

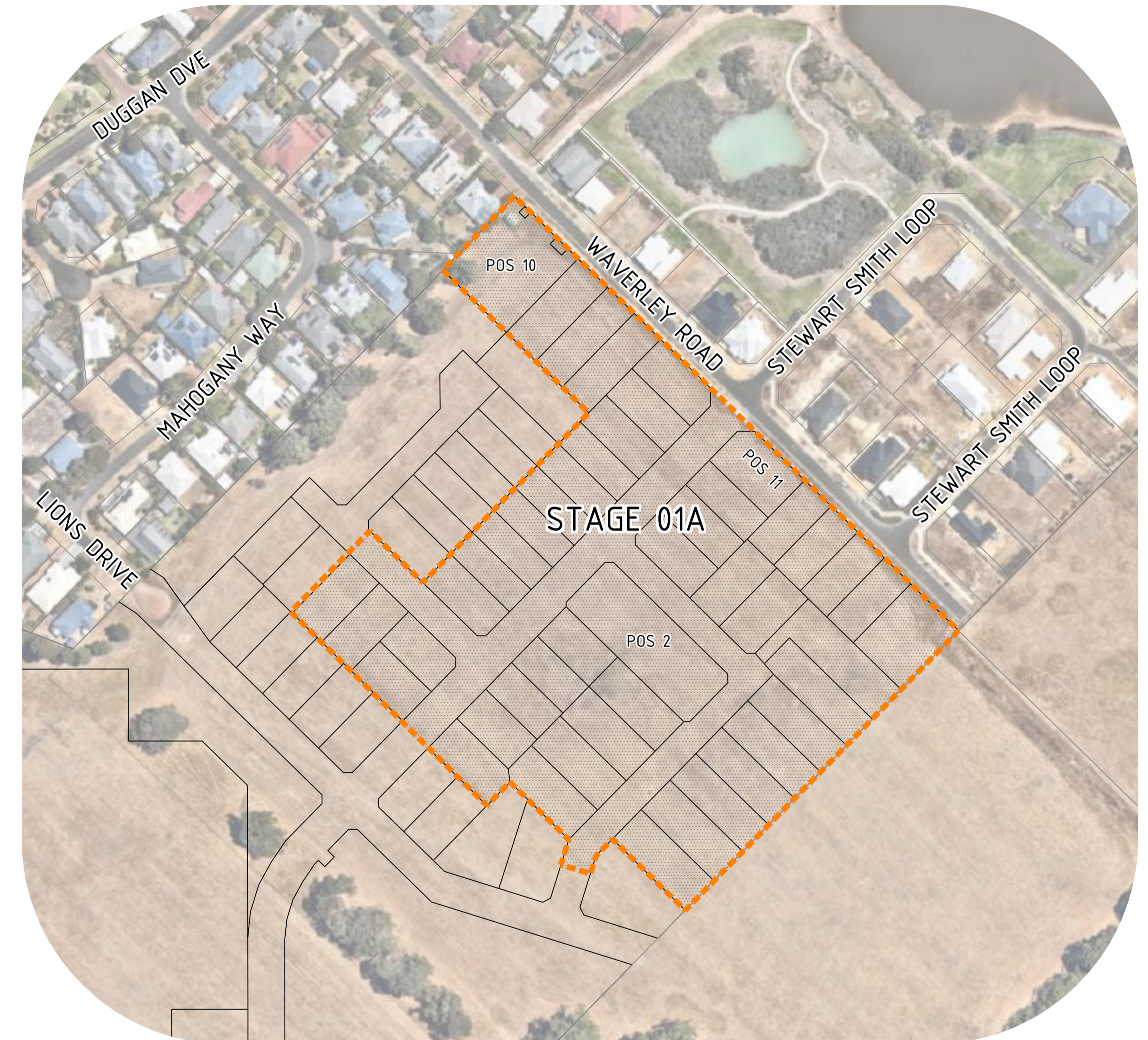
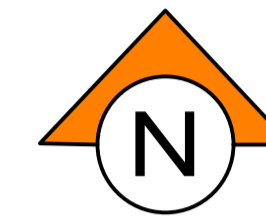
LOT 500 WIRRING ROAD COWARAMUP STAGE 01A

DRAWING LIST

JDS242318.01A_C000	COVER SHEET
JDS242318.01A_C060	SEDIMENT CONTROL PLAN - SHEET 1
JDS242318.01A_C061	SEDIMENT CONTROL PLAN - SHEET 2
JDS242318.01A_C100	EARTHWORKS PLAN - SHEET 1
JDS242318.01A_C101	EARTHWORKS PLAN - SHEET 2
JDS242318.01A_C102	EARTHWORKS SECTIONS
JDS242318.01A_C110	RETAINING WALL PLAN AND PROFILES
JDS242318.01A_C111	SUBSTATION SITE RETAINING WALL PLAN
JDS242318.01A_C201	SEWER RETICULATION PLAN - SHEET 1
JDS242318.01A_C202	SEWER RETICULATION PLAN - SHEET 2
JDS242318.01A_C300	ROADS AND TREATMENT PLAN - SHEET 1
JDS242318.01A_C301	ROADS AND TREATMENT PLAN - SHEET 2
JDS242318.01A_C302	BIN PAD PLAN AND DETAILS
JDS242318.01A_C303	BATTLE-AXE LOT SERVICING TYPICAL ALIGNMENT AND DETAILS
JDS242318.01A_C320	ROAD LONGITUDINAL SECTIONS - SHEET 1
JDS242318.01A_C321	ROAD LONGITUDINAL SECTIONS - SHEET 2
JDS242318.01A_C330	ROAD INTERSECTION DETAILS - SHEET 1
JDS242318.01A_C331	ROAD INTERSECTION DETAILS - SHEET 2
JDS242318.01A_C340	SIGNS AND LINE MARKING PLAN
JDS242318.01A_C350	DRAINAGE PLAN - SHEET 1
JDS242318.01A_C351	DRAINAGE PLAN - SHEET 2
JDS242318.01A_C360	DRAINAGE CATCHMENT AND BASIN PLAN - SHEET 1
JDS242318.01A_C361	DRAINAGE CATCHMENT AND BASIN PLAN - SHEET 2
JDS242318.01A_C370	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
JDS242318.01A_C371	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
JDS242318.01A_C372	DRAINAGE LONGITUDINAL SECTIONS - SHEET 3
JDS242318.01A_C373	DRAINAGE LONGITUDINAL SECTIONS - SHEET 4
JDS242318.01A_C374	DRAINAGE LONGITUDINAL SECTIONS - SHEET 5
JDS242318.01A_C375	DRAINAGE LONGITUDINAL SECTIONS - SHEET 6
JDS242318.01A_C380	SUBSOIL DRAINAGE PLAN - SHEET 1
JDS242318.01A_C381	SUBSOIL DRAINAGE PLAN - SHEET 2
JDS242318.01A_C400	WATER RETICULATION PLAN - SHEET 1
JDS242318.01A_C401	WATER RETICULATION PLAN - SHEET 2

DRAWING LIST

JDS242318.0_C900	STANDARD ROAD DETAILS - SHEET 1
JDS242318.0_C901	STANDARD ROAD DETAILS - SHEET 2
JDS242318.0_C910	STANDARD DRAINAGE DETAILS - SHEET 1
JDS242318.0_C911	STANDARD DRAINAGE DETAILS - SHEET 2
JDS242318.0_C912	STANDARD DRAINAGE DETAILS - SHEET 3
JDS242318.0_C950	STANDARD RETAINING WALL - SHEET 1 OF 2
JDS242318.0_C951	STANDARD RETAINING WALL - SHEET 2 OF 2
JDS242318.0_C952	STANDARD RETAINING WALL DETAILS DEEPEND FOOTINGS DETAILS



CONTRACT No. JDS242318.01A

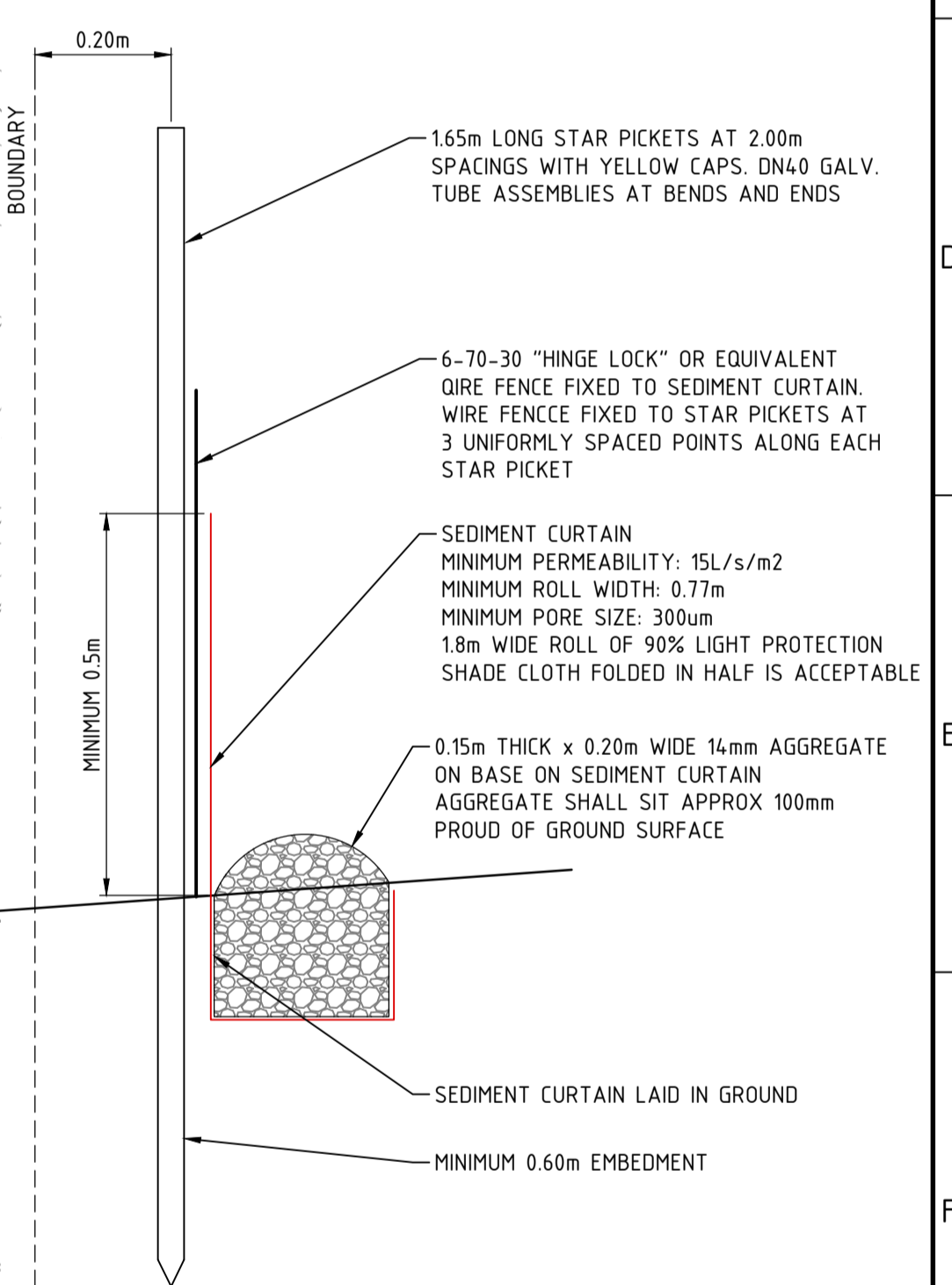
WAPC No. 200656



LEGEND

- LIMIT OF WORKS
- PROPOSED LOT NUMBER
- DESIGN/EXISTING CONTOURS (0.20m INTERVAL)
- PROPOSED RETAINING WALL
- PROPOSED SUBSOIL DRAINAGE. REFER DRAWINGS JDS242318.01 C380 AND C381
- FUTURE SUBSOIL DRAINAGE
- PROPOSED SEDIMENT CURTAIN INSTALLED PRIOR TO EARTHWORKS COMMENCING
- EXISTING TREE TO BE RETAINED
- PROPOSED BATTER
- PROPOSED SEDIMENT CURTAIN INSTALLED AT COMPLETION OF WORKS

- ### NOTES
1. CONTRACTOR TO ALLOW TO REMOVE ALL SEDIMENT CURTAINS NOT WITHIN LOTS AT COMPLETION OF WORKS
 2. STAR PICKET SPACING TO BE REDUCED TO 100m EITHER SIDE OF THE BEND AT RETURN LOCATIONS (FOR 5M LENGTH TYPICAL)
 3. ALL DRAINAGE PROPERTY CONNECTION RISERS ADJACENT SEDIMENT CURTAINS TO BE EXTENDED TO 100MM ABOVE FINISHED SURFACE AND PROVIDE GLUE ON GRATE INLET



SEDIMENT CURTAIN DETAIL
NOT TO SCALE

WARNING
BEWARE OF UNDERGROUND SERVICES

The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Work Health and Safety (General) Regulations 2022.



PLAN
SCALE 1:500

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
1	24.06.25	LV	BWW	BJW	AMENDED EARTHWORK LEVELS AS SHOWN
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	CS	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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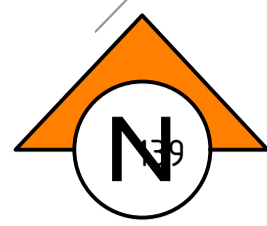
NOTE
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Certified Quality System to ISO 9001

CLIENT:

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

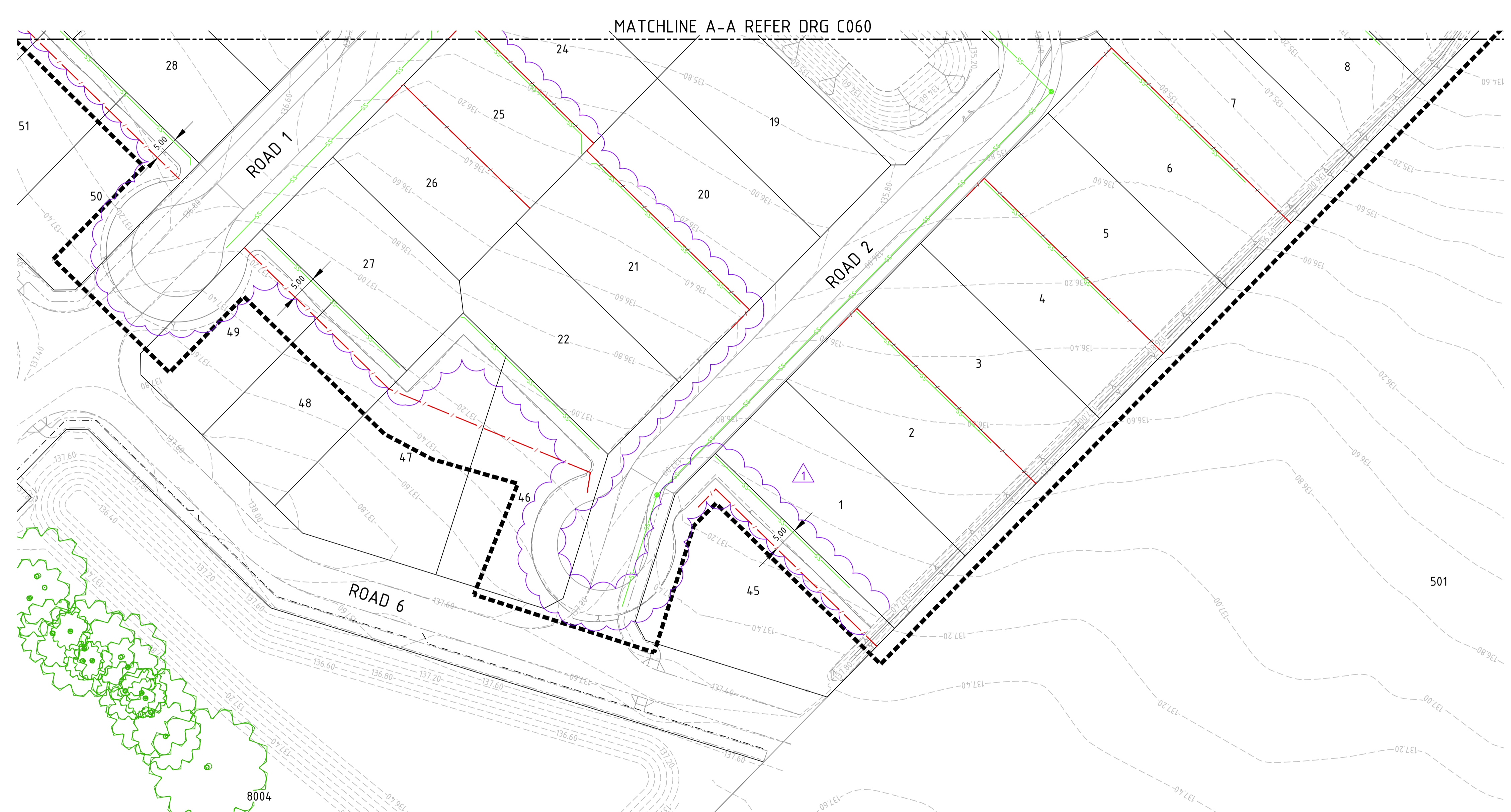
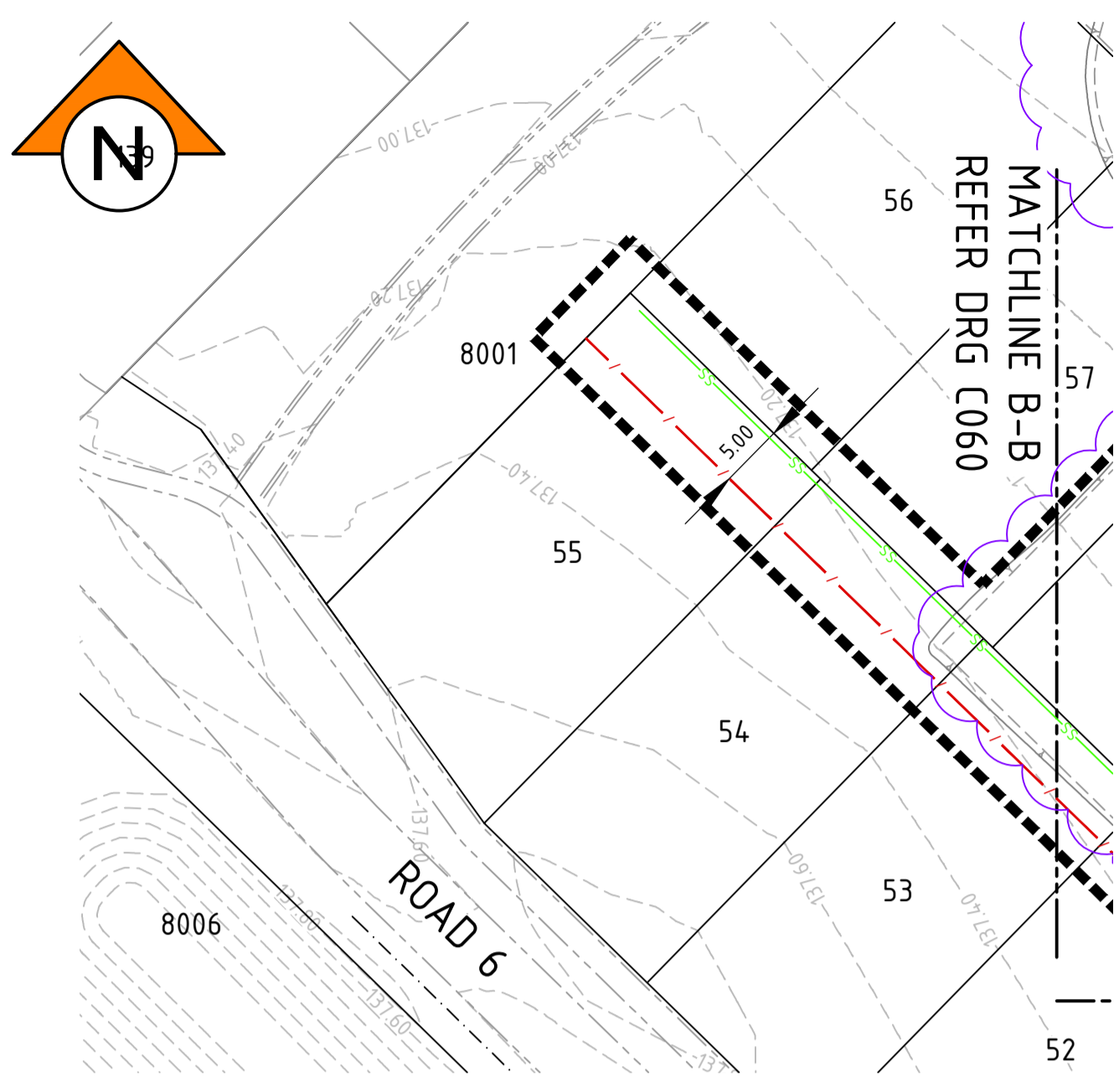
DRAWING TITLE:
SEDIMENT CONTROL PLAN
SHEET 1

DRAWN LVU	WAPC No. 200656
DESIGNED LVU	SCALE @ A1 1:500
PROJECT MANAGER B. WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C060	REVISION 1



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS
2. REFER TO DRAWING JDS242318.01A_C060 FOR NOTES AND LEGEND



PLAN
SCALE 1:500

WARNING
BEWARE OF UNDERGROUND SERVICES

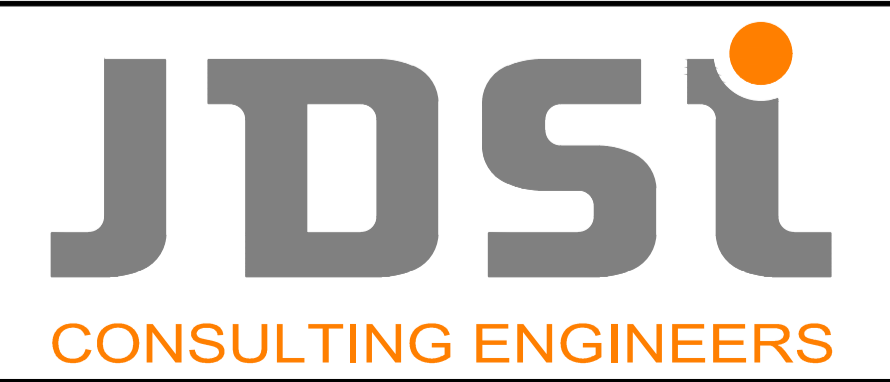
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0 5 10 20 30m
SCALE 1:500 @ ORIGINAL SHEET SIZE 'A1'

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
1	24.06.25	LV	BWW	BJW	AMENDED EARTHWORK LEVELS AS SHOWN
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	CS	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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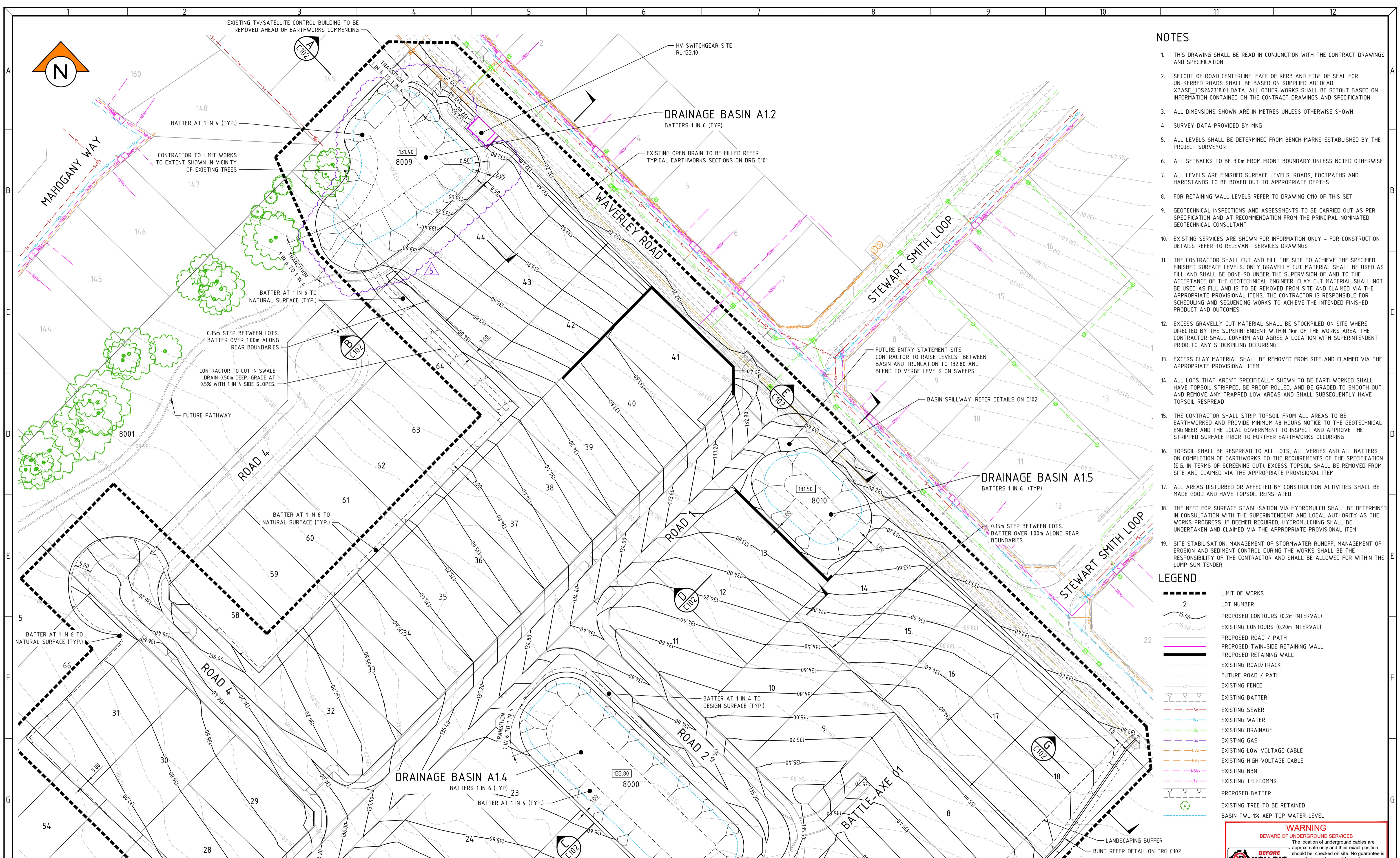


CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
SEDIMENT CONTROL PLAN
SHEET 2

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE A1 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C061	REVISION 1



- ### NOTES
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION
 - SETOUT OF ROAD CENTERLINE, FACE OF KERB AND EDGE OF SEAL FOR UN-KERBED ROADS SHALL BE BASED ON SUPPLIED AUTOCAD XBASE_JDS242318.01 DATA. ALL OTHER WORKS SHALL BE SETOUT BASED ON INFORMATION CONTAINED ON THE CONTRACT DRAWINGS AND SPECIFICATION
 - ALL DIMENSIONS SHOWN ARE IN METRES UNLESS OTHERWISE SHOWN
 - SURVEY DATA PROVIDED BY MNG
 - ALL LEVELS SHALL BE DETERMINED FROM BENCH MARKS ESTABLISHED BY THE PROJECT SURVEYOR
 - ALL SETBACKS TO BE 3.0m FROM FRONT BOUNDARY UNLESS NOTED OTHERWISE
 - ALL LEVELS ARE FINISHED SURFACE LEVELS. ROADS, FOOTPATHS AND HARDSTANDS TO BE BOXED OUT TO APPROPRIATE DEPTHS
 - FOR RETAINING WALL LEVELS REFER TO DRAWING C110 OF THIS SET
 - GEOTECHNICAL INSPECTIONS AND ASSESSMENTS TO BE CARRIED OUT AS PER SPECIFICATION AND AT RECOMMENDATION FROM THE PRINCIPAL NOMINATED GEOTECHNICAL CONSULTANT
 - EXISTING SERVICES ARE SHOWN FOR INFORMATION ONLY - FOR CONSTRUCTION DETAILS REFER TO RELEVANT SERVICES DRAWINGS
 - THE CONTRACTOR SHALL CUT AND FILL THE SITE TO ACHIEVE THE SPECIFIED FINISHED SURFACE LEVELS. ONLY GRAVELLY CUT MATERIAL SHALL BE USED AS FILL AND SHALL BE DONE SO UNDER THE SUPERVISION OF AND TO THE ACCEPTANCE OF THE GEOTECHNICAL ENGINEER. CLAY CUT MATERIAL SHALL NOT BE USED AS FILL AND IS TO BE REMOVED FROM SITE AND CLAIMED VIA THE APPROPRIATE PROVISIONAL ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND SEQUENCING WORKS TO ACHIEVE THE INTENDED FINISHED PRODUCT AND OUTCOMES
 - EXCESS GRAVELLY CUT MATERIAL SHALL BE STOCKPILED ON SITE WHERE DIRECTED BY THE SUPERINTENDENT WITHIN 1km OF THE WORKS AREA. THE CONTRACTOR SHALL CONFIRM AND AGREE A LOCATION WITH SUPERINTENDENT PRIOR TO ANY STOCKPILING OCCURRING
 - EXCESS CLAY MATERIAL SHALL BE REMOVED FROM SITE AND CLAIMED VIA THE APPROPRIATE PROVISIONAL ITEM
 - ALL LOTS THAT AREN'T SPECIFICALLY SHOWN TO BE EARTHWORKED SHALL HAVE TOPSOIL STRIPPED, BE PROOF ROLLED, AND BE GRADED TO SMOOTH OUT AND REMOVE ANY TRAPPED LOW AREAS AND SHALL SUBSEQUENTLY HAVE TOPSOIL RESPAED
 - THE CONTRACTOR SHALL STRIP TOPSOIL FROM ALL AREAS TO BE EARTHWORKED AND PROVIDE MINIMUM 48 HOURS NOTICE TO THE GEOTECHNICAL ENGINEER AND THE LOCAL GOVERNMENT TO INSPECT AND APPROVE THE STRIPPED SURFACE PRIOR TO FURTHER EARTHWORKS OCCURRING
 - TOPSOIL SHALL BE RESPAED TO ALL LOTS, ALL VERGES AND ALL BATTERS ON COMPLETION OF EARTHWORKS TO THE REQUIREMENTS OF THE SPECIFICATION (E.G. IN TERMS OF SCREENING OUT). EXCESS TOPSOIL SHALL BE REMOVED FROM SITE AND CLAIMED VIA THE APPROPRIATE PROVISIONAL ITEM
 - ALL AREAS DISTURBED OR AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE MADE GOOD AND HAVE TOPSOIL REINSTATED
 - THE NEED FOR SURFACE STABILISATION VIA HYDROMULCH SHALL BE DETERMINED IN CONSULTATION WITH THE SUPERINTENDENT AND LOCAL AUTHORITY AS THE WORKS PROGRESS. IF DEEMED REQUIRED, HYDROMULCHING SHALL BE UNDERTAKEN AND CLAIMED VIA THE APPROPRIATE PROVISIONAL ITEM
 - SITE STABILISATION, MANAGEMENT OF STORMWATER RUNOFF, MANAGEMENT OF EROSION AND SEDIMENT CONTROL DURING THE WORKS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ALLOWED FOR WITHIN THE LUMP SUM TENDER

- ### LEGEND
- 2 LIMIT OF WORKS
 - LOT NUMBER
 - PROPOSED CONTOURS (0.2m INTERVAL)
 - EXISTING CONTOURS (0.20m INTERVAL)
 - PROPOSED ROAD / PATH
 - PROPOSED TWIN-SIDE RETAINING WALL
 - PROPOSED RETAINING WALL
 - EXISTING ROAD/TRACK
 - FUTURE ROAD / PATH
 - EXISTING FENCE
 - EXISTING BATTER
 - EXISTING SEWER
 - EXISTING WATER
 - EXISTING DRAINAGE
 - EXISTING GAS
 - EXISTING LOW VOLTAGE CABLE
 - EXISTING HIGH VOLTAGE CABLE
 - EXISTING NBN
 - EXISTING TELECOMMS
 - PROPOSED BATTER
 - EXISTING TREE TO BE RETAINED
 - BASIN TWL 1% AEP TOP WATER LEVEL

WARNING

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SCALE 1500 @ ORIGINAL SHEET SIZE A1

MATCHLINE A REFER DRG C101 - SHEET 2

PLAN SCALE 1:500

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
5	28.10.25	LV	BWW	BJW	BASIN A12 AMENDED
4	24.07.25	LV	BWW	BJW	BASIN A12 AMENDMENTS TO SUIT WP SUBSTATION AND ROAD 4 MODIFICATIONS
3	24.06.25	LV	BWW	BJW	EARTHWORKS AMENDED FOR RAISED ROAD 1 & ROAD 4
2	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION - MINOR AMENDMENTS
1	05.05.25	LV	BWW	BJW	RE-ISSUED FOR CONSTRUCTION
0	21.03.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

DATE	DRAWN	CHECKED	APPROVED
28/10/25	LV	BWW	BJW

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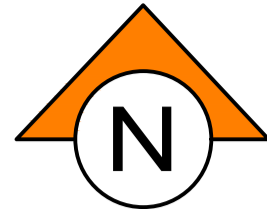
NOTE
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Certified Quality System to ISO 9001

CLIENT:

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

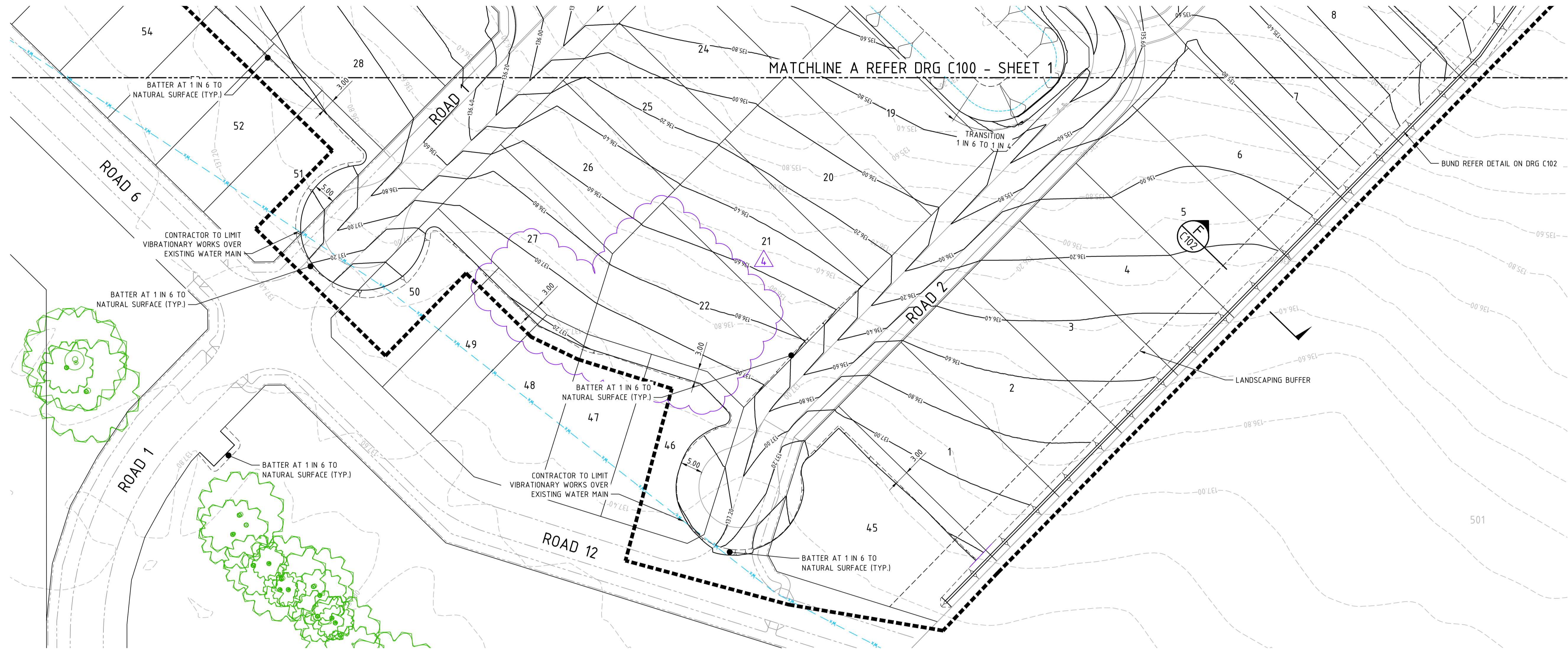
DRAWING TITLE:
EARTHWORKS PLAN
SHEET 1

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE @ A1 1:500
PROJECT MANAGER B. WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRC694
DRAWING No. C100	REVISION 5



NOTES

- 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS
- 2. REFER TO DRAWING JDS242318.01A_C100 FOR NOTES AND LEGEND



PLAN
SCALE 1:500



WARNING
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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
4	10.07.25	LV	BWW	BJW	EARTHWORKS AMENDED FOR UPDATED PRECAL LOT 22 AND 27
3	24.06.25	LV	BWW	BJW	EARTHWORKS AMENDED FOR RAISED ROAD 1 & ROAD 4
2	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION - MINOR AMENDMENTS
1	05.05.25	LV	BWW	BJW	RE-ISSUED FOR CONSTRUCTION
0	21.03.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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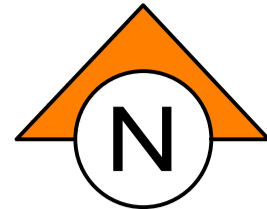


CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
EARTHWORKS PLAN
SHEET 2

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE A1 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-GRDS MRCG94
DRAWING No. C101	REVISION 4

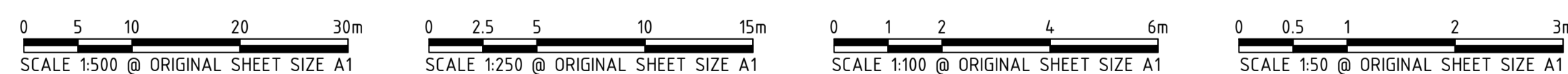
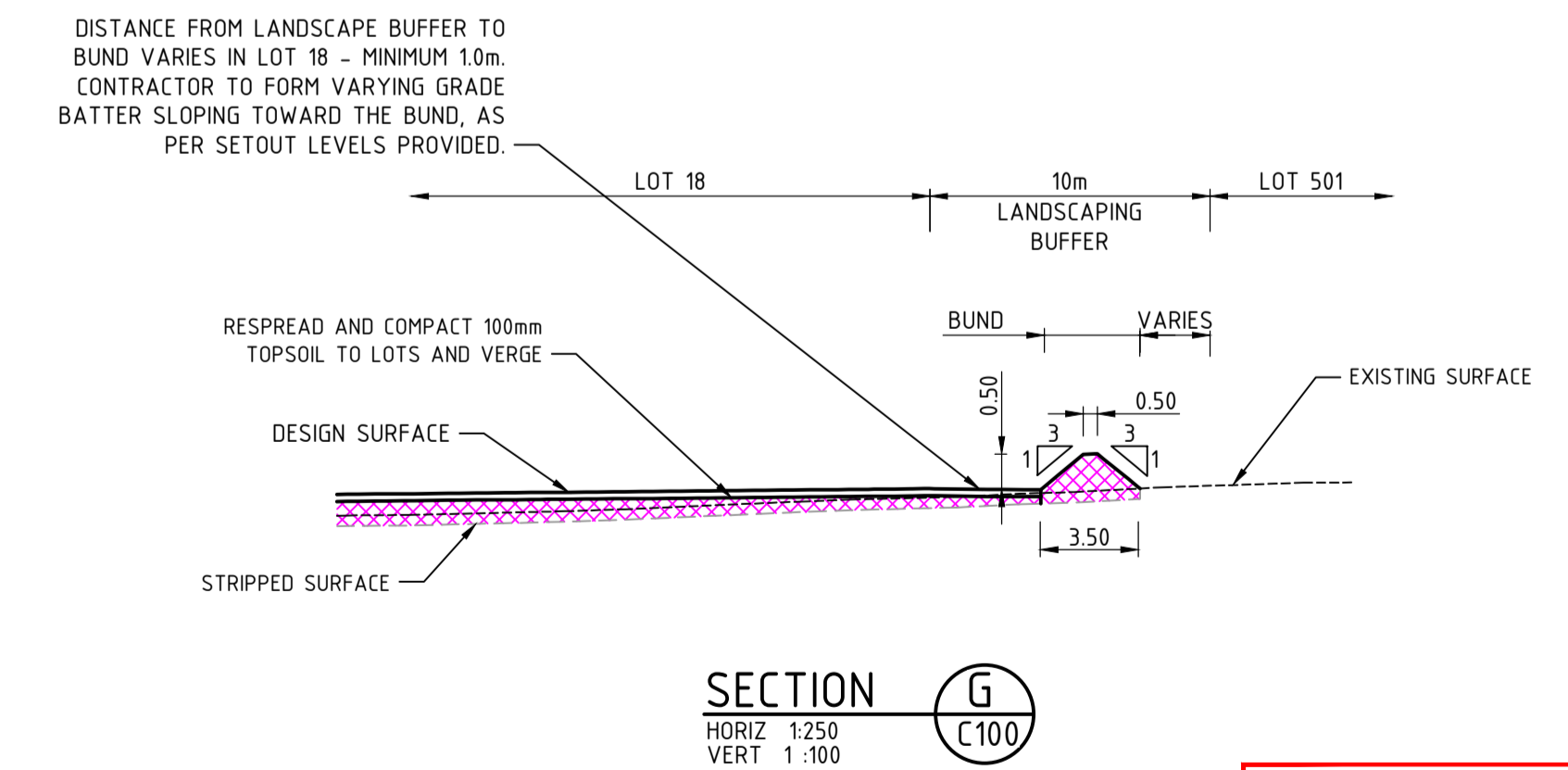
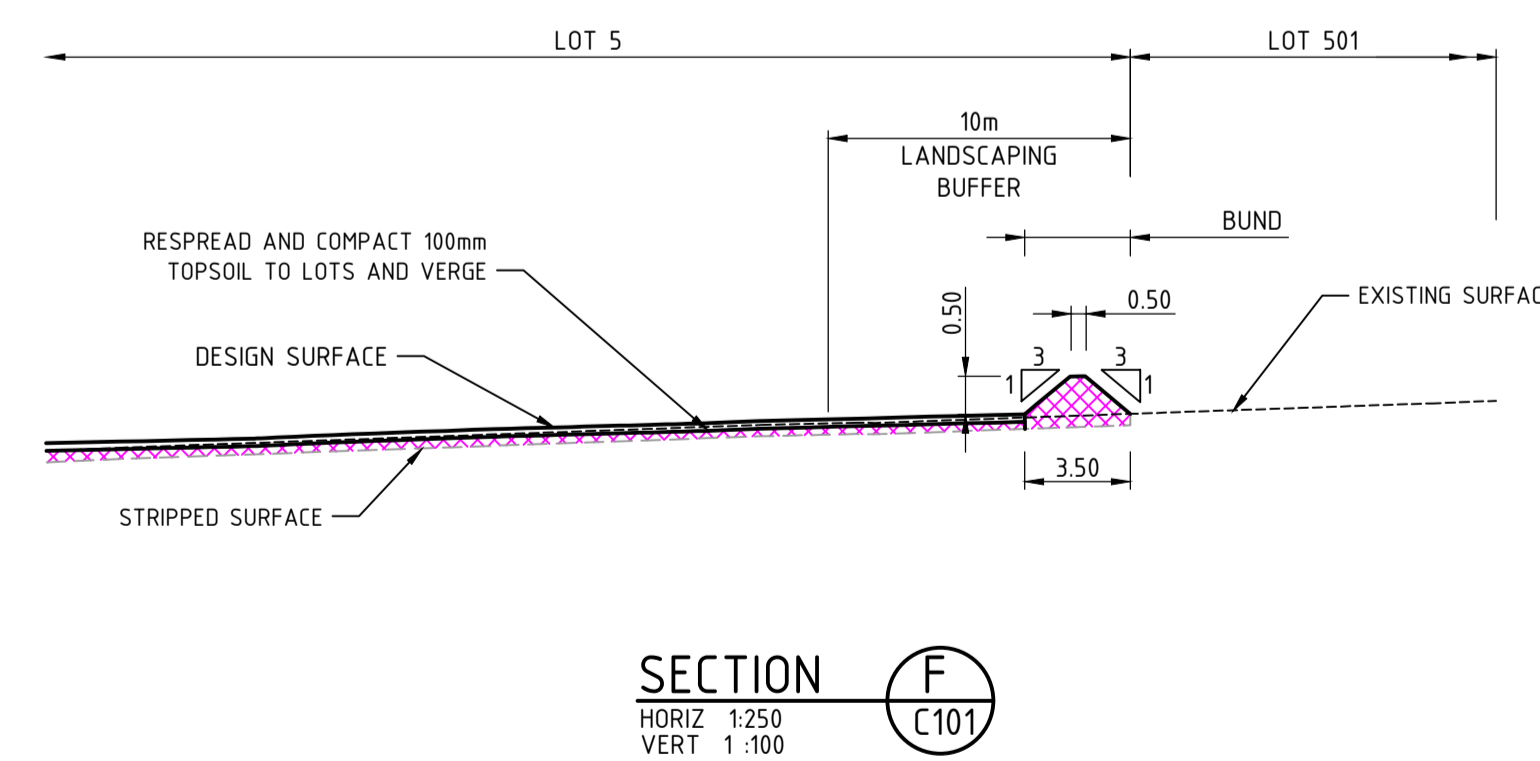
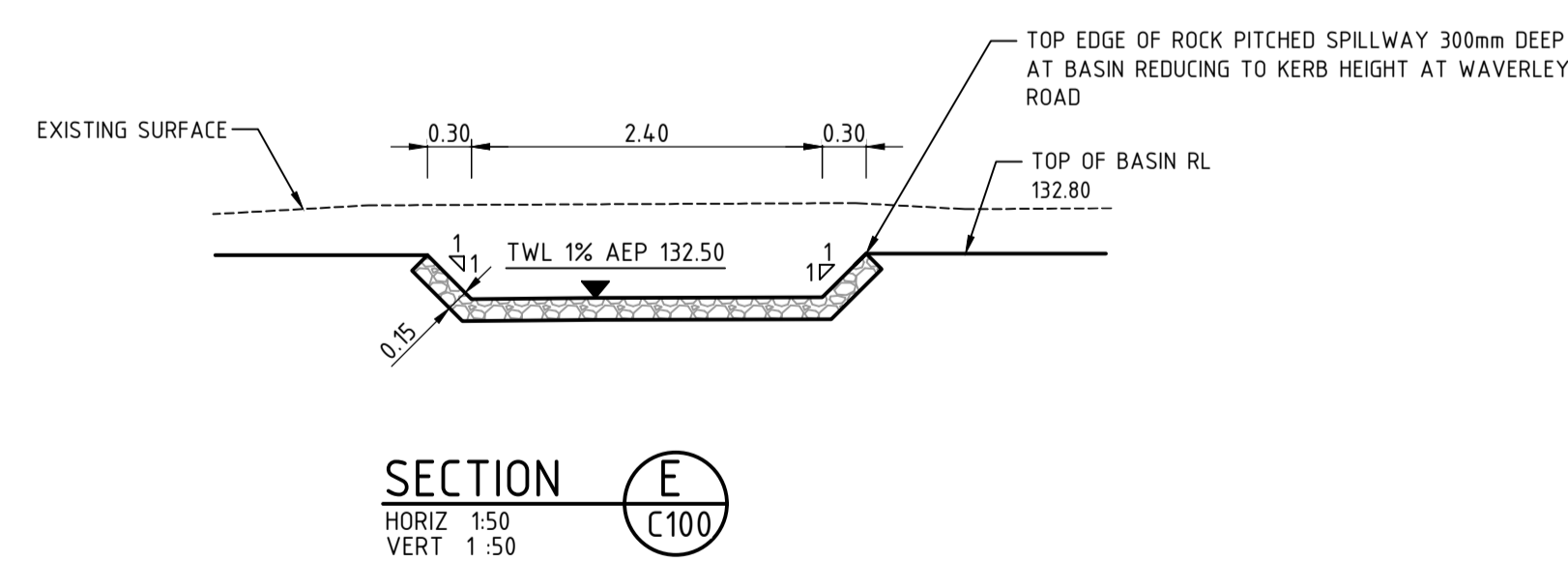
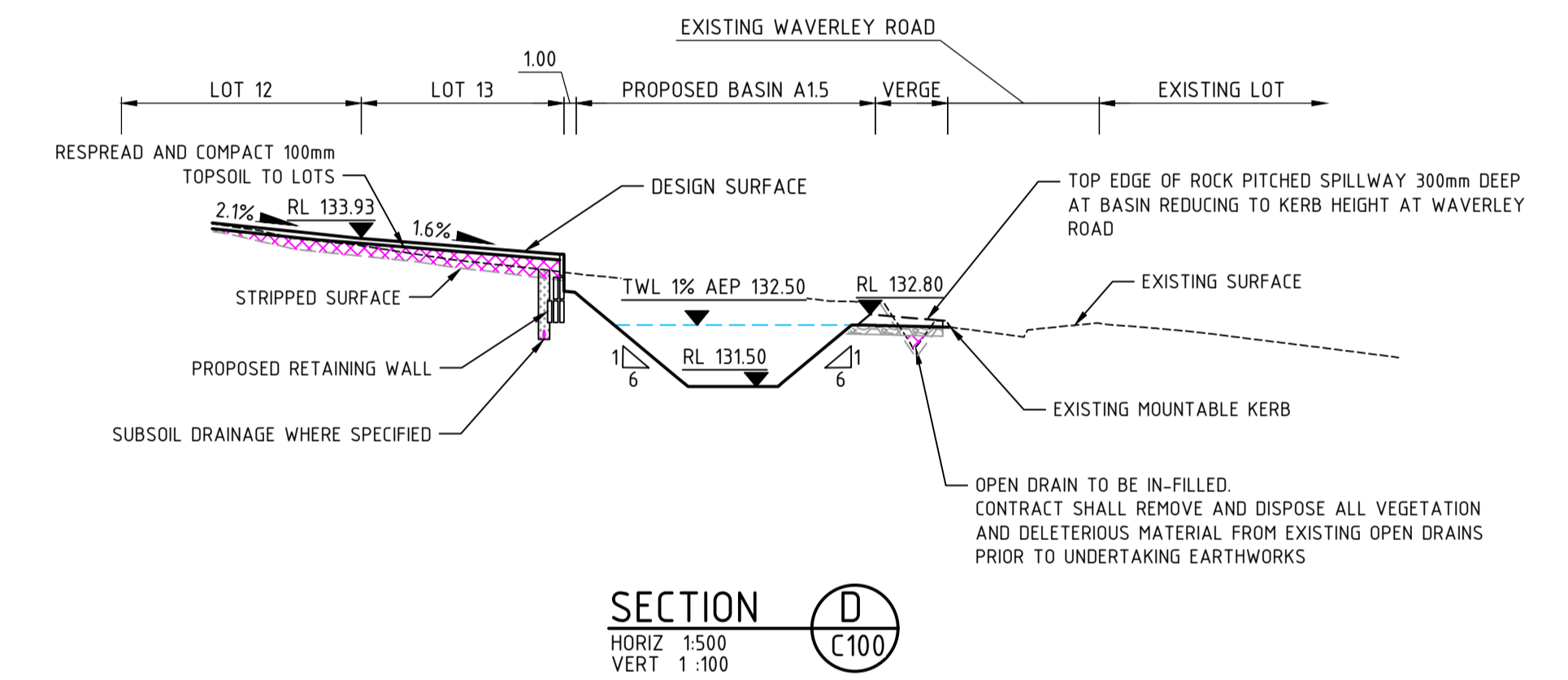
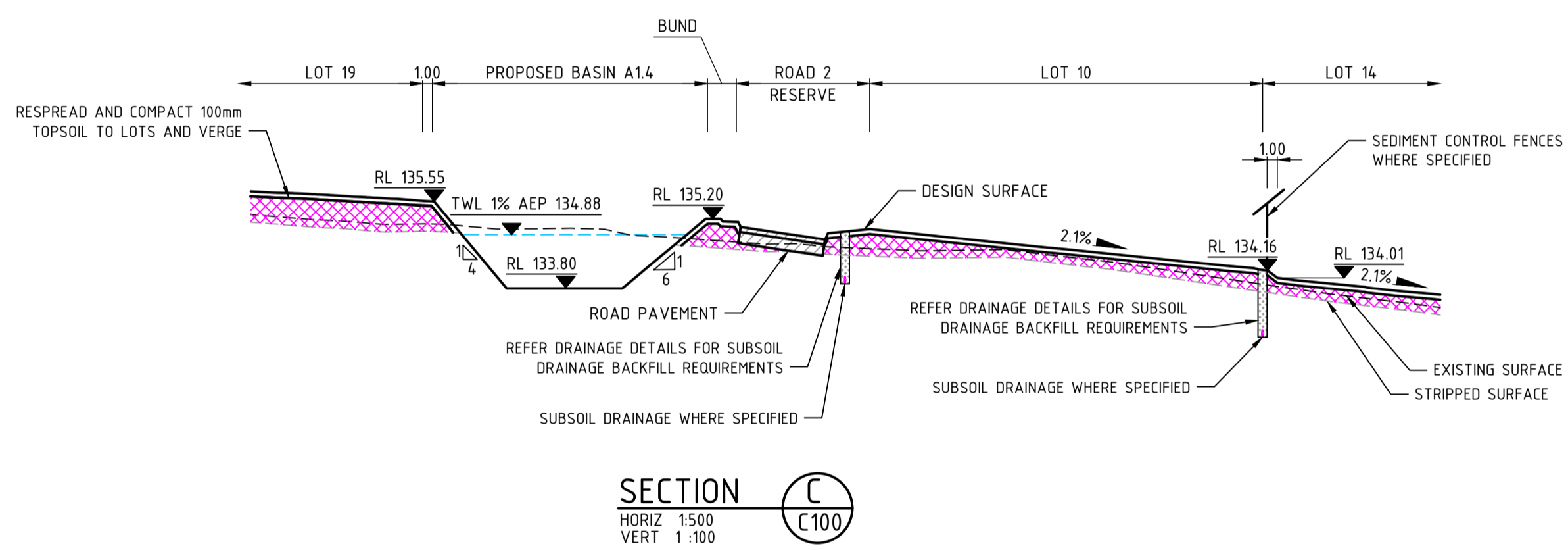
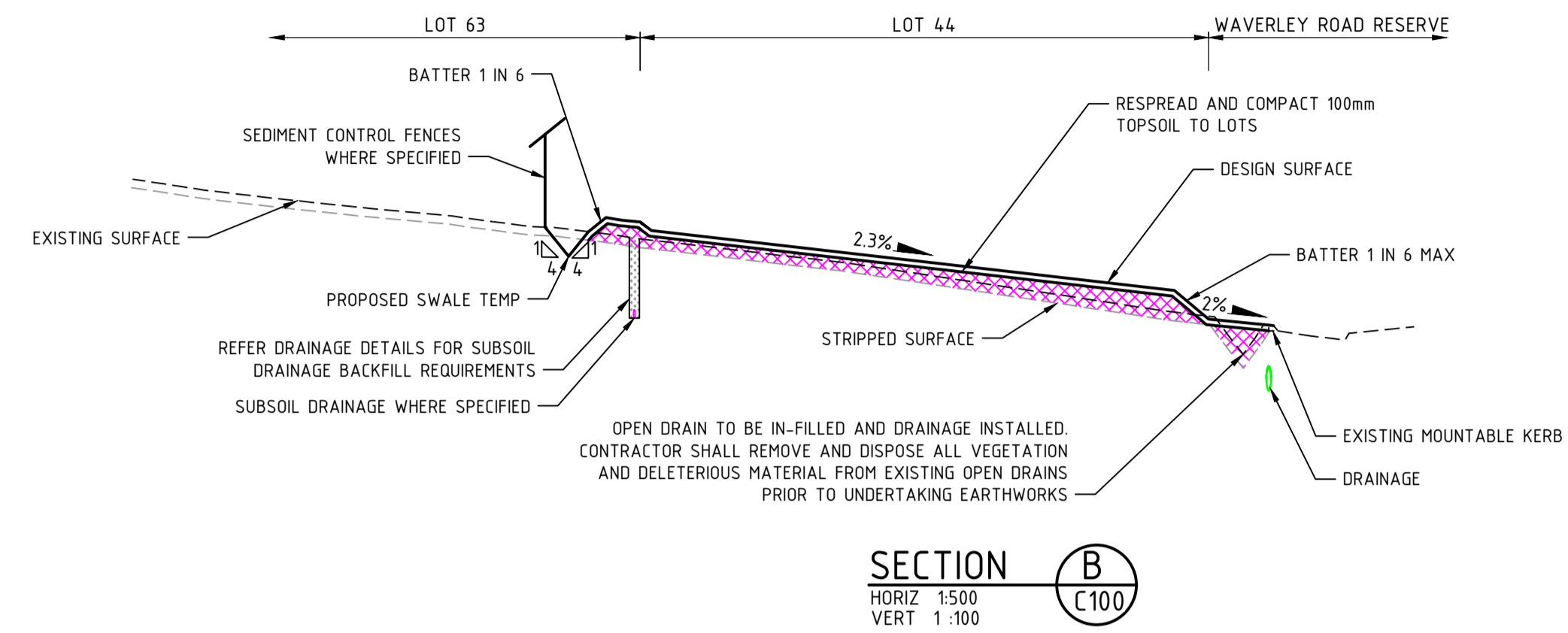
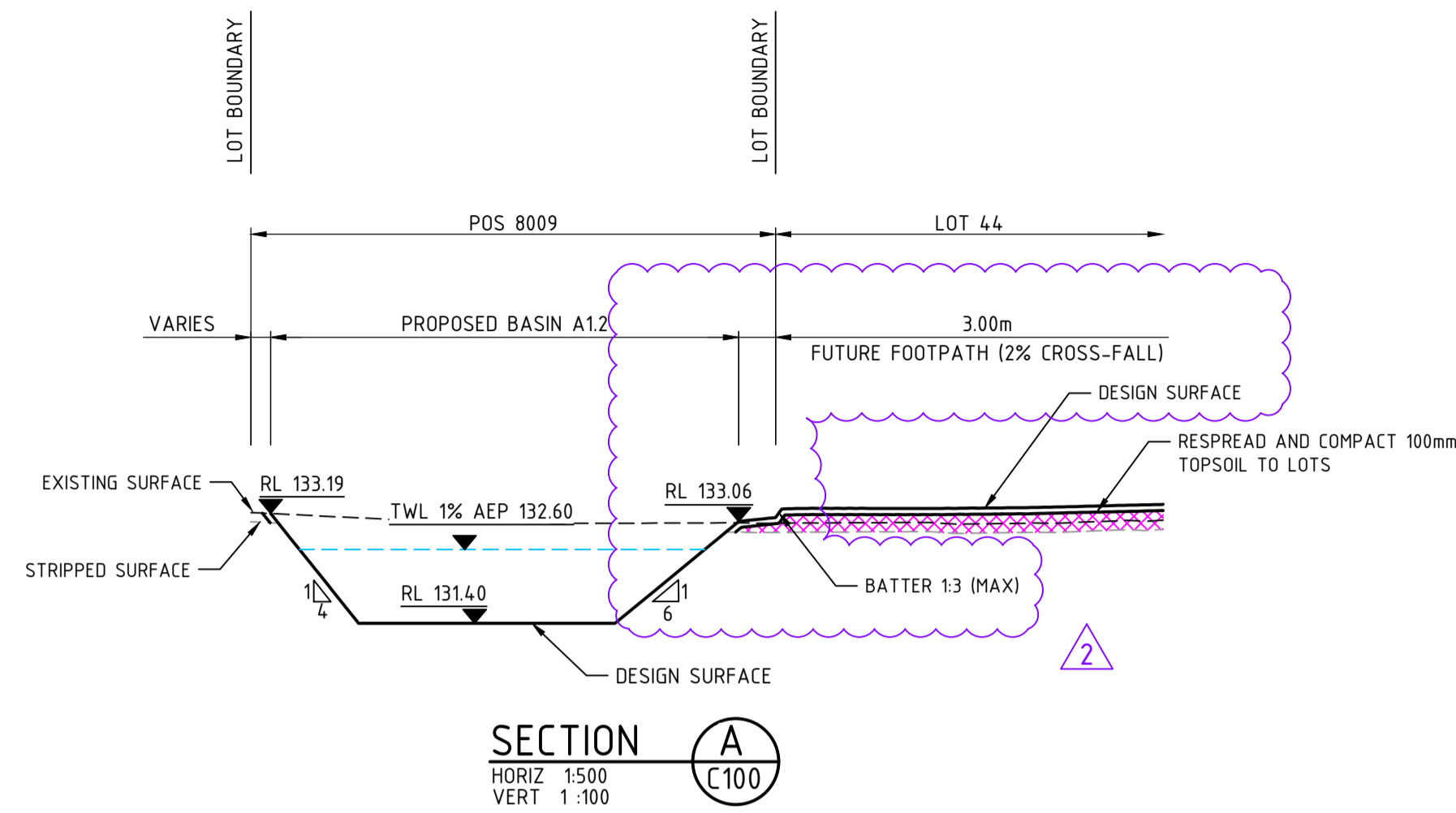


NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
2. ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.

LEGEND

 CUT TO FILL ON SITE SANDY /GRAVELLY MATERIAL ONLY, NO CLAY OR ROCK



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BEFORE YOU DIG
www.byds.com.au

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
2	28.10.25	LV	BWW	BJW	SECTION A AMENDED
1	05.05.25	LV	BWW	BJW	AMENDMENTS TO SECTIONS, ADDITION OF SPILLWAY DETAILS AND RE-ISSUED FOR CONSTRUCTION
0	21.03.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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JDSi
CONSULTING ENGINEERS

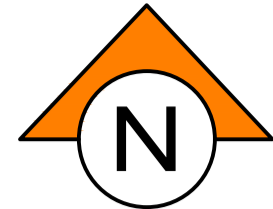
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

CLIENT:
**LOT 500 WIRING ROAD
COWARAMUP STAGE 01A**

PROJECT:
**LOT 500 WIRING ROAD
COWARAMUP STAGE 01A**

DRAWING TITLE:
EARTHWORKS SECTIONS

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-GRDS MRCG94
DRAWING No. C102	REVISION 2



NOTES

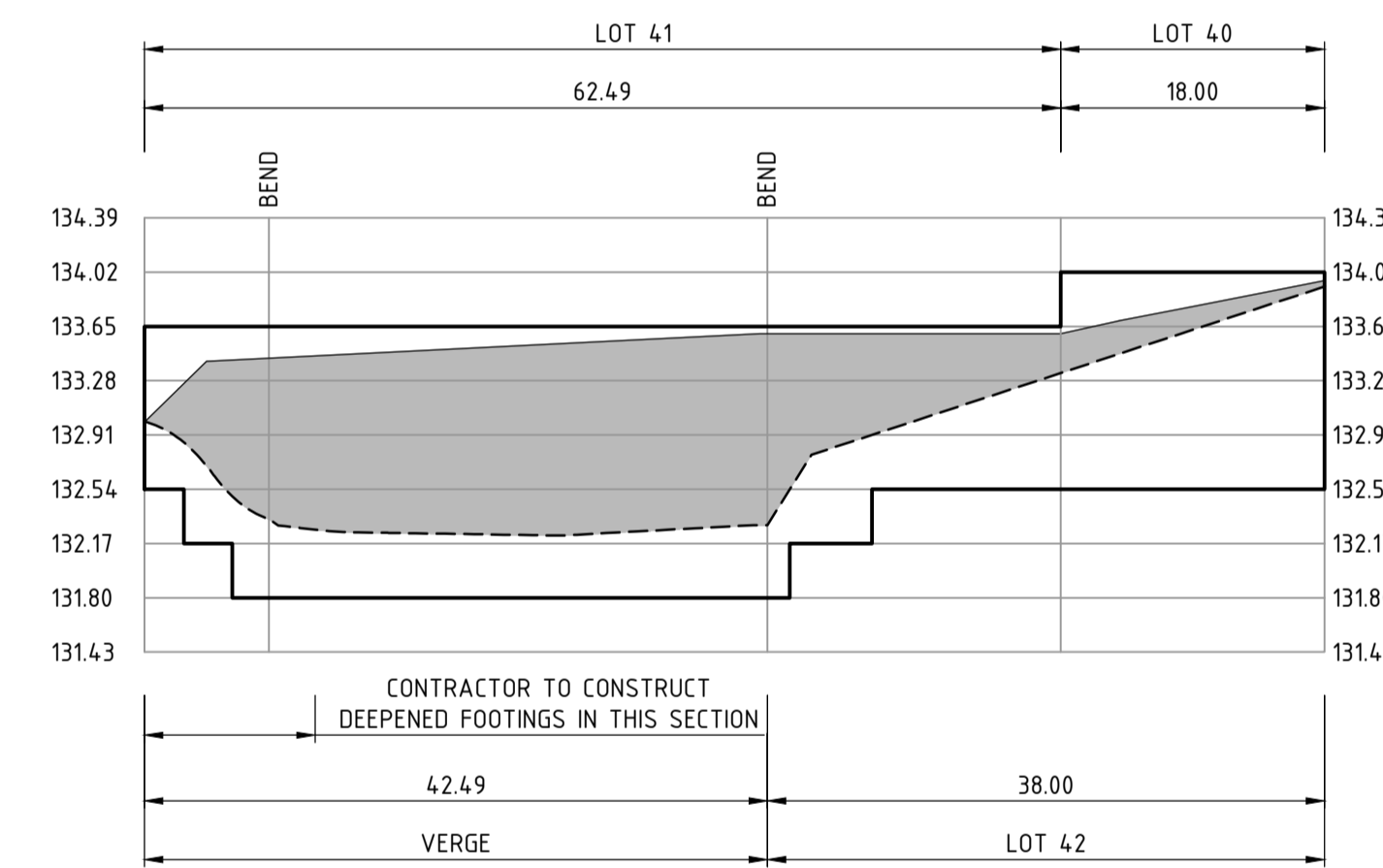
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION
2. THE CONTRACTOR SHALL ENSURE THAT ALL INTERCONNECTING WALL COURSES MATCH
3. FOR DETAILS REFER DRAWING C950-C952 OF THIS SET
4. BOUNDING WALLS BETWEEN LOTS TO BE TAPERED TO SUIT PAD LEVEL AND VERGE LEVEL OVER 2.5m TO 1 COURSE HEIGHT AT 1500 SETBACK, UNLESS NOTED OTHERWISE
5. ALL LEVELS AND SETOUT BENCHMARKS TO BE BY LICENSED SURVEYOR
6. CONTROL JOINT LOCATIONS ARE DEPENDENT ON CONSTRUCTION METHODOLOGY. THE CONTRACTOR SHALL REFER TO STANDARD RETAINING WALL DRAWINGS FOR JOINT LOCATIONS
7. CONTRACTOR TO INSTALL ALL CONDUITS REQUIRED UNDER WALLS AS PER THE RELEVANT AUTHORITY STANDARDS PRIOR TO CONSTRUCTION OF WALLS

LEGEND

- 2 LOT NUMBER
- PROPOSED LIMESTONE RETAINING WALL
- PROPOSED TWIN-SIDE RETAINING WALL
- WALL 'A'
- WALL ELEVATION REFERENCE
- PROPOSED CONTOURS (0.2m INTERVAL)
- EXISTING CONTOURS (0.20m INTERVAL)
- DEEPEMED FOOTING LOCATION (TYPE 1) REFER C952
- DEEPEMED FOOTING LOCATION (TYPE 2) REFER C952
- PROPOSED BATTER
- PROPOSED LIMESTONE RETAINING WALL
- PROPOSED LOT LEVEL
- PROPOSED VERGE LEVEL
- GRID LINE
- TOW 133.00 TOP OF WALL LEVEL
- RETAINED AREA/HEIGHT

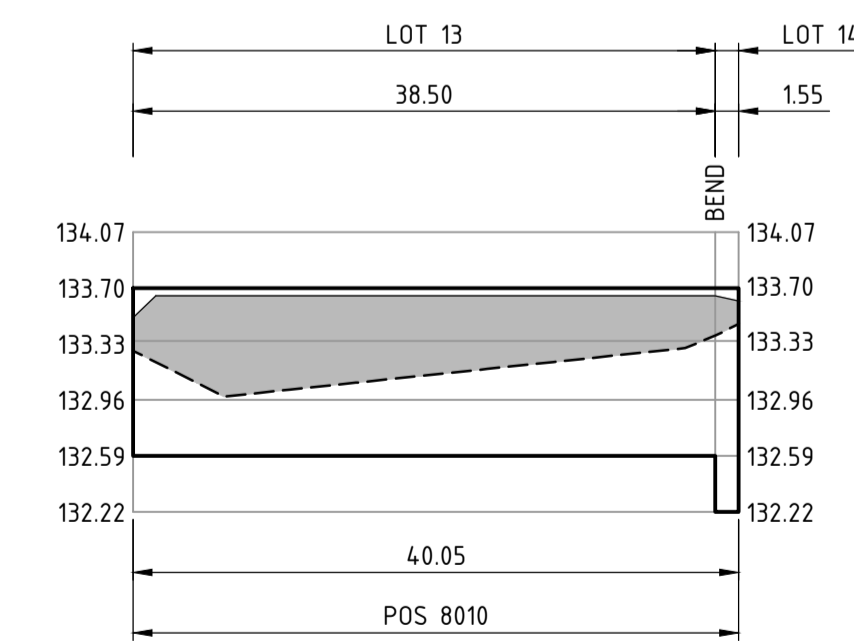


PLAN
SCALE 1:500



RETAINING WALL A

SCALE H 1 : 500
V 1 : 50



RETAINING WALL B

SCALE H 1 : 500
V 1 : 50

WARNING
BEWARE OF UNDERGROUND SERVICES

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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
1	18.06.25	LV	BWW	BJW	4C SINGLE LEAF LOCATIONS ADDED. SUBSTATION ADDED.
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	CS	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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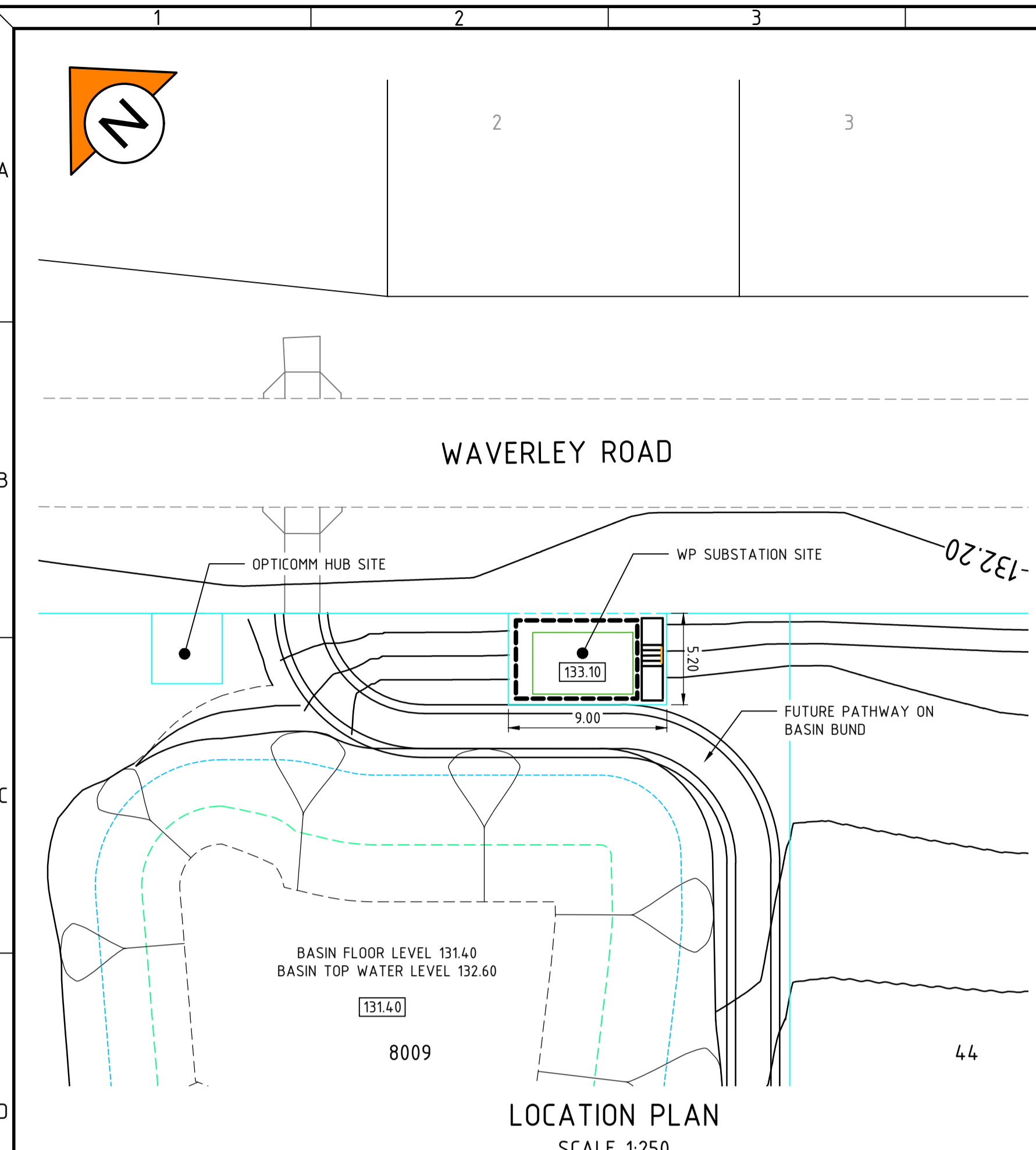


CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

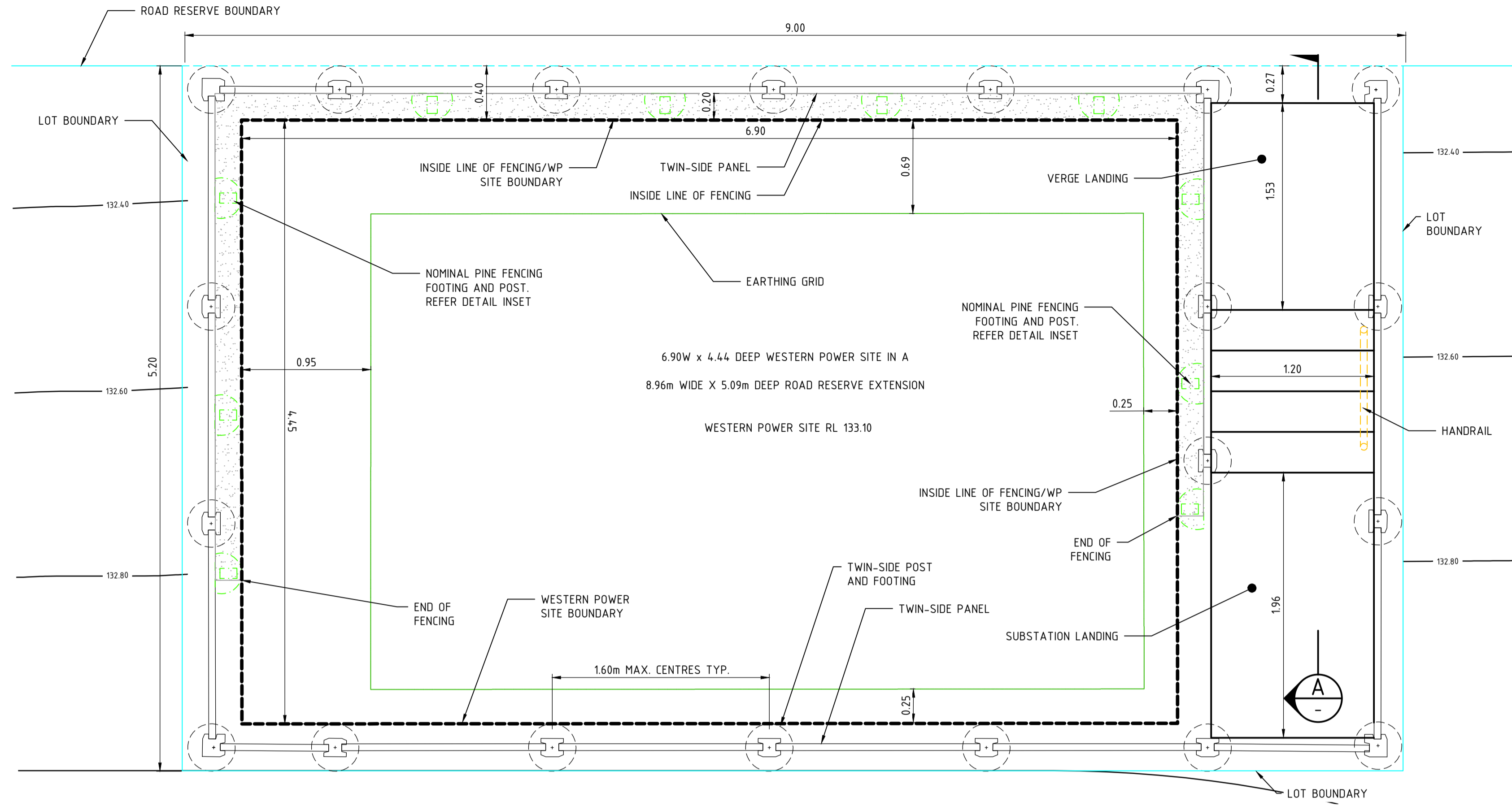
PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
RETAINING WALL PLAN AND PROFILES

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE AS SHOWN
PROJECT MANAGER B. WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS24-2318.01A	CO-GRDS MRC694
DRAWING No. C110	REVISION 1



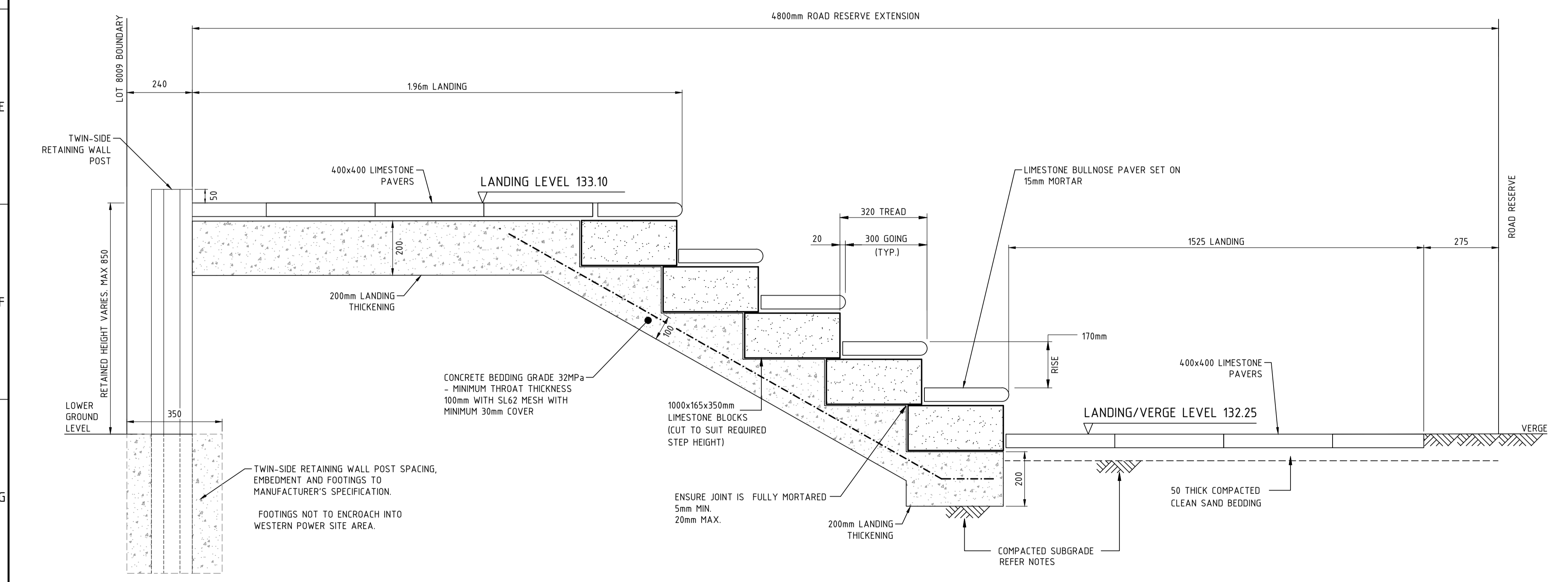
LOCATION PLAN
SCALE 1:250



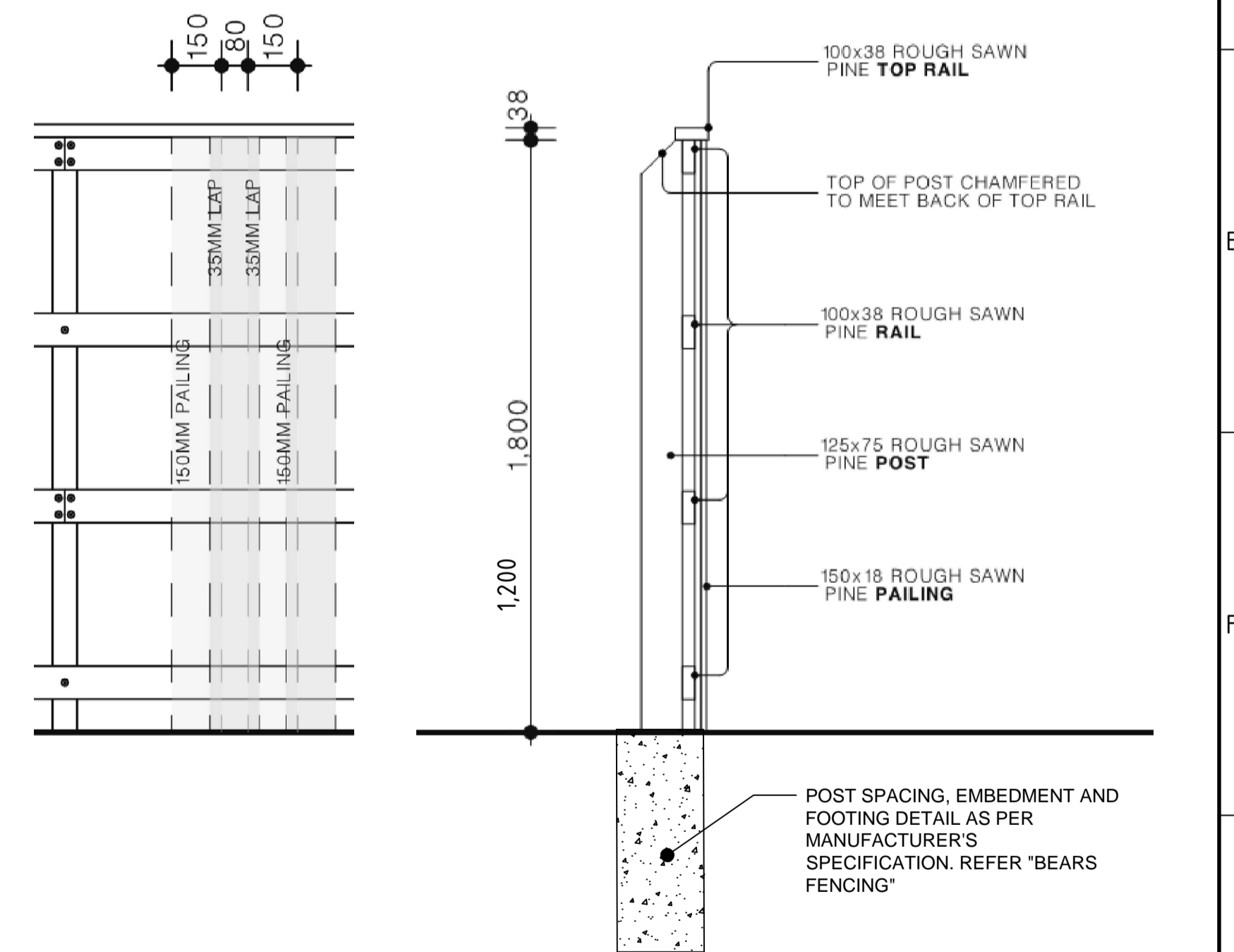
SUBSTATION RETAINING PLAN
SCALE 1:25

- NOTES**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION
 - THE CONTRACTOR SHALL ENSURE THAT ALL INTERCONNECTING WALL COURSES MATCH
 - FOR TWIN-SIDE RETAINING WALL DETAILS REFER TO MANUFACTURER'S SPECIFICATIONS AND INSTALLATION GUIDELINES
 - TWIN-SIDE PANELS TO BE STANDARD TYPE.
 - ALL LEVELS AND SETOUT BENCHMARKS TO BE BY LICENSED SURVEYOR
 - CONTRACTOR TO INSTALL ALL CONDUITS REQUIRED UNDER WALLS AS PER THE RELEVANT AUTHORITY STANDARDS PRIOR TO CONSTRUCTION OF WALLS
 - ALL EXPOSED MORTAR JOINTS SHALL MATCH BLOCK COLOUR
 - ALL MORTARED JOINTS SHALL BE TOoled FINISHED
 - ALL WORKS SHALL BE CONSTRUCTED TO WORK SAFE PRACTICES TO ENSURE SAFETY TO PERSONNEL AND STRUCTURES
 - COMPACT THE SOIL UNDER FOOTINGS AND STAIRS TO 8 BLOWS PER 300mm TESTED USING A STANDARD PERth SAND PENETROMETER FOR A DEPTH OF AT LEAST 750mm BELOW THE FOUNDING LEVEL OF THE FOOTINGS AND STAIRS OR TO A MINIMUM OF 95% MODIFIED MAXIMUM DRY DENSITY
 - BACKFILL MATERIAL SHALL CONSIST OF COMPACTED CLEAN SAND THAT CAN BE TESTED USING A STANDARD PERth PENETROMETER

- LEGEND**
- PROPOSED CADASTRAL BOUNDARY
 - 8009 PROPOSED LOT NUMBER
 - 133.10 PROPOSED PAD/FINISHED LEVEL
 - 15.00 PROPOSED CONTOURS (0.2m INTERVAL)
 - PROPOSED BATTER
 - WESTERN POWER SUBSTATION SITE BOUNDARY



TYPICAL STAIR SECTION A-A
SCALE 1:10

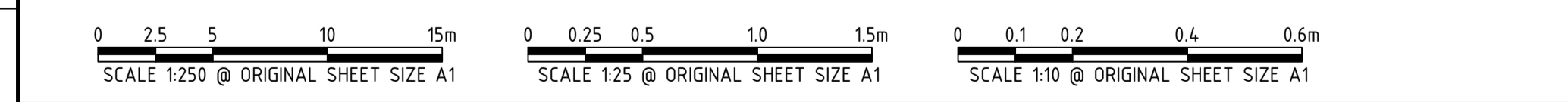


TYPICAL PINE FENCING DETAIL
(REFER TO "BEAR FENCING" WEBSITE)

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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
0	17.10.25	CS	BWW	BJW	ISSUED FOR CONSTRUCTION
C	11.08.25	CS	BWW	BJW	UPDATED SITE DIMENSIONS
B	04.08.25	CS	BWW	BJW	ISSUED FOR NER APPROVAL
A	01.07.25	CS	BWW	BJW	PRELIMINARY DESIGN FOR COORDINATION

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JDSi
CONSULTING ENGINEERS

Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

CLIENT:
LOT 500 WIRring ROAD
COWARAMUP STAGE 01A

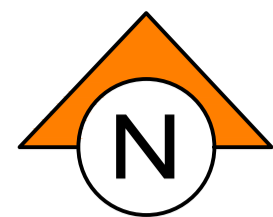
PROJECT:
SUBSTATION SITE RETAINING PLAN

DRAWN: C. STEWART
DESIGNED: B. WHITFIELD
PROJECT MANAGER: B. WASHFOLD

WAPC No.: 200656
SCALE: A1
AS SHOWN

DATUM: AHD71
CO-GRDS: MRCG94

JDSi PROJECT No.: JDS242318.01A
DRAWING No.: C111
REVISION: 0



SITE PLAN NOTES

- LOCALITY AUTHORITY: SHIRE OF AUGUSTA MARGARET RIVER
- LENGTH OF SEWERS: 150 DIAMETER - 703.4m
 - NUMBER OF ACCESS CHAMBERS - 4
 - NUMBER OF MAINTENANCE SHAFTS - 4
 - TOTAL NUMBER OF LOTS BEING SERVED - 45
 - THIS RETICULATION AREA IS CLASSIFIED 'WET' IN ACCORDANCE WITH THE WATER CORPORATION WASTEWATER MANUAL VOL. 1 UNLESS NOTED OTHERWISE.

Caution: Works are near existing Assets
The proposed work is within proximity to an existing Water Corporation asset and is higher risk in nature.
Asset protection control may apply.

NOTES

- ALL SEWERAGE RETICULATION WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE WATER CORPORATION'S DESIGN STANDARD D550 (D550), THE CONTRACT, THE SPECIFICATIONS AND THE CURRENT WATER CORPORATION STANDARD DRAWINGS
- CONSTRUCTION OF SEWERS IN LOTS WITH FILL SHALL NOT PROCEED UNTIL FILL IS PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATION
- THE CONTRACTOR SHALL DETERMINE AND BE RESPONSIBLE FOR THE BEDDING CONDITIONS TO COMPLY WITH THE REQUIREMENTS OF D550
- DX = DUPLEX (REQUIRES TWO BOUNDARY CONNECTIONS) GH = GROUP HOUSING (REQUIRES 150 CONNECTION)
- CENTRES OF ALL ACCESS CHAMBERS TO BE 3.2m FROM FRONT BOUNDARIES AND 1.0m FROM SIDE AND REAR BOUNDARIES OF LOT UNLESS OTHERWISE DIMENSIONED
- PROPERTY CONNECTIONS ARE SHOWN INDICATIVELY. CONTRACTOR TO CONSTRUCT IN ACCORDANCE WITH D550 - TAKING INTO CONSIDERATION LOCATION OF OTHER SERVICES, INCLUDING POWER PILLARS
- CONTRACTOR TO CONFIRM EXISTING SEWER INVERTS AT CONNECTION POINTS PRIOR TO COMMENCEMENT. LEVELS SHOWN MAY NOT BE AS-CONSTRUCTED. NOTIFY SUPERINTENDENT WHERE DISCREPANCIES EXIST
- EXISTING SERVICES - INFORMATION ON THESE DRAWINGS PURPORTING TO RELATE TO EXISTING SERVICES IS INDICATIVE ONLY AND MAY NOT BE COMPLETE
- THE CONTRACTOR SHALL NOTE THAT NON-TRAFFICABLE SUBTERRANEAN STRUCTURES AND/OR VOIDS (SOAKWELLS, ETC) MAY EXIST ON THE SITE AND SHALL TAKE ADEQUATE MEASURES TO LOCATE THESE PRIOR TO COMMENCING WORKS AND SHALL ADOPT SAFE WORK PRACTICES THAT OBVIATE ANY RISK THAT SUCH STRUCTURES MAY PRESENT
- THE SUPERINTENDENT HAS NOT INVESTIGATED THE SITE AND MAKES NO REPRESENTATION AS TO WHAT MAY EXIST ON OR BELOW THE SITE. THE CONTRACTOR SHALL MAKE THEIR OWN INVESTIGATIONS AS TO THE NATURE OF THE SUBSURFACE CONDITIONS OF THE SITE
- ACCESS CHAMBER DEPTHS ARE SHOWN FOR WATER CORPORATION INFORMATION ONLY AND NOT TO BE USED FOR CONSTRUCTION
- ALL LEVELS SHALL BE LOCATED FROM ESTABLISHED BENCHMARKS AS SUPPLIED BY THE SURVEYOR
- CONTRACTOR SHALL PROVIDE SAFE AND DRY ACCESS FOR WATER CORPORATION

LEGEND

- PIPE DIA - CLASS GRADE LENGTH(m)
- PROPOSED SEWERS WITH NOTATION
 - UPSTREAM INVERT LEVEL
PIPE DIA / GRADE LENGTH
DOWNSTREAM INVERT LEVEL
 - ACCESS CHAMBERS AS ABOVE WITH GATIC TYPE COVER CLASS OF COVER, ACCESS CHAMBER DEPTH ACCESS CHAMBER TYPE, D = DROP
 - EXISTING ACCESS CHAMBER ACCESS CHAMBER NUMBER
 - PROPOSED GRAVITY SEWER WITH ACCESS CHAMBER AND PROPERTY CONNECTION
 - EXISTING GRAVITY SEWER
 - FUTURE GRAVITY SEWER
 - DESIGN/EXISTING CONTOURS (0.20m INTERVAL)
 - PROPOSED/ EXISTING/ FUTURE RETAINING WALL
 - RETICULATION AREA BOUNDARY
 - LOTS SERVICED IN PREVIOUS STAGE AND RELEASED IN THIS STAGE
 - LOTS SERVICED IN THIS STAGE BUT RELEASED IN FUTURE STAGE
 - EXISTING WATER MAIN

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THIS PLAN IS ACCEPTED AS BEING IN ACCORDANCE WITH THE ENDORSED CONCEPT PLAN:
0071-200-001-01A
COMPLIANCE WITH THE RELEVANT DESIGN STANDARDS AND MANUALS REMAINS THE RESPONSIBILITY OF THE DESIGN ENGINEER.
NO WORKS ARE TO COMMENCE ON SITE UNTIL START-UP MEETING REQUIREMENTS HAVE BEEN MADE WITH THE RELEVANT ASSET INSPECTOR. REFER TO THE DEVELOPERS' MANUAL FOR CONTACT DETAILS.

FOR MANAGER, DEVELOPMENT SERVICES

OR32-203-001-01B

SHIRE OF AUGUSTA MARGARET RIVER
FILE No. : 185839972

LOW RISK ISOLATION - EXCAVATION, CONSTRUCTION AND PIECE UP WORKS BY THE DEVELOPERS' CONTRACTOR. ISOLATION BY WATER CORPORATION AT THE DEVELOPERS' COST.
HIGH RISK ISOLATION - WATER CORPORATION RESERVES THE RIGHT TO COMPLETE ALL, OR A PORTION OF, THE PIECE UP WORKS AT THE DEVELOPERS' COST. ARRANGEMENTS FOR QUOTING AND PAYMENT FOR THOSE WORKS TO BE AGREED AT THE START-UP MEETING

PLAN
SCALE 1:500

MATCHLINE A-A REFER DRG C202

0 5 10 20 30m
SCALE 1:500 @ ORIGINAL SHEET SIZE 'A1'

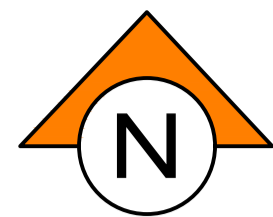
REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
3	24.06.25	LV	BWW	BJW	LOT 9 JUNCTION REINSTATED. AMENDED DEPTH OF PIT AG2484
2	12.05.25	CS	BWW	BJW	PRECAL REVISED TO REMOVE ROAD 3. SEWER ADJUSTED TO SUIT
1	05.05.25	CS	BWW	BJW	PRECAL REVISED TO REMOVE ROAD 3. SEWER ADJUSTED TO SUIT
0	20.01.25	LV	BJW	BJW	ISSUED FOR CONSTRUCTION
C	11.12.24	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
B	06.12.24	BWW	BWW	BJW	REVISED INITIAL SUBMISSION FOR APPROVAL
A	04.12.24	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL
REV	DATE	DRAWN	CHECKED	APPROVED	

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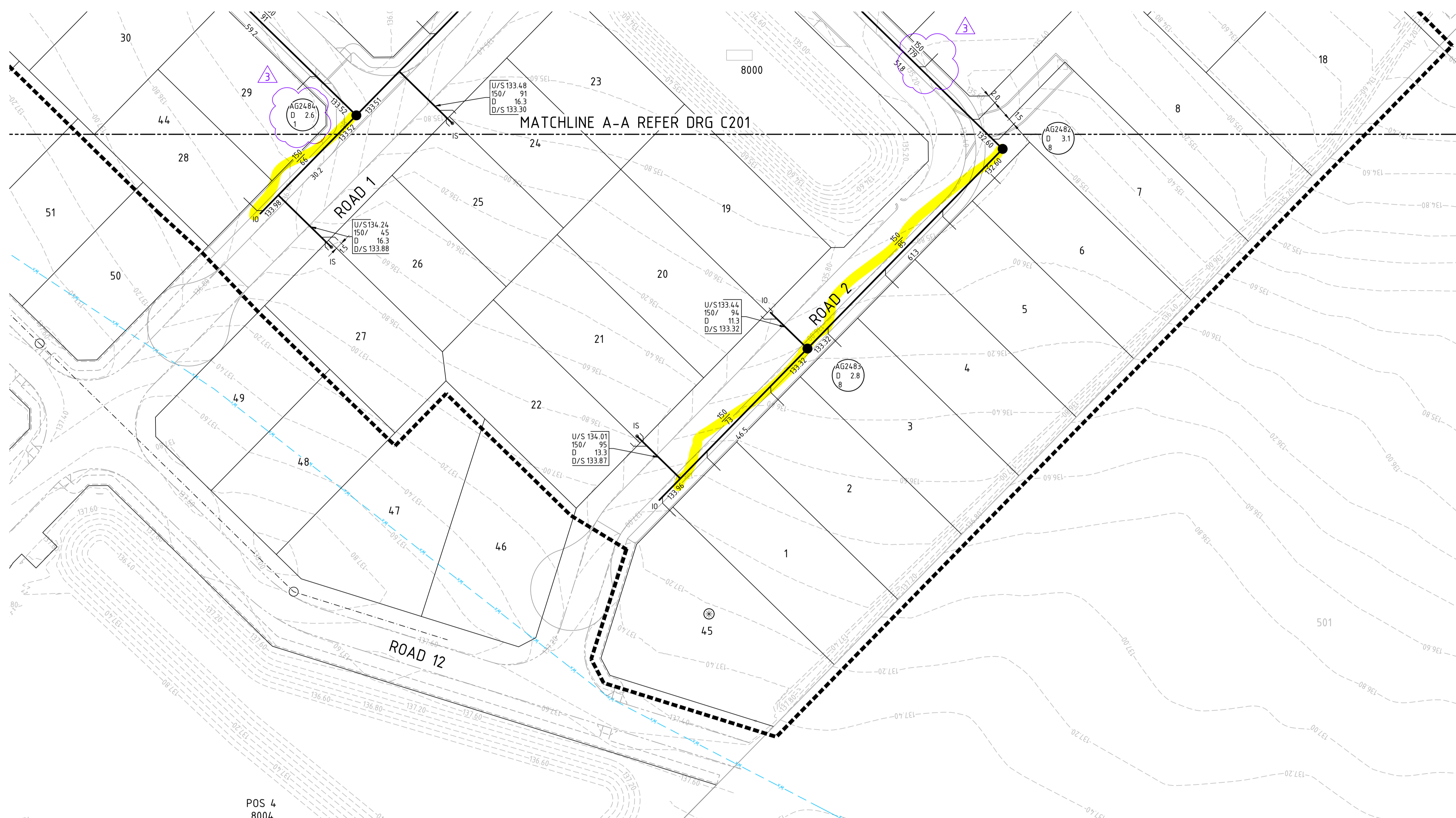
CLIENT:
PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A
DRAWING TITLE:
SEWER RETICULATION PLAN
SHEET 1

DRAWN LVU	WAPC No. 200656
DESIGNED B.WHITFIELD	SCALE 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01A	CO-ORDS MRC694
DRAWING No. C201	REVISION 3



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS
2. REFER TO DRAWING JDS242318.01_C201 FOR NOTES AND LEGEND



MATCHLINE A-A REFER DRG C201

POS 4
8004

PLAN
SCALE 1:500

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HIGH RISK ISOLATION - WATER CORPORATION RESERVES THE RIGHT TO COMPLETE ALL, OR A PORTION OF, THE PIECE UP WORKS AT THE DEVELOPERS COST. ARRANGEMENTS FOR QUOTING AND PAYMENT FOR THOSE WORKS TO BE AGREED AT THE START-UP MEETING

THIS PLAN IS ACCEPTED AS BEING IN ACCORDANCE WITH THE ENDORSED CONCEPT PLAN:
0071-200-001-01A

COMPLIANCE WITH THE RELEVANT DESIGN STANDARDS AND MANUALS REMAINS THE RESPONSIBILITY OF THE DESIGN ENGINEER.

NO WORKS ARE TO COMMENCE ON SITE UNTIL START-UP MEETING REQUIREMENTS HAVE BEEN MADE WITH THE RELEVANT ASSET INSPECTOR. REFER TO THE DEVELOPERS' MANUAL FOR CONTACT DETAILS.

FOR MANAGER, DEVELOPMENT SERVICES

OR32-203-002-01B

SHIRE OF AUGUSTA MARGARET RIVER
FILE No. : 185839972

0 5 10 20 30m
SCALE 1:500 @ ORIGINAL SHEET SIZE A1

3	24.06.25	LV	BWW	BJW	LOT 9 JUNCTION REINSTATED. AMENDED DEPTH OF PIT AG2484
2	12.05.25	CS	BWW	BJW	PRECAL REVISED TO REMOVE ROAD 3. SEWER ADJUSTED TO SUIT
1	05.05.25	CS	BWW	BJW	PRECAL REVISED TO REMOVE ROAD 3. SEWER ADJUSTED TO SUIT
0	20.01.25	LV	BJW	BJW	ISSUED FOR CONSTRUCTION
C	11.12.24	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
B	06.12.24	BWW	BWW	BJW	REVISED INITIAL SUBMISSION FOR APPROVAL
A	04.12.24	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL
REV	DATE	DRAWN	CHECKED	APPROVED	

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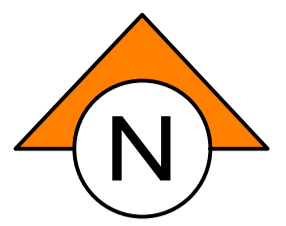


CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
SEWER RETICULATION PLAN
SHEET 2

DRAWN L.VU	WAPC No. 200656
DESIGNED B.WHITFIELD	SCALE A1 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C202	REVISION 3



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS
2. SETOUT OF ROAD CENTERLINE, FACE OF KERB AND EDGE OF SEAL FOR UN-KERBED ROADS SHALL BE BASED ON SUPPLIED AUTOCAD XBASE_JDS242318.01 DATA. ALL OTHER WORKS SHALL BE SETOUT BASED ON INFORMATION CONTAINED ON THE CONTRACT DRAWINGS AND SPECIFICATION
3. ALL CONSTRUCTION DETAILS TO BE TO LOCAL AUTHORITY SPECIFICATION AND SATISFACTION
4. ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE
5. ALL ROADS TO BE BLACK ASPHALT UNLESS SHOWN OTHERWISE
6. ALL LEVELS SHALL BE DETERMINED FROM BENCHMARKS ESTABLISHED BY THE PROJECT SURVEYOR
7. ALL TRANSITIONS TO EXISTING WORK SHALL BE SMOOTH AND OF NEAT APPEARANCE
8. THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT IN A STRAIGHT LINE AND MAKE SMOOTH CONNECTION PRIOR TO CONSTRUCTION COMMENCING
9. THE CONTRACTOR SHALL REPORT ANY DISCREPANCY OR CLASH WITH OTHER SERVICES TO THE SUPERINTENDENT
10. FOR LOCATION OF UNDERGROUND SERVICES REFER TO RELEVANT SERVICES PLAN
11. ALL IRRIGATION SLEEVES SHALL EXTEND 0.5m PAST KERBS PATHS ETC.
12. ALL IRRIGATION SLEEVES SHALL BE LAID WITH 600mm COVER MINIMUM.

LEGEND

- LIMIT OF WORKS
- PROPOSED LOT NUMBER
- PROPOSED MOUNTABLE KERB
- PROPOSED SEMI MOUNTABLE KERB
- PROPOSED BARRIER KERB
- PROPOSED REINFORCED FLUSH EDGE BEAM
- EXISTING KERB
- FUTURE PATH/ROAD
- PROPOSED/EXISTING DRAINAGE PIT
- PROPOSED/EXISTING HEADWALL
- PROPOSED/EXISTING SEWER MANHOLE
- EXISTING PAVEMENT
- PROPOSED RED ASPHALT
- PROPOSED FOOTPATH 2.0m
- MAKE SMOOTH TRANSITION TO EXISTING PAVEMENT
- PROPOSED PRAM RAMP AND TACTILE MARKERS IN ACCORDANCE WITH COUNCIL SPECIFICATIONS
- CHEVRON BOARD D4-5
- PROPOSED STREET SIGN
- PROPOSED STREET LIGHT
- PROPOSED STREET LIGHT WITH 2 ROAD NAME SIGNS
- EXISTING STREET LIGHT
- ROAD CENTRELINE CHAINAGE
- ROAD CENTRELINE TANGENT POINT
- ROAD NAME
- PROPOSED KERB OPENING - REFER TO DRAWING C911 FOR DETAILS
- PROPOSED BASIN
- PROPOSED IRRIGATION SLEEVE UNDER ROAD DN200 UPVC CLASS 9
- PROPOSED BIN PAD (REFER C302 FOR DETAIL)
- PROPOSED/EXISTING RETAINING WALL
- EXISTING KERB TO BE REMOVED



0 5 10 20 30m
SCALE 1:500 @ ORIGINAL SHEET SIZE A1

MATCHLINE A-A REFER DRG C301
PLAN
SCALE 1:500

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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
1	07.10.25	LV	BJW	BJW	AMENDED PAVING TO RED ASPHALT AT BATTLE-AXE 01
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

Plotted By: Hoang Trung Plot Date: 07/10/25 - 17:26 Cad File: C:\2ds\data\JDSI-12DSYN\JDS242318_247\JDS242318.01\CIVIL\Drawings\JDS242318.01_C300-C302.dwg

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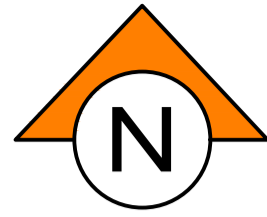
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

CLIENT:
Birdwood

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

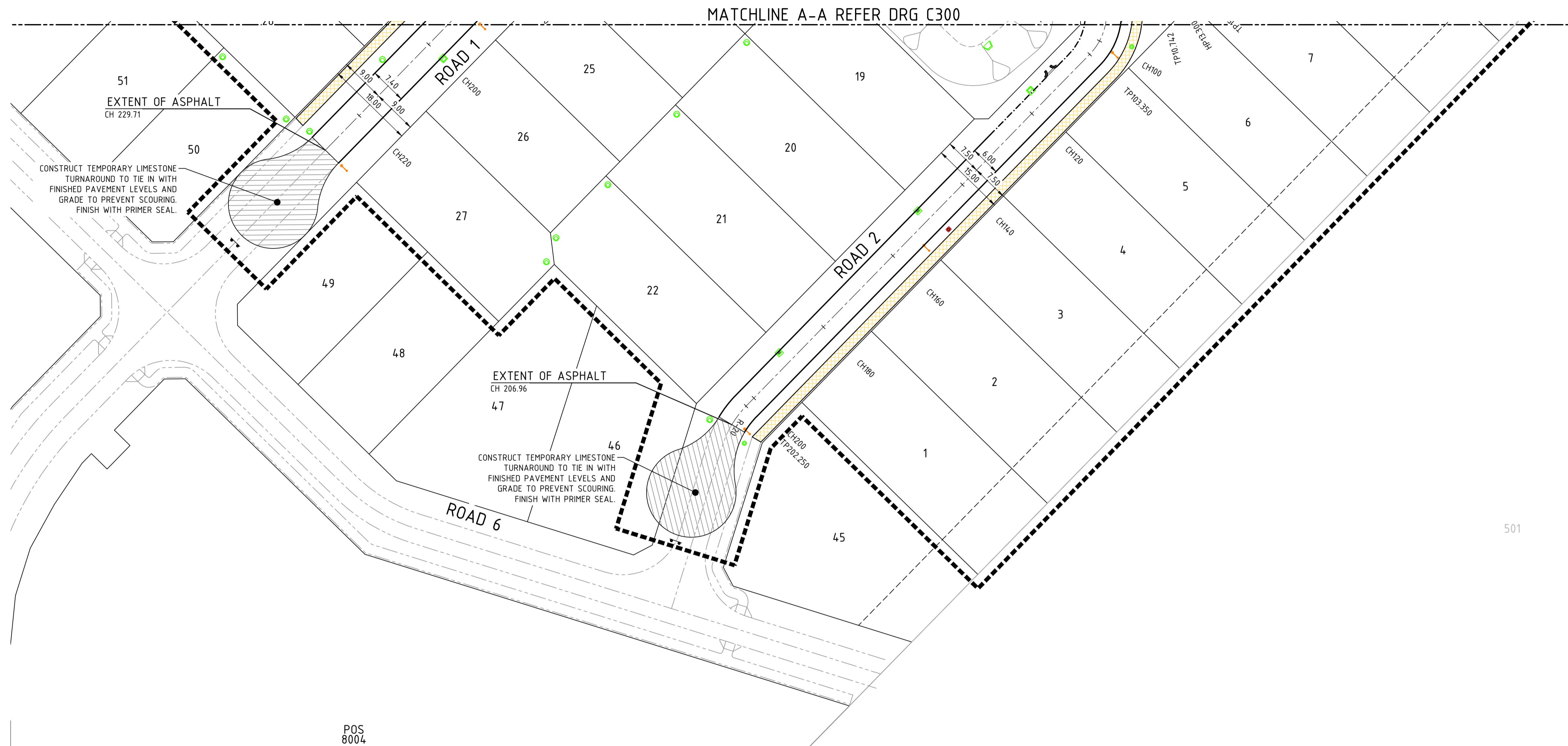
DRAWING TITLE:
ROADS AND TREATMENT PLAN
SHEET 1

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C300	REVISION 1



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS
2. REFER TO DRAWING JDS242318.01A_C300 FOR NOTES AND LEGEND



PLAN
SCALE 1:500

0 5 10 20 30m
SCALE 1:500 @ ORIGINAL SHEET SIZE A1

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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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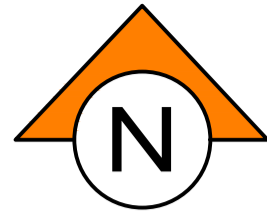
NOTE
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Certified Quality System to ISO 9001

CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
ROADS AND TREATMENT PLAN
SHEET 2

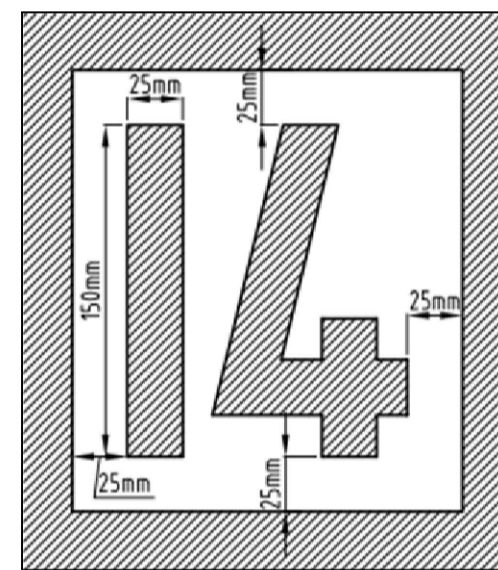
DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C301	REVISION 0



NOTES

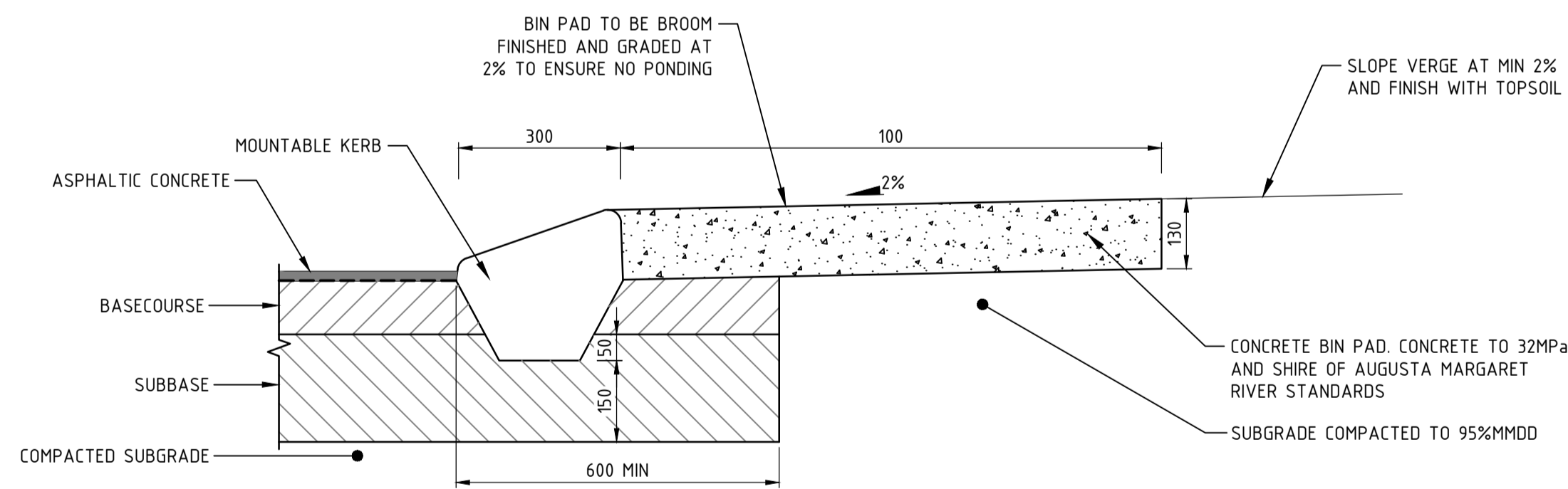
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS
2. REFER TO DRAWING JDS242318.01A_C300 FOR NOTES AND LEGEND

PROVISION FOR 2 BINS (1 PAD) PER HOUSE.
PAD DIMENSIONS 2.0L X 1.0D.
HOUSE NUMBERS TO BE CONFIRMED BY SHIRE.

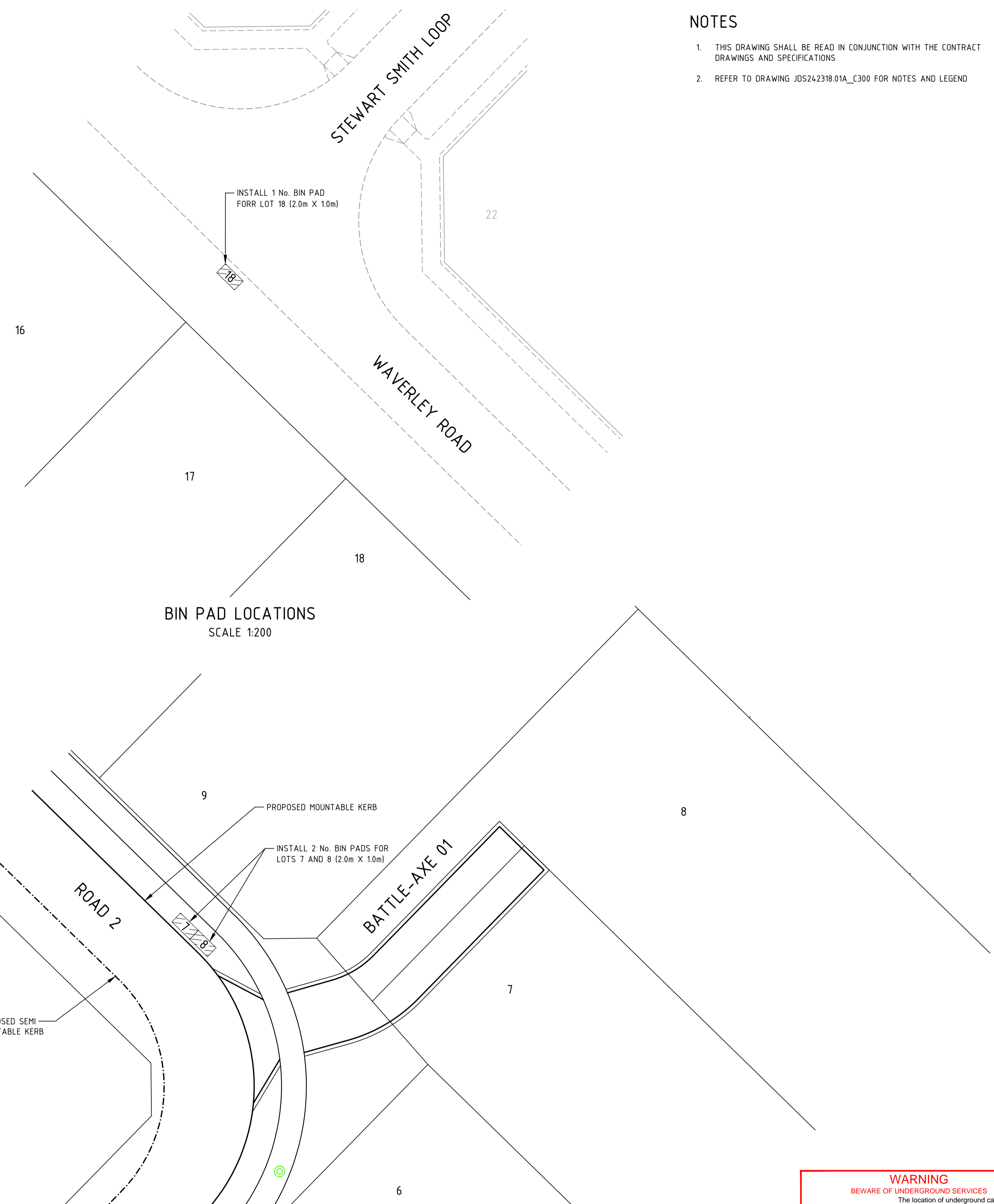


BIN PAD NUMBERING (BLACK) AND BACKING PAINT (WHITE) TO BE PLACED CENTRALLY ON EACH PAD WITH PAINT SUITABLE FOR EXTERNAL CONCRETE APPLICATIONS. NUMBERING ORIENTATION TO SUIT READING FROM ROAD.

TYPICAL BIN PAD NUMBERING DETAIL
NOT TO SCALE



TYPICAL BIN PAD
NOT TO SCALE



BIN PAD LOCATIONS
SCALE 1:200

BIN PAD LOCATIONS
SCALE 1:200



WARNING
BEWARE OF UNDERGROUND SERVICES

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BEFORE YOU DIG
www.byda.com.au

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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Certified Quality System to ISO 9001

JDSi
CONSULTING ENGINEERS

Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

CLIENT:
Birdwood

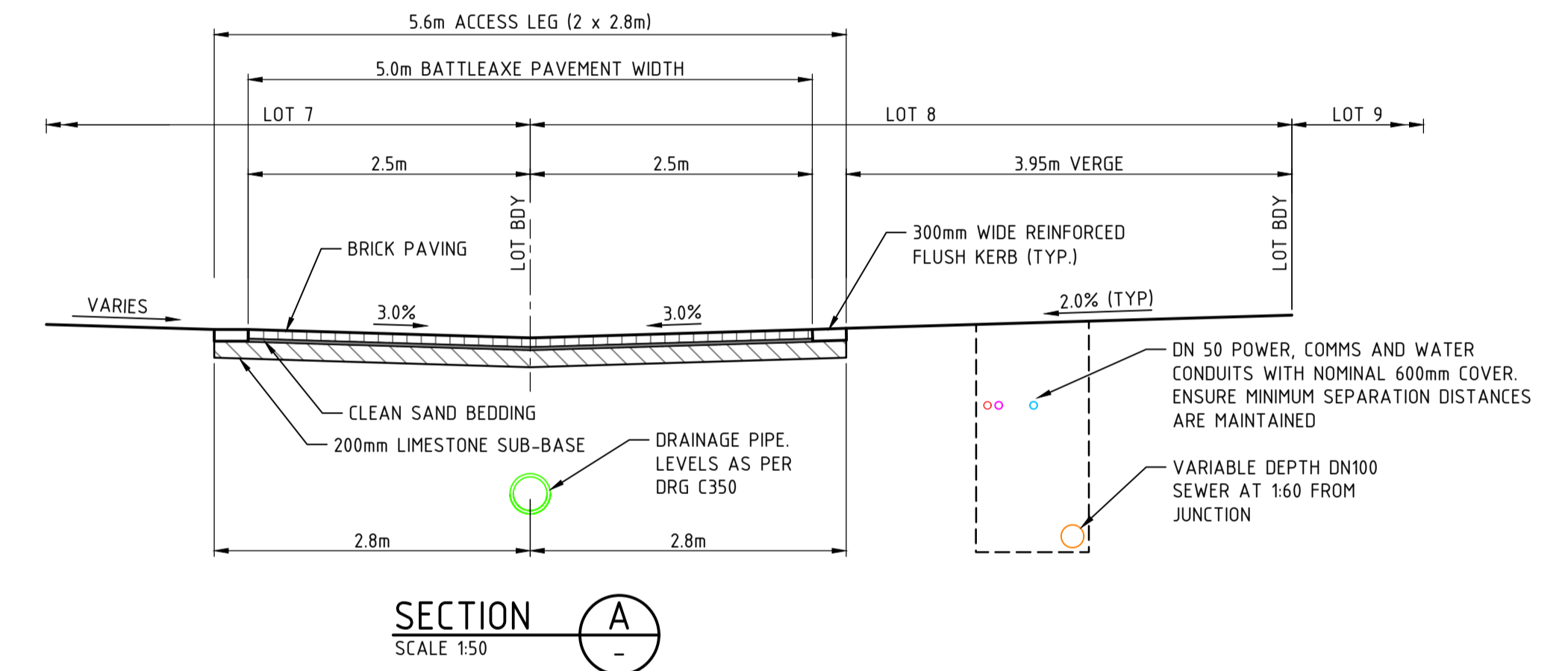
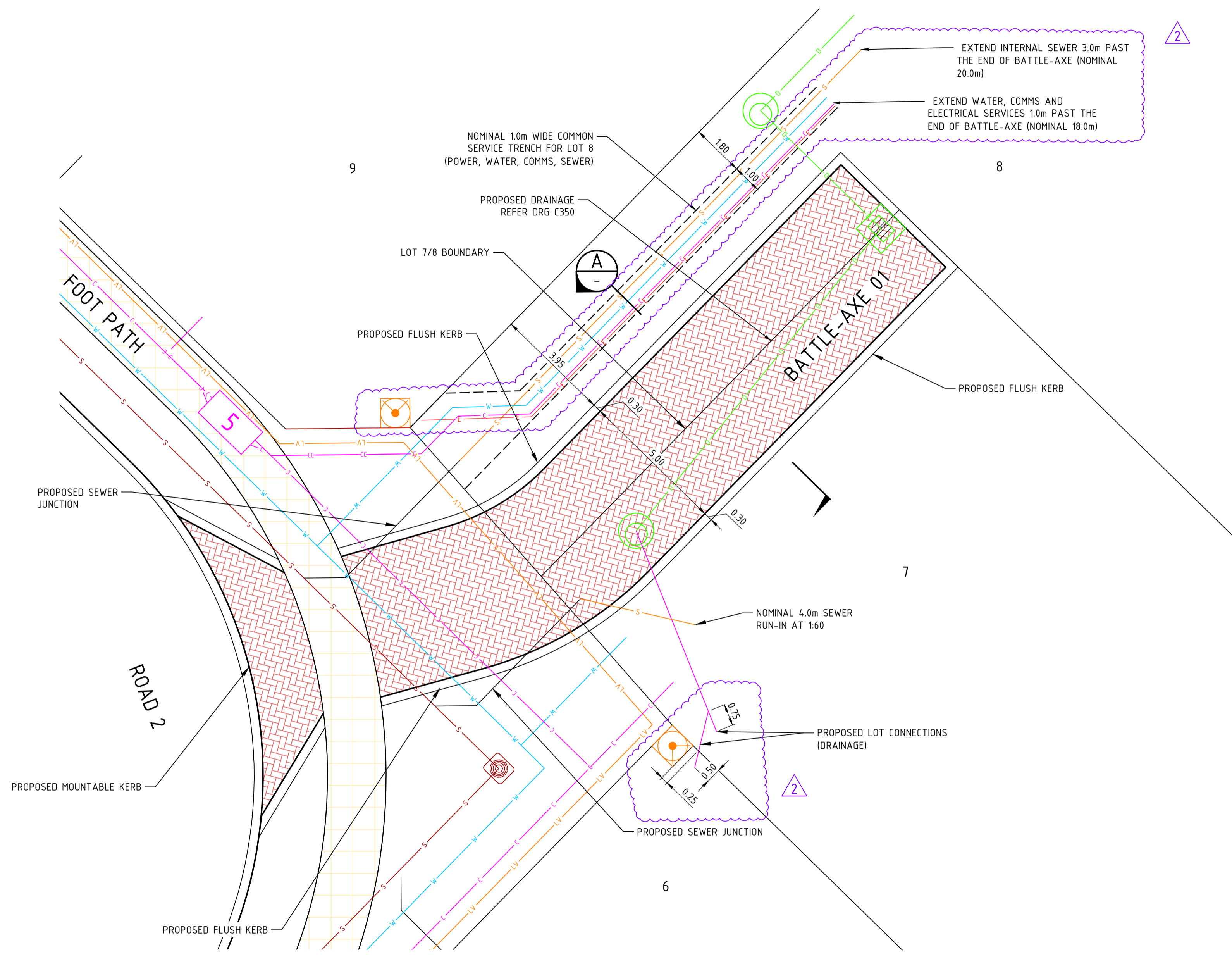
PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
BIN PAD PLAN AND DETAILS

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE A1 1:200
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C302	REVISION 0

NOTES

1. FOR LEGEND REFER TO DRAWING JDS242318.01A_C300



BATTLE-AXE LOTS 7 & 8
SCALE 1:100

0 1 2 4 6m
SCALE 1:100 @ ORIGINAL SHEET SIZE A1

0 0.5 1 2 3m
SCALE 1:50 @ ORIGINAL SHEET SIZE A1

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BEFORE YOU DIG
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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
2	19.08.25	LV	BWW	BJW	POWER SEWER AND DRAINAGE SERVICES AMENDED
1	24.06.25	LV	BWW	BJW	JUNCTION PIT ON BATTLE-AXE RELOCATED
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
A	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL

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JDSi
CONSULTING ENGINEERS

Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

CLIENT:
Birdwood

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
BATTLE-AXE LOT SERVICING
TYPICAL ALIGNMENT AND DETAILS

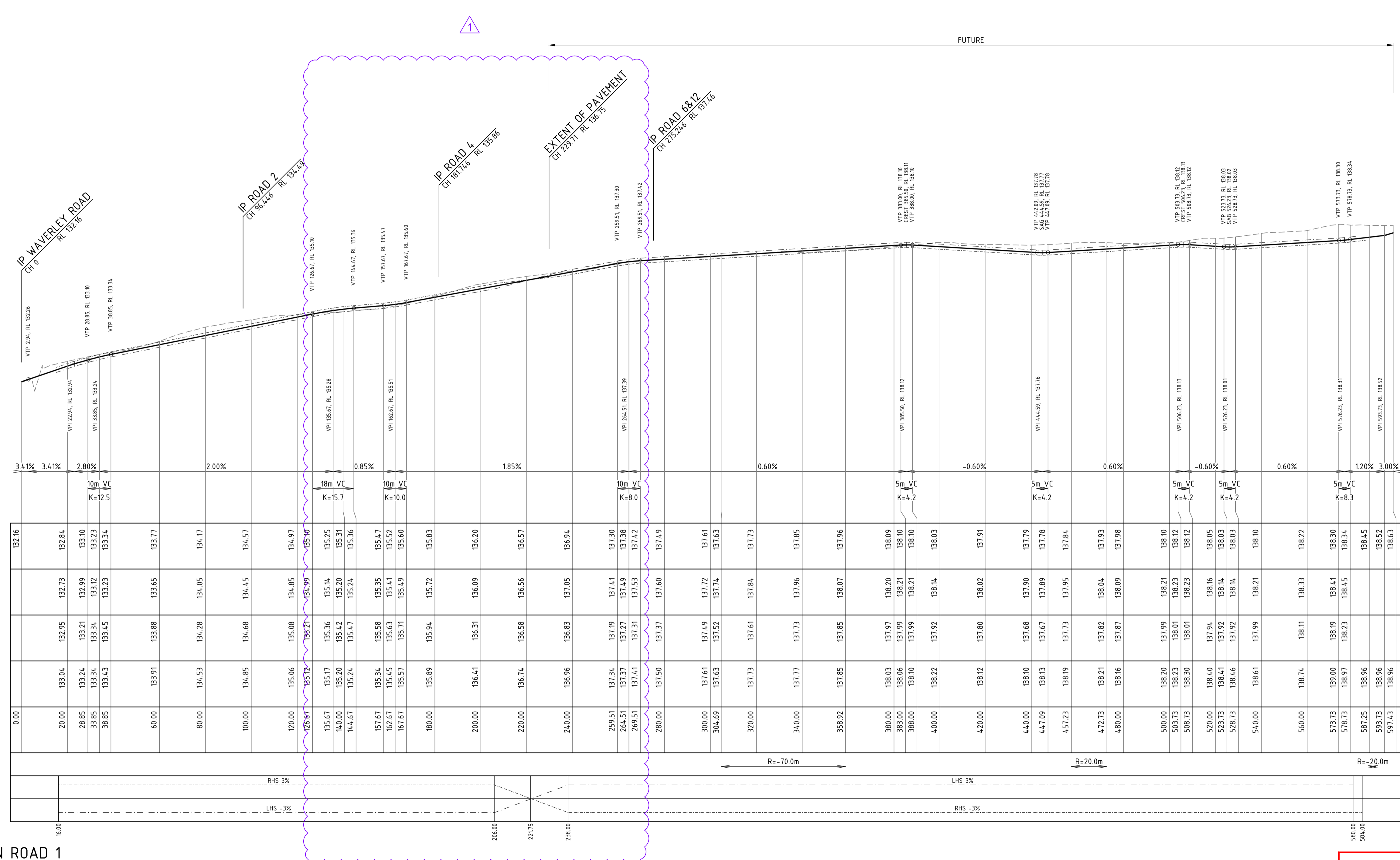
DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE @ A1 AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C303	REVISION 2

NOTES

1. DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

LEGEND

— DESIGN SURFACE
 - - - EXISTING SURFACE

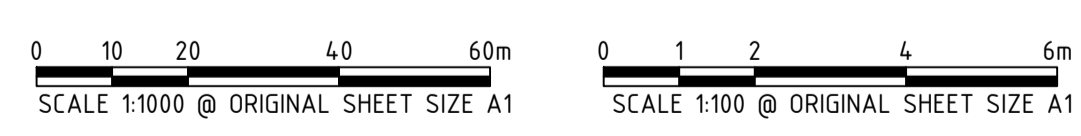


GRADE (%)
 VC LENGTH / K VALUE

DATUM RL 126.0

CENTRE LINE DESIGN LEVEL
132.16
132.84
133.10
133.23
133.34
133.77
134.17
134.57
134.97
135.10
135.25
135.31
135.36
135.47
135.58
135.63
135.67
135.71
135.72
136.20
136.57
136.94
137.30
137.38
137.42
137.49
137.61
137.63
137.73
137.85
137.96
138.09
138.10
138.10
138.03
137.91
137.79
137.78
137.84
138.10
138.12
138.12
138.05
138.03
138.03
138.10
138.22
138.30
138.34
138.45
138.63

LONGITUDINAL SECTION ROAD 1
 SCALE HORIZ 1 : 1000
 VERT 1 : 100



WARNING
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BEFORE YOU DIG
 www.bysta.com.au

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
1	24.06.25	LV	BWW	BJW	AMENDED FOR RAISED ROAD 1 & ROAD 4
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	CS	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL
REV	DATE	DRAWN	CHECKED	APPROVED	

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JDSi
 CONSULTING ENGINEERS

Birdwood
 COWARAMUP - MASTERPLANNED COMMUNITY

CLIENT:
 PROJECT:
 LOT 500 WIRING ROAD
 COWARAMUP STAGE 01A
 DRAWING TITLE:
 ROAD LONGITUDINAL SECTIONS
 SHEET 1

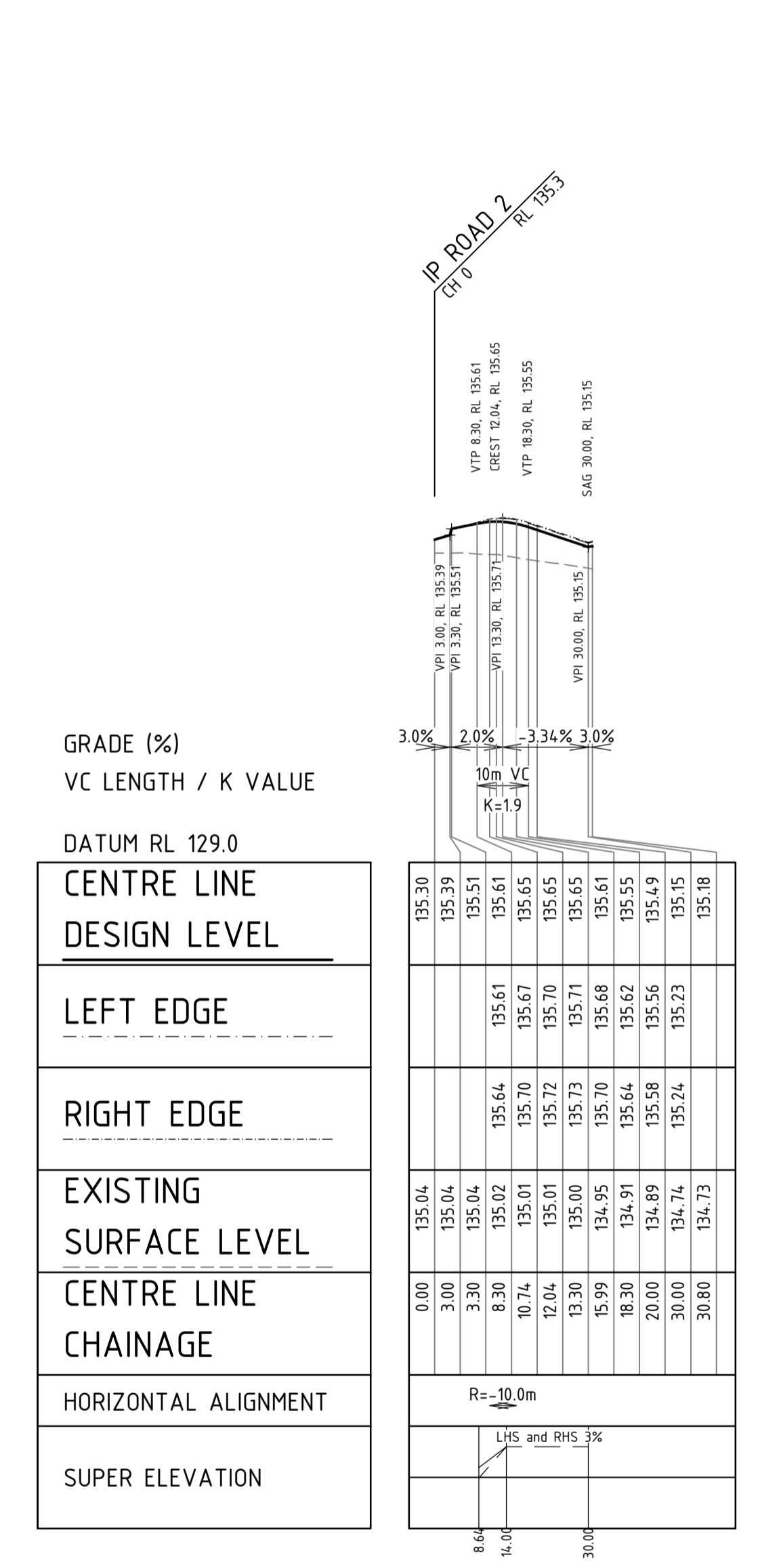
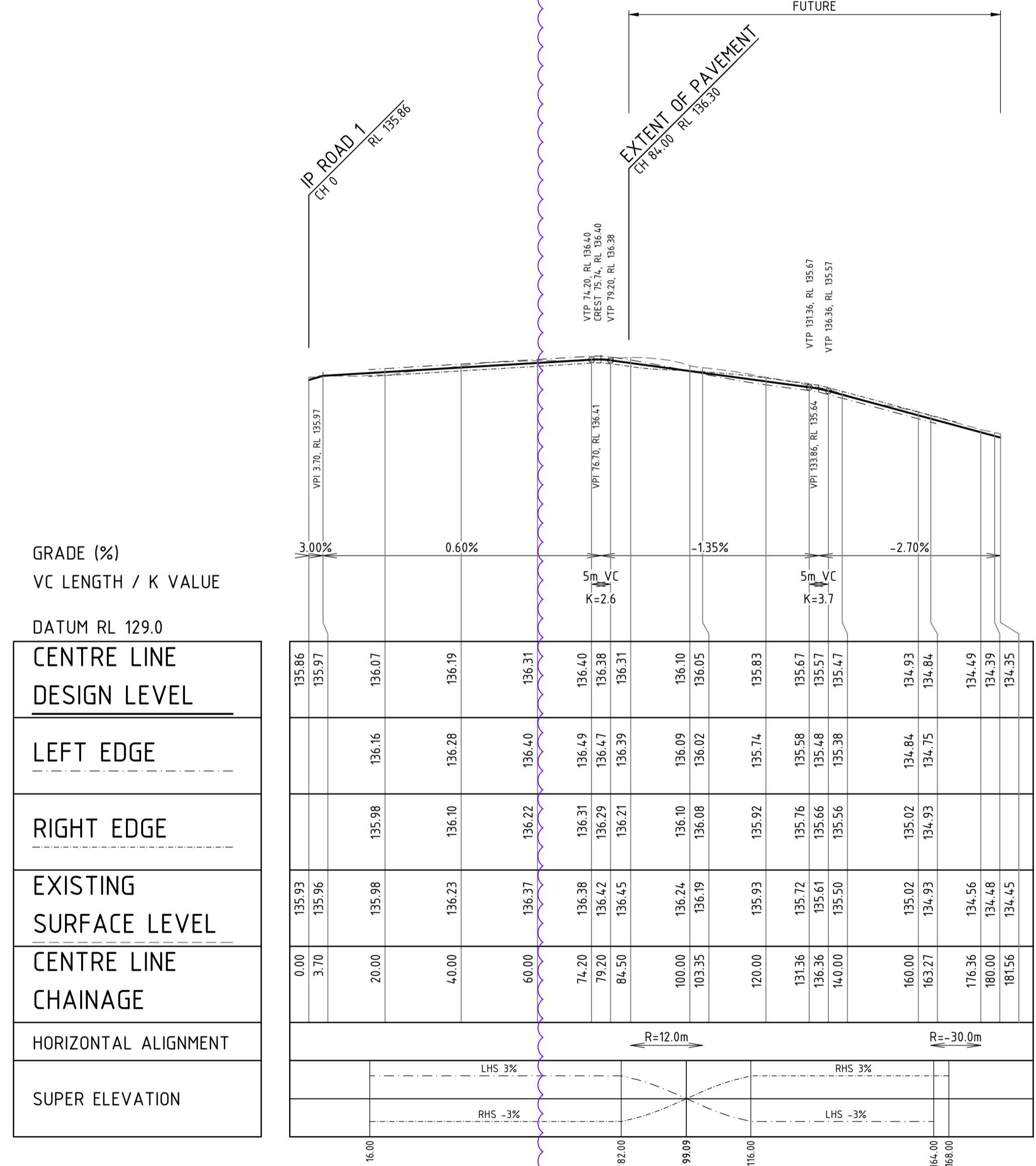
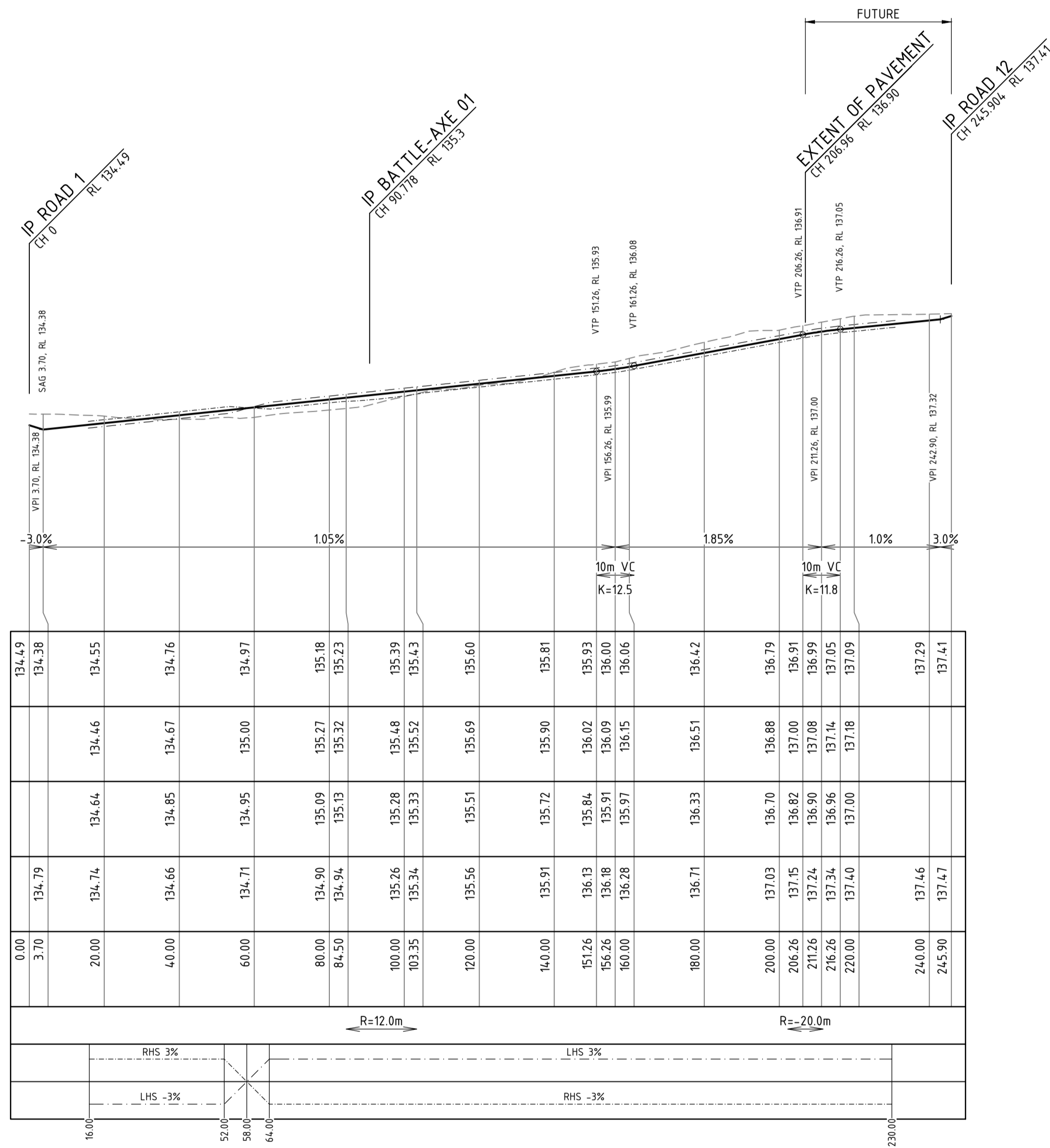
DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE @ A1 AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01A	CO-ORDS MRC694
DRAWING No. C320	REVISION 1

NOTES

- DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

LEGEND

- DESIGN SURFACE
- - - - - EXISTING SURFACE



LONGITUDINAL SECTION ROAD 2
SCALE HORIZ 1 : 1000
VERT 1 : 100

LONGITUDINAL SECTION ROAD 4
SCALE HORIZ 1 : 1000
VERT 1 : 100

LONGITUDINAL SECTION BATTLE-AXE 01
SCALE HORIZ 1 : 1000
VERT 1 : 100



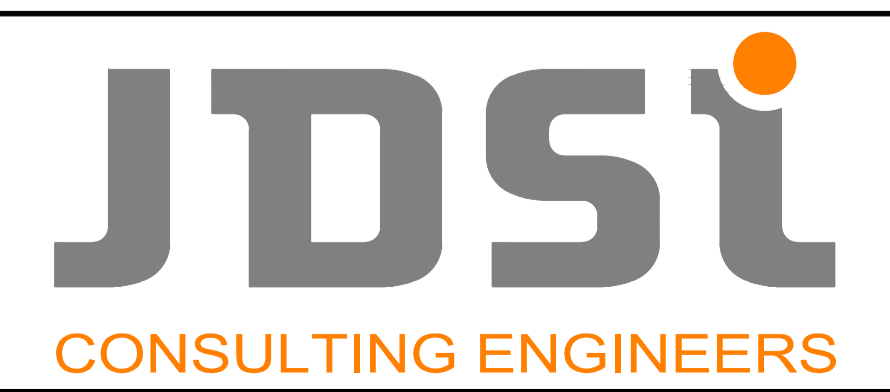
WARNING
BEWARE OF UNDERGROUND SERVICES

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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
2	24.07.25	LV	BWW	BWW	ROAD 4 AMENDED
1	24.06.25	LV	BWW	BWW	AMENDED FOR RAISED ROAD 1 & ROAD 4
0	16.05.25	LV	BWW	BWW	ISSUED FOR CONSTRUCTION
B	05.05.25	CS	BWW	BWW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BWW	BWW	INITIAL SUBMISSION FOR APPROVAL

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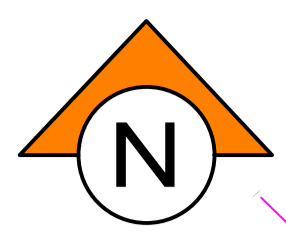
NOTE
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Certified Quality System to ISO 9001



CLIENT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

PROJECT:
ROAD LONGITUDINAL SECTIONS
SHEET 2

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE @ A1 AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS24-2318.01A	CO-ORDS MRC094
DRAWING No. C321	REVISION 2

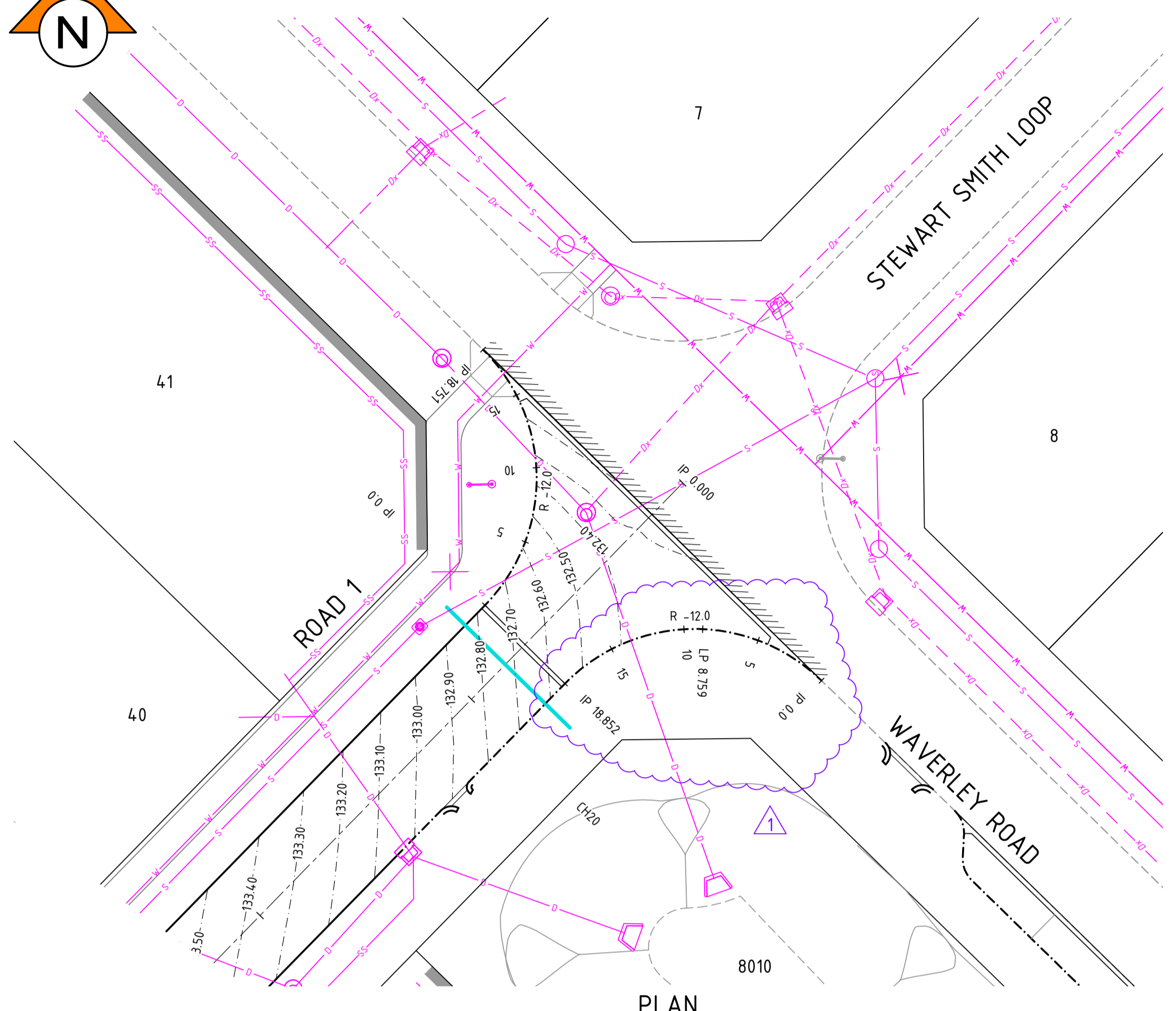


NOTES

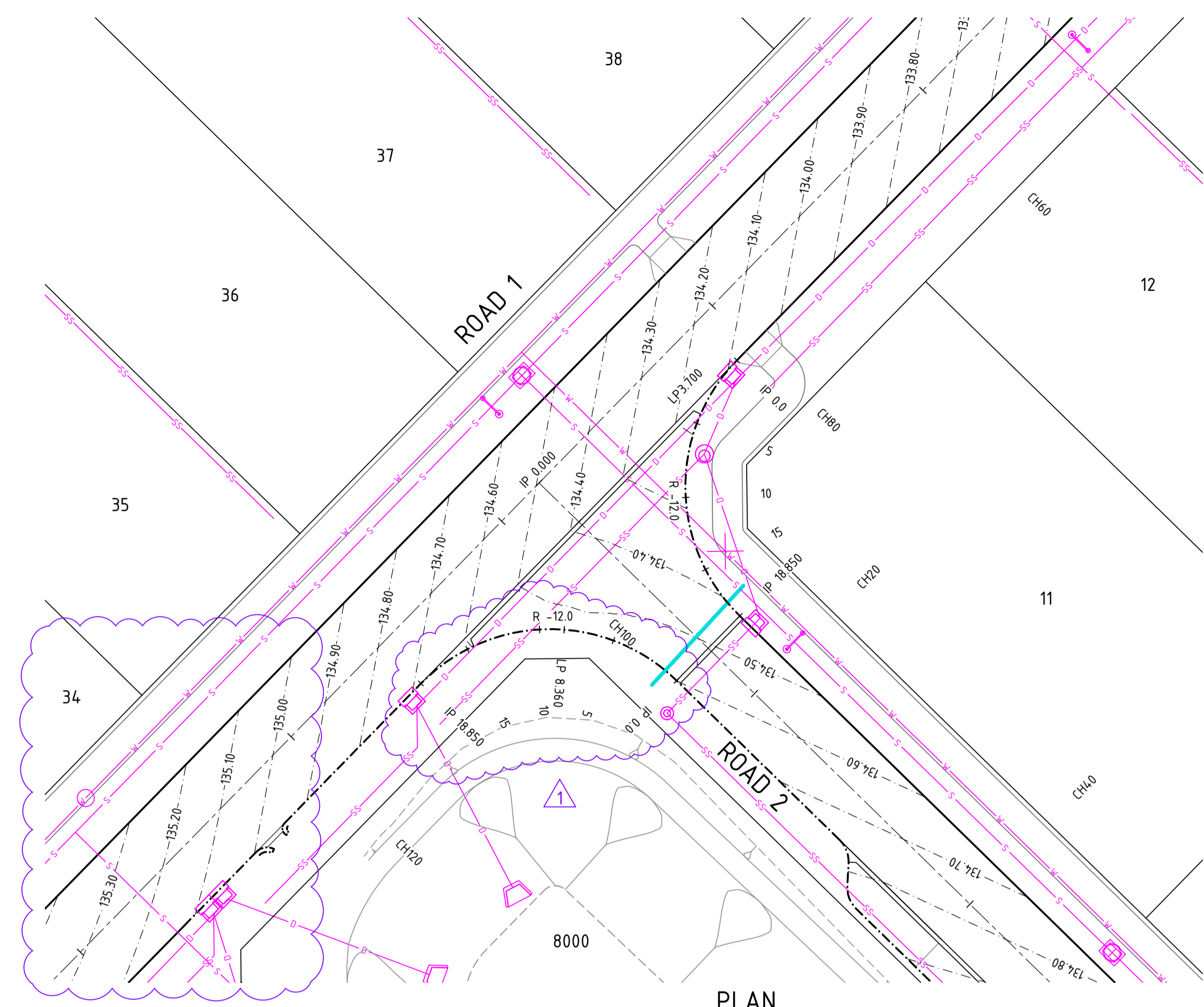
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION
2. SETOUT OF ROAD CENTERLINE, FACE OF KERB AND EDGE OF SEAL FOR UN-KERBED ROADS SHALL BE BASED ON SUPPLIED AUTOCAD DATA. ALL OTHER WORKS SHALL BE SETOUT BASED ON INFORMATION CONTAINED ON THE CONTRACT DRAWINGS AND SPECIFICATION
3. ALL CONSTRUCTION DETAILS TO BE TO LOCAL AUTHORITY SPECIFICATION AND SATISFACTION
4. ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE
5. ALL LEVELS SHALL BE DETERMINED FROM BENCHMARKS ESTABLISHED BY THE PROJECT SURVEYOR
6. ALL TRANSITIONS TO EXISTING WORK SHALL BE SMOOTH AND OF NEAT APPEARANCE
7. ALL TRENCHING, PIPE BEDDING AND BACKFILLING SHALL BE IN ACCORDANCE WITH AS3725
8. THE CONTRACTOR SHALL REPORT ANY DISCREPANCY OR CLASH WITH OTHER SERVICES TO THE SUPERINTENDENT
9. THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT IN A STRAIGHT LINE AND MAKE SMOOTH CONNECTION

LEGEND

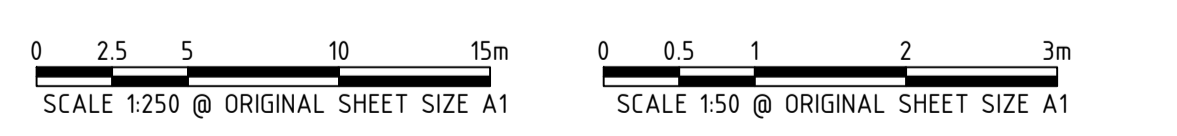
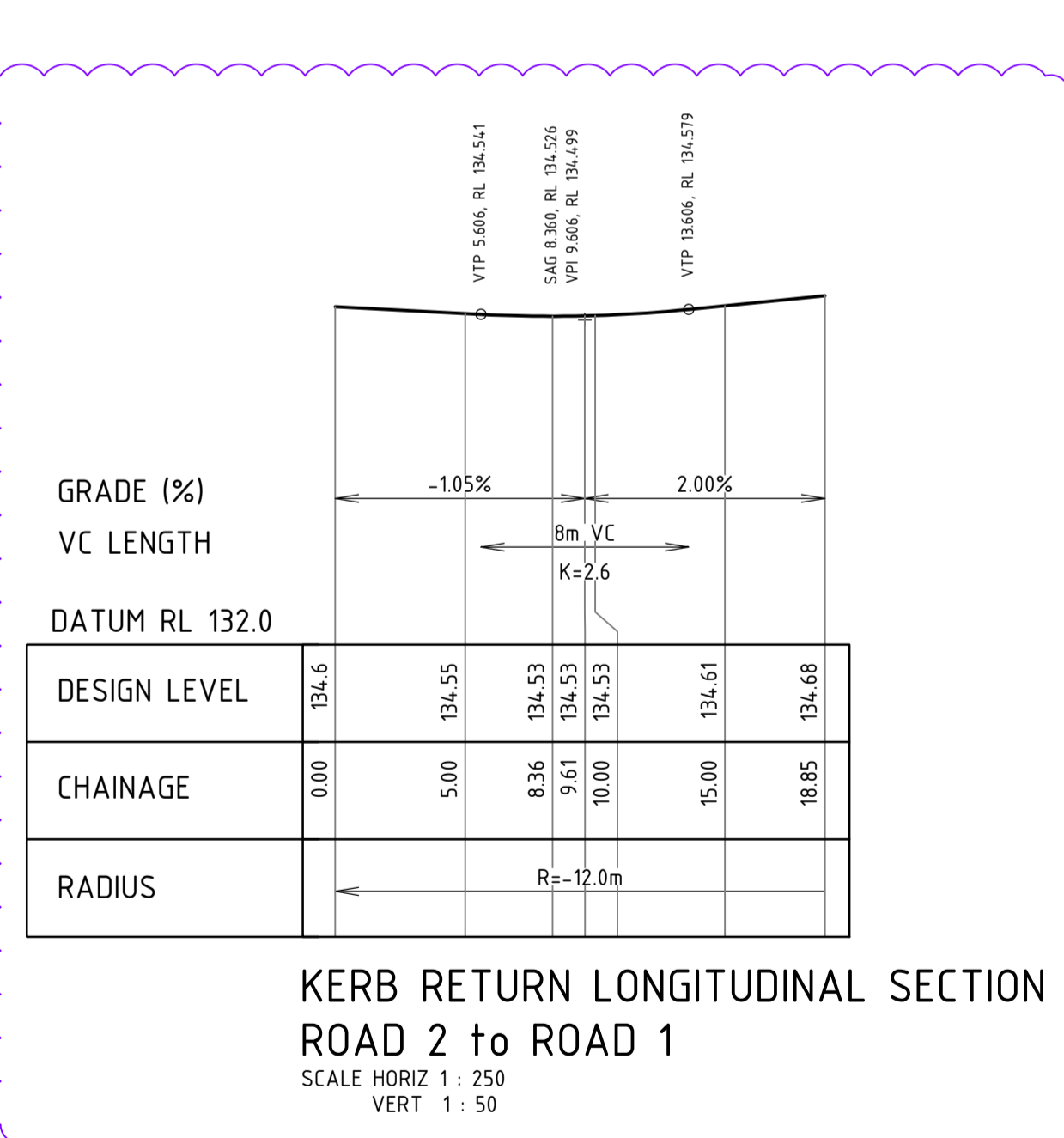
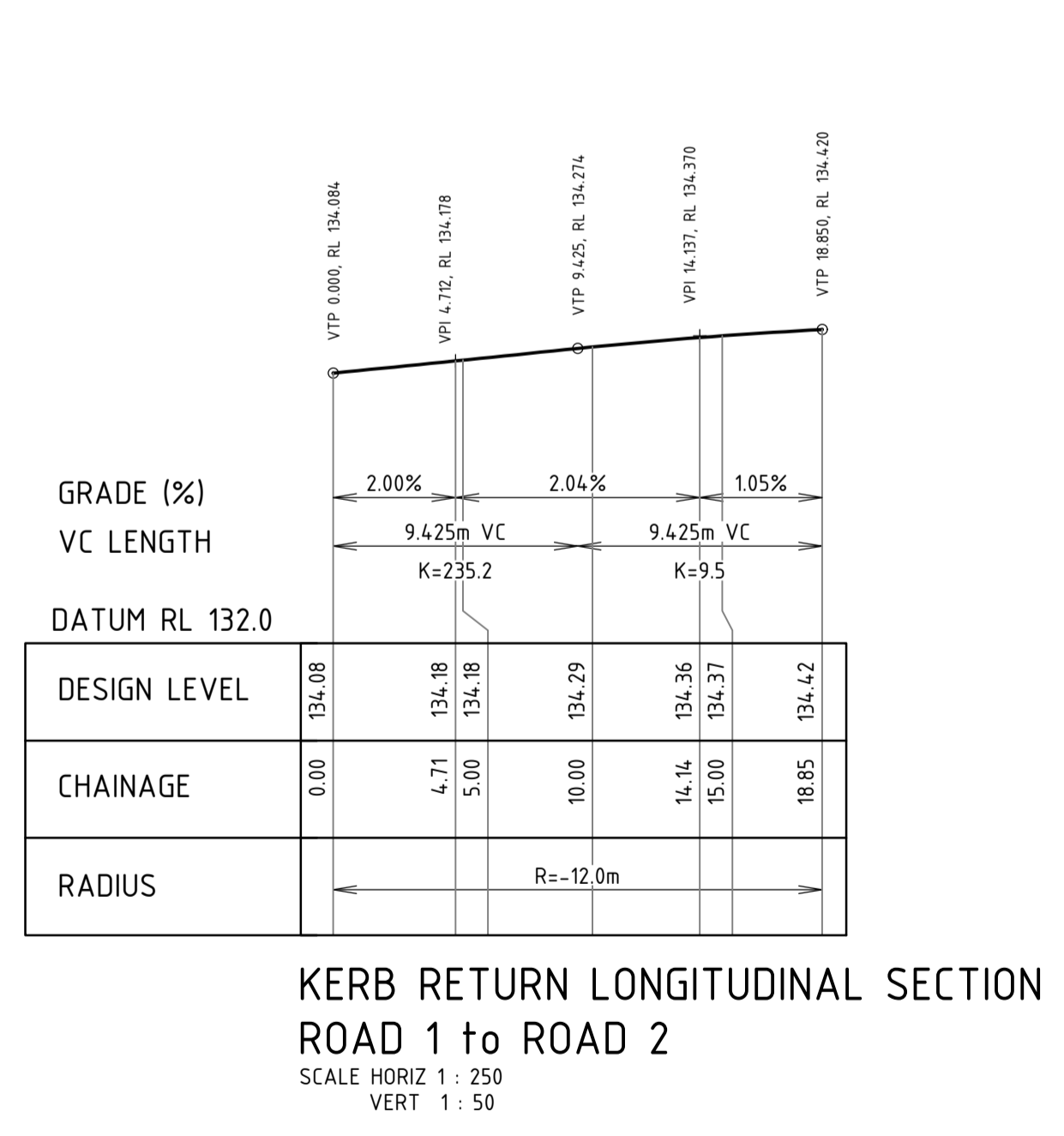
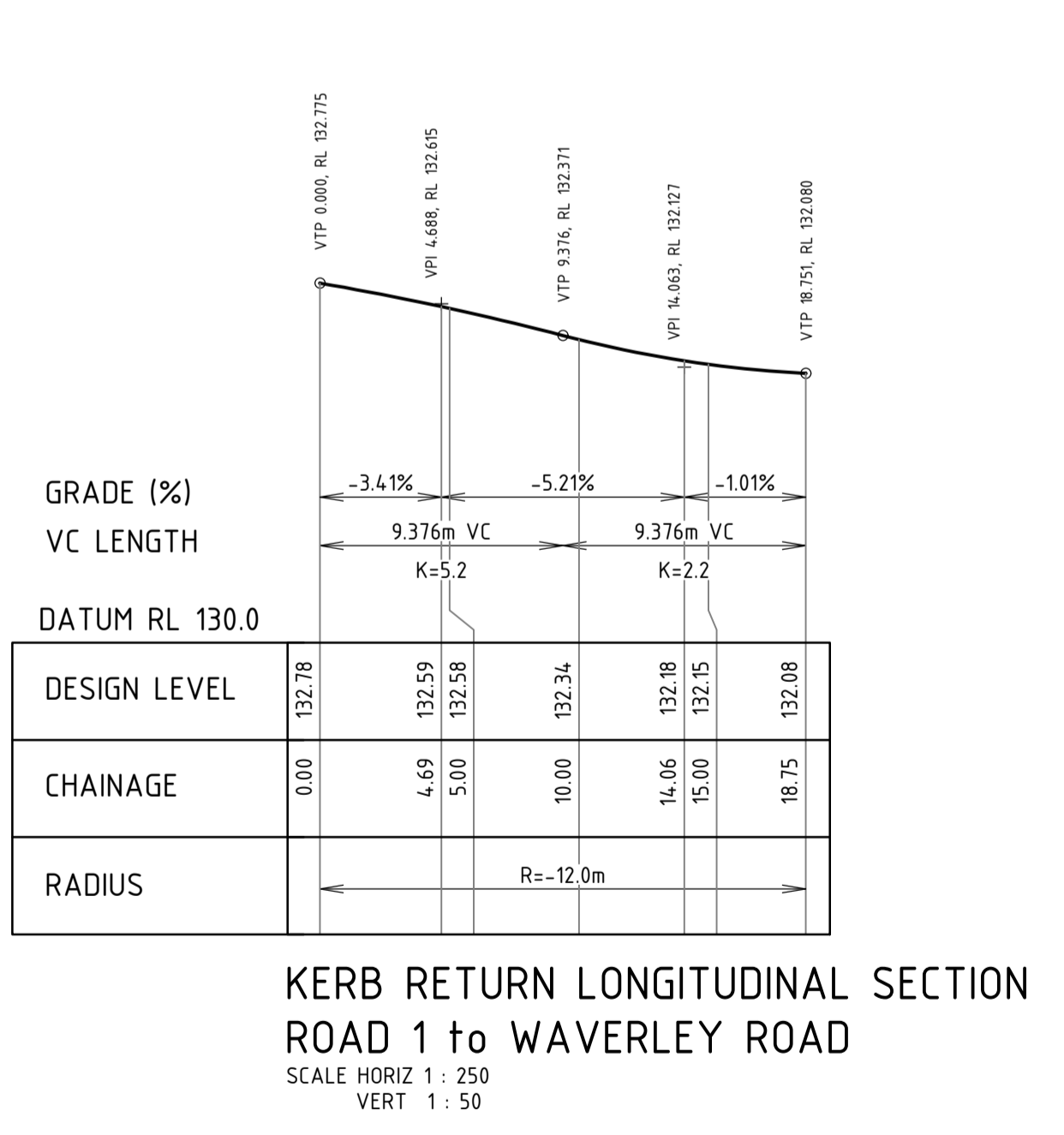
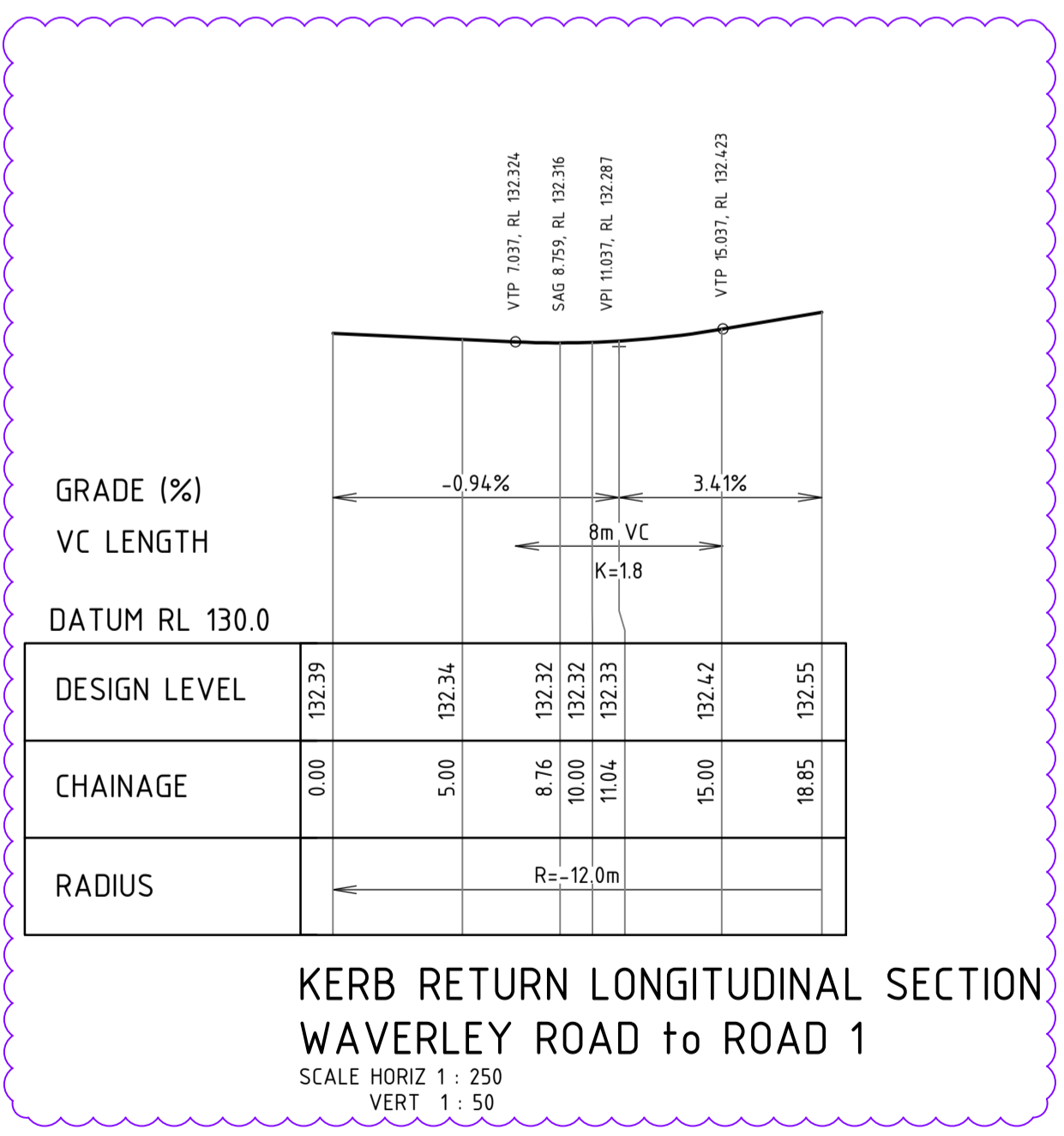
- 2 PROPOSED LOT NUMBER
- PROPOSED MOUNTABLE KERB
- - - PROPOSED SEMI MOUNTABLE KERB
- - - PROPOSED BARRIER KERB
- PROPOSED REINFORCED FLUSH EDGE BEAM
- PROPOSED RETAINING WALL
- - - EXISTING KERB
- FUTURE WORKS
- PROPOSED DRAINAGE & SEP
- PROPOSED DRAINAGE & CSEP
- PROPOSED DRAINAGE & JP
- PROPOSED DRAINAGE & GP OR CGP
- EXISTING DRAINAGE & PITS
- FUTURE DRAINAGE & PITS
- FUTURE SEWER
- FUTURE WATER
- PROPOSED/EXISTING SEWER
- PROPOSED/EXISTING SUBSOIL DRAINAGE
- PROPOSED/EXISTING GAS
- PROPOSED/EXISTING WATER
- DESIGN CONTOURS (0.1m INTERVAL)
- KERB RETURN CHAINAGE
- PROPOSED PRAM RAMP IN ACCORDANCE WITH COUNCIL SPECIFICATIONS TGS1 TO BE INSTALLED WHERE INDICATED
- PROPOSED STREET SIGN
- PROPOSED STREET LIGHT
- PROPOSED STREET LIGHT WITH 2 ROAD NAME SIGNS
- EXISTING STREET LIGHT
- ROAD NAME
- MAKE SMOOTH TRANSITION TO EXISTING PAVEMENT
- PROPOSED IRRIGATION SLEEVE UNDER ROAD DN200 UPVC
- PROPOSED BATTER



PLAN
SCALE 1:250



PLAN
SCALE 1:250



WARNING
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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
1	24.06.25	LV	BWW	BJW	AMENDED FOR RAISED ROAD 1 & ROAD 4 AND LENGTH OF VC'S
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	CS	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL

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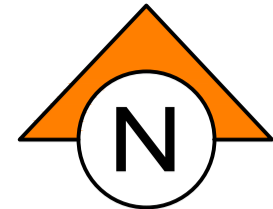
NOTE
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Certified Quality System to ISO 9001

CLIENT:
Birdwood
COWARAMUP • MASTERPLANNED COMMUNITY

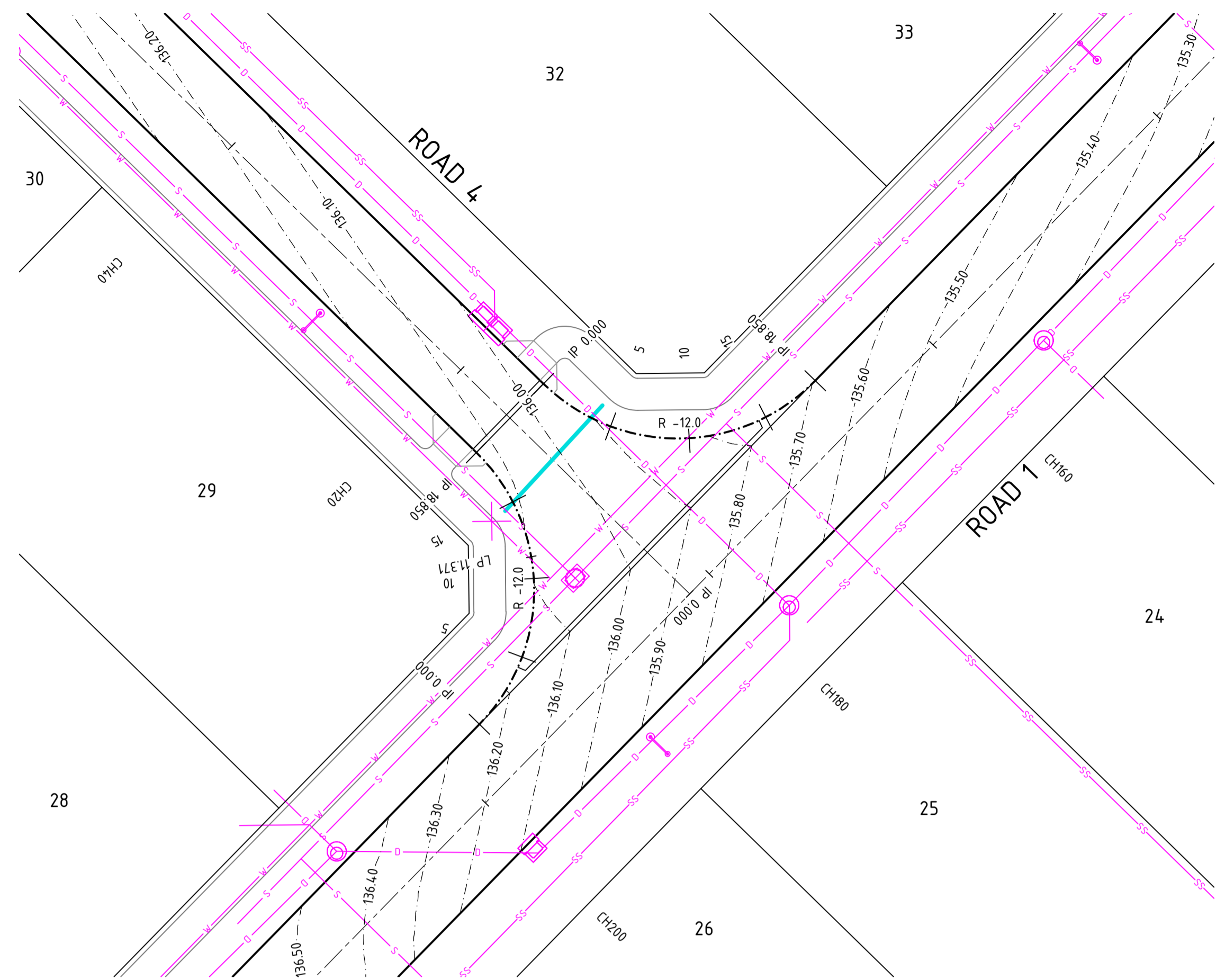
PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
ROAD INTERSECTION DETAILS
SHEET 1

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE @ A1 AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS24-2318.01A	CO-ORDS MRC694
DRAWING No. C330	REVISION 1



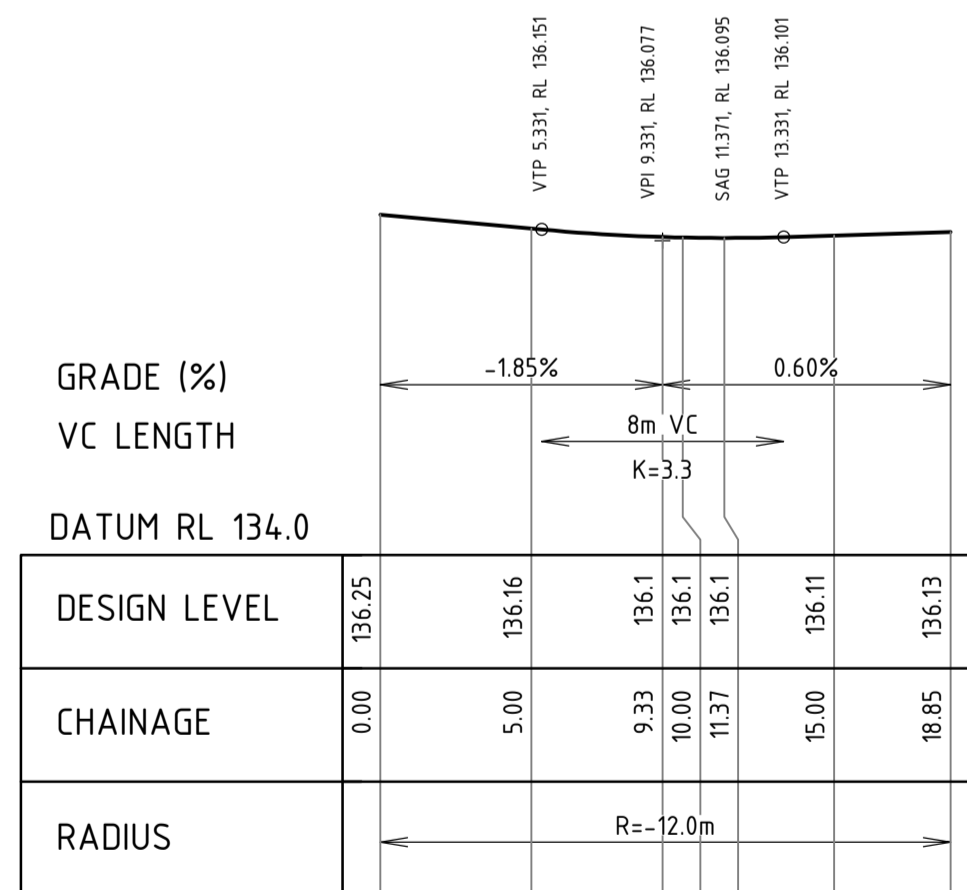
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PLAN
SCALE 1:250

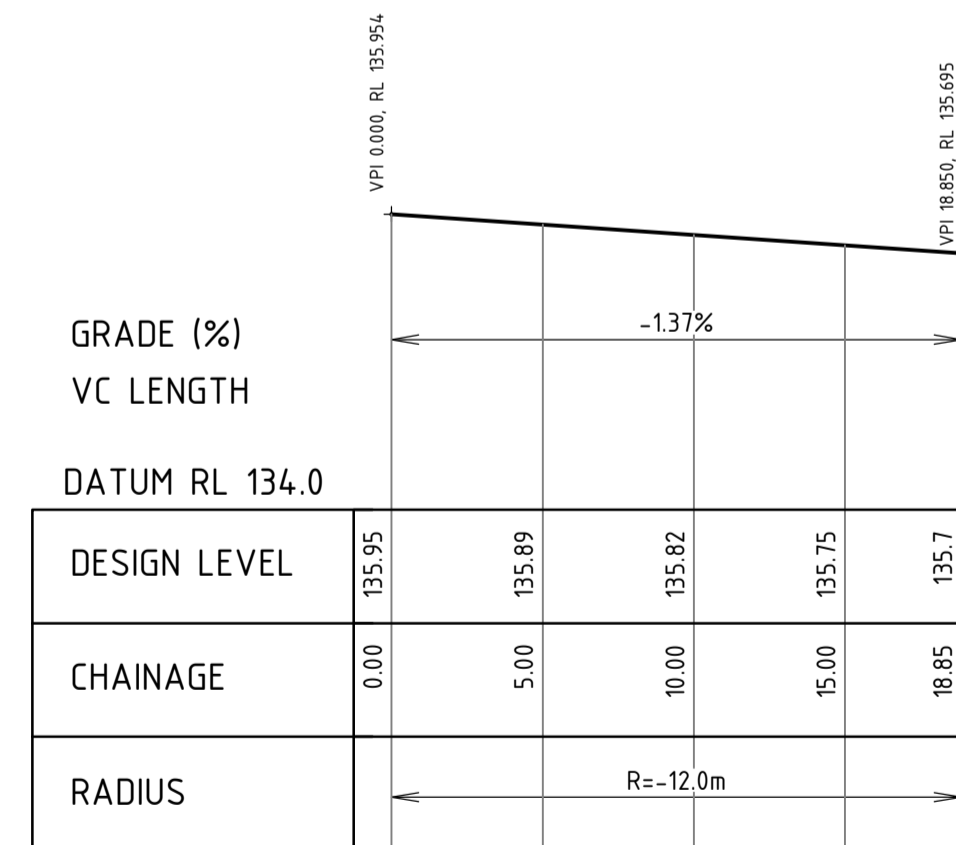
NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION
2. REFER DRAWING JDS242318.01A_C330 FOR NOTES AND LEGEND.



KERB RETURN LONGITUDINAL SECTION
ROAD 1 to ROAD 4

SCALE HORIZ 1 : 250
VERT 1 : 50



KERB RETURN LONGITUDINAL SECTION
ROAD 4 to ROAD 1

SCALE HORIZ 1 : 250
VERT 1 : 50



SCALE 1:250 @ ORIGINAL SHEET SIZE A1



SCALE 1:50 @ ORIGINAL SHEET SIZE A1

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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
1	24.06.25	LV	BWW	BJW	AMENDED FOR RAISED ROAD 1 & ROAD 4 AND LENGTH OF VC'S
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	CS	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
ROAD INTERSECTION DETAILS
SHEET 2

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE @ A1 AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRC694
DRAWING No. C331	REVISION 1

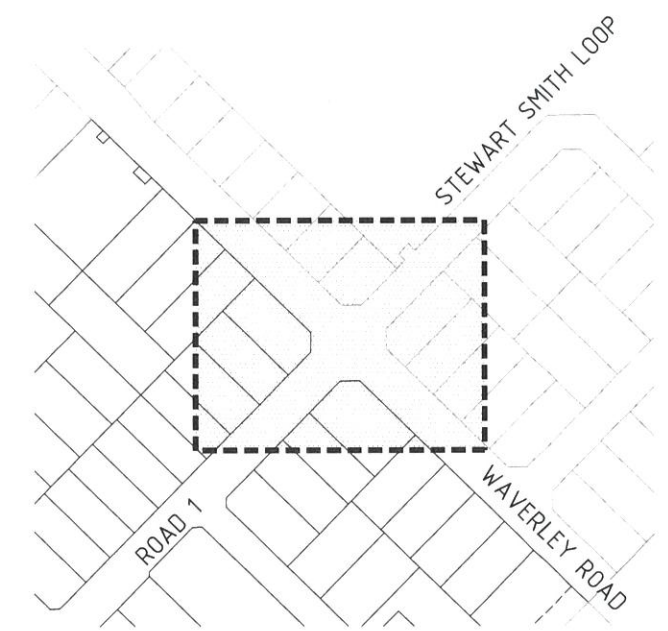
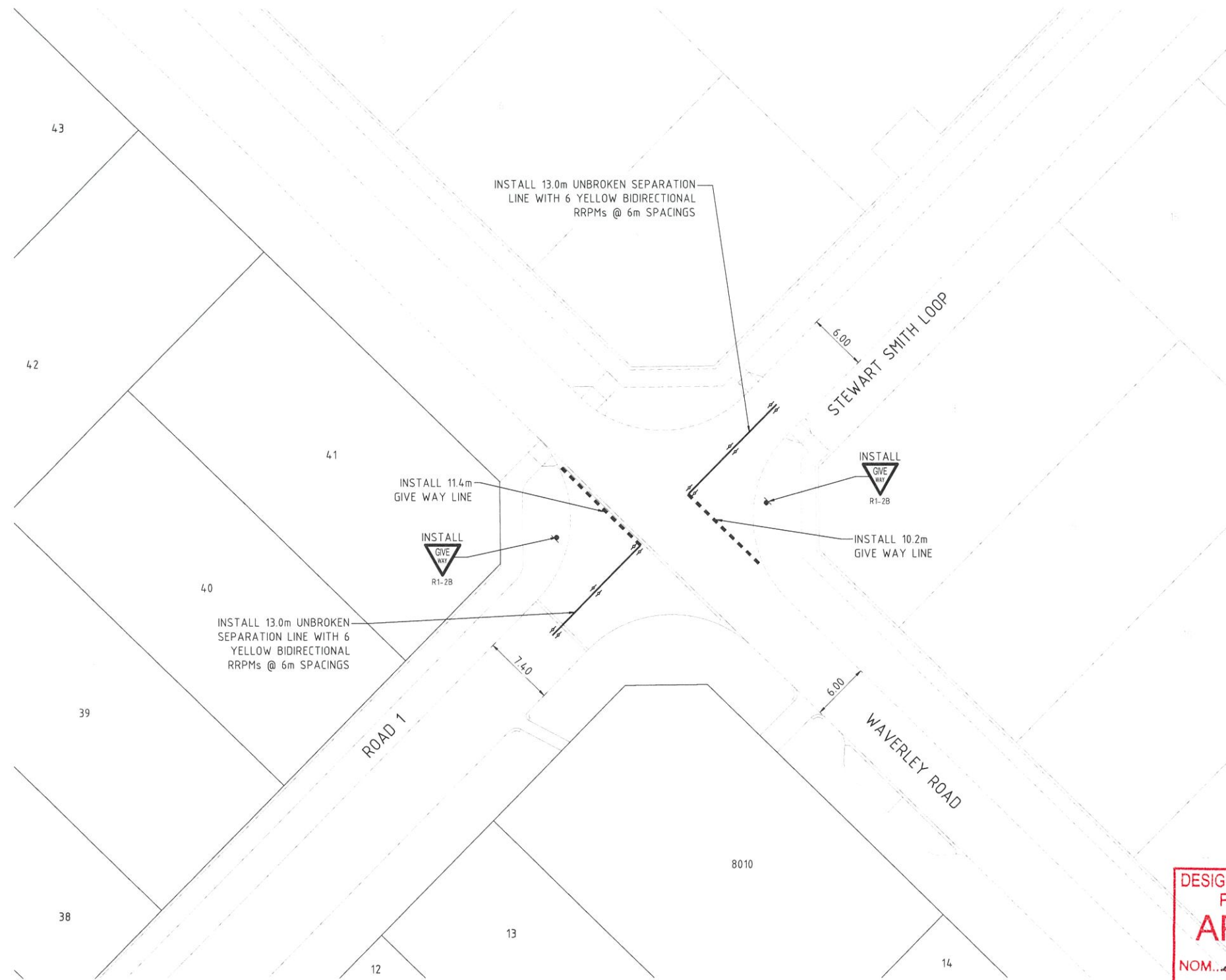


NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION
2. ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE
3. FOR PAVEMENT MARKING LINE TYPES REFER TO MRWA STANDARD DRG 9931-0198
4. FOR DIAGONAL MARKING DETAILS REFER TO MRWA STANDARD DRG 200331-091
5. FOR RAISED RETRO-REFLECTIVE PAVEMENT MARKER LOCATIONS REFER TO MRWA STANDARD DRG 9120-158
6. ALL LINEMARKING AND SIGNS TO BE INSTALLED AS PER MRWA SPECIFICATIONS AND BY MRWA APPROVED CONTRACTORS
7. CONTRACTOR TO PROVIDE
 - 7.1 PVC SLEEVES (150mm) WHERE SIGNS ARE LOCATED WITHIN PAVED AREAS
 - 7.2 SPOTTING TO MRWA GUIDELINES AT THE PROPOSED POSITIONS OF PAVEMENT MARKINGS

LEGEND

- PROPOSED LINEMARKING
- PROPOSED EDGE OR ROAD
- - - EXISTING EDGE OF ROAD
- ◀▶ YELLOW BIDIRECTIONAL RAISED PAVEMENT MARKER
- ◻ PROPOSED SIGN POST
- ◻ EXISTING SIGN POST



PLAN
SCALE 1:250

0 2.5 5 10 15m
SCALE 1:250 @ ORIGINAL SHEET SIZE A1

DESIGN OF TRAFFIC SIGNS AND PAVEMENT MARKING
APPROVED
 NOM. *Abn Dab*
 Date *29/05/25*
 MRWA File *14/2863*
 Main Roads Western Australia

WARNING
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BEFORE YOU DIG
 www.byde.com.au

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
C	16/05/25	CS	BWW	BJW	FINAL SUBMISSION FOR MRWA APPROVAL
B	05/05/25	CS	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20/12/24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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JDSi
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Birdwood
 COWARAMUP - MASTERPLANNED COMMUNITY

CLIENT:
 PROJECT: LOT 500 WIRING ROAD
 COWARAMUP STAGE 01A
 DRAWING TITLE:
 SIGNS AND LINE MARKING PLAN

DRAWN LVU	IRAPC No. 200656
DESIGNED LVU	SCALE @ A1 1:250
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS24-2318.01A	CO-ORDS MRCG94
DRAWING No. C340	REVISION C

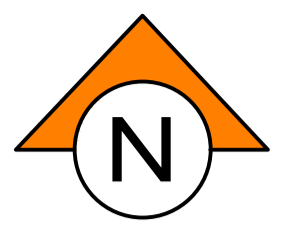


