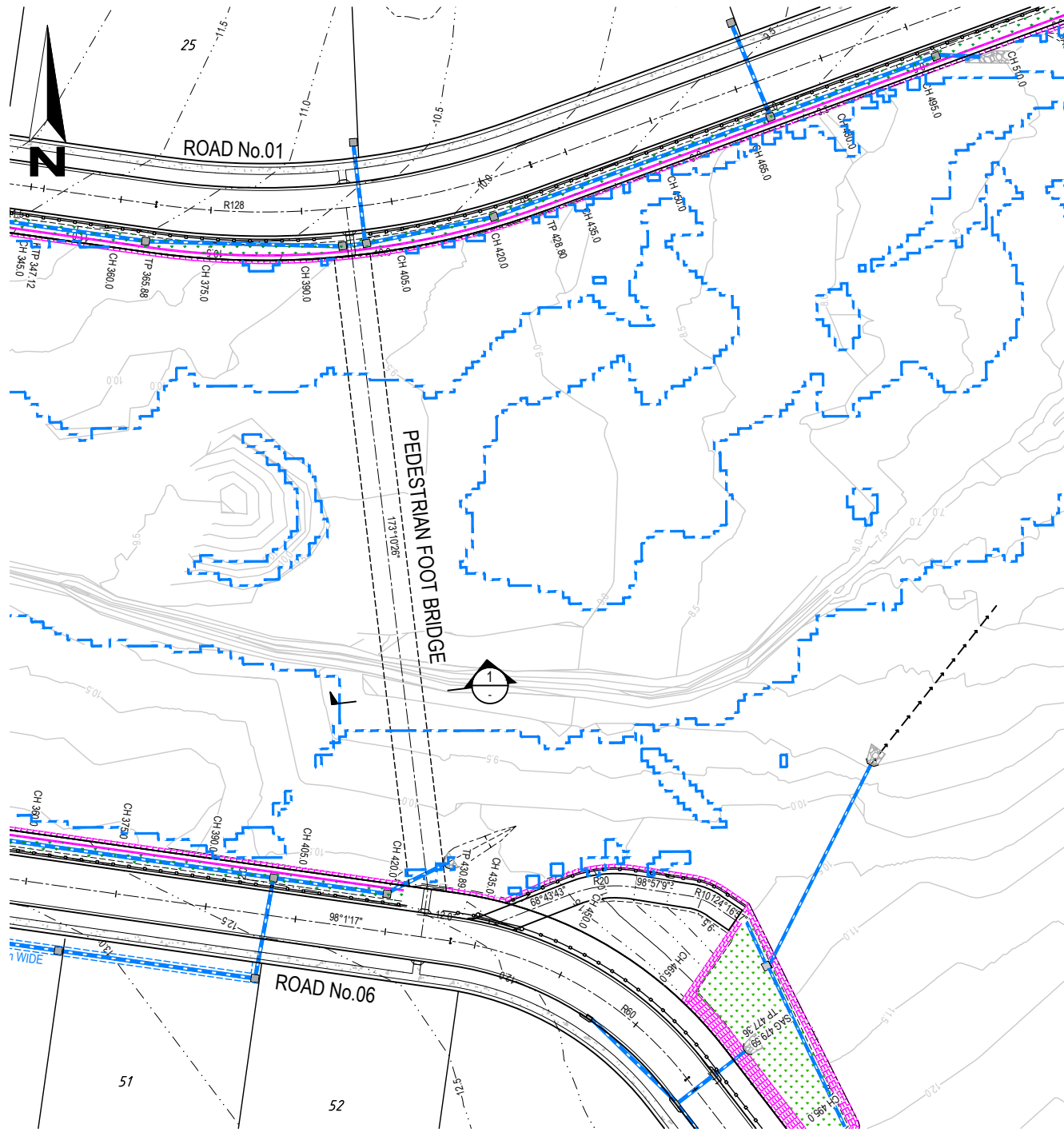
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DRAWING TITLE			
CATCHMENT PLAN			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000403	852	DA	3

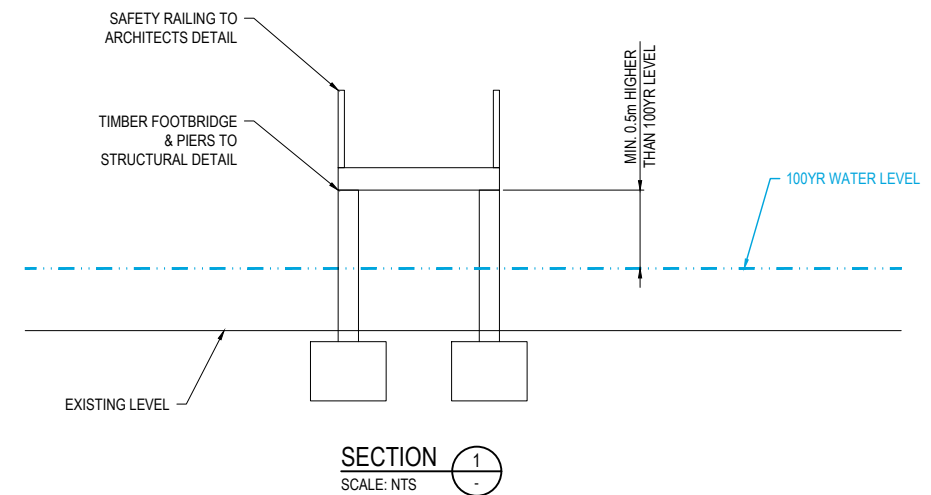


AMENDED DESIGN DRAWN CHECK APPD. DATE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS 1 ISSUED FOR DEVELOPMENT APPLICATION 2 ISSUED TO SUIT COUNCIL COMMENTS 3 MINOR COMMENTS	STATUS FOR DEVELOPMENT APPLICATION AUTHORISED FOR ISSUE: BY: ENRIQUE FRANCO SIGN:  BE(Hons) MIEAust. CPEng NER DATE: 19/10/23	SCALE 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 SCALE 1:10 (A1) SCALE 1:20 (A3) 0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 SCALE 1:20 (A1) SCALE 1:40 (A3)	CLIENT HEIR ASQUITH	 www.egis-group.com © 2023 Egis Consulting Pty Ltd	PROJECT INYADDA DRIVE, MANYANA ROAD & DRAINAGE DESIGN 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 SANDSTONE LOGWALL, BLOCKWALL & GRASSED ROADSIDE SWALE DETAILS PROJECT No. 21-000403 DRAWING No. 853 STAGE DA REVISION 3	
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	1	AW	SA	EF	12/01/2022								
	2	LF	PS	SA	SA								30/06/2023
	3	LF	PS	JH	EF								19/10/2023



CONCEPT LONGITUDINAL SECTION CENTRELINE - PEDESTRIAN FOOTBRIDGE

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



SECTION 1
SCALE: NTS

LEGEND	
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FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
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2	AW	SA	SA	EF	12/01/2022	ISSUED FOR DEVELOPMENT APPLICATION
3	LF	PS	SA	SA	30/06/2023	ISSUED TO SUIT COUNCIL COMMENTS
	LF	PS	JH	EF	19/10/2023	MINOR COMMENTS

FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:	
BY: ENRIQUE FRANCO	SIGN:
BE(Hons) MIE Aust. CP Eng NER	DATE: 17/10/23

SCALE	SCALE
0 1 2 3 4 5 6 7 8 SCALE 1:100 (A1)	0 5 10 15 20 25 30 35 40 SCALE 1:500 (A1)
0 1 2 3 4 5 6 7 8 SCALE 1:200 (A3)	0 5 10 15 20 25 30 35 40 SCALE 1:1000 (A3)

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DRAWING TITLE			
CONCEPT PEDESTRIAN FOOT BRIDGE DETAILS			
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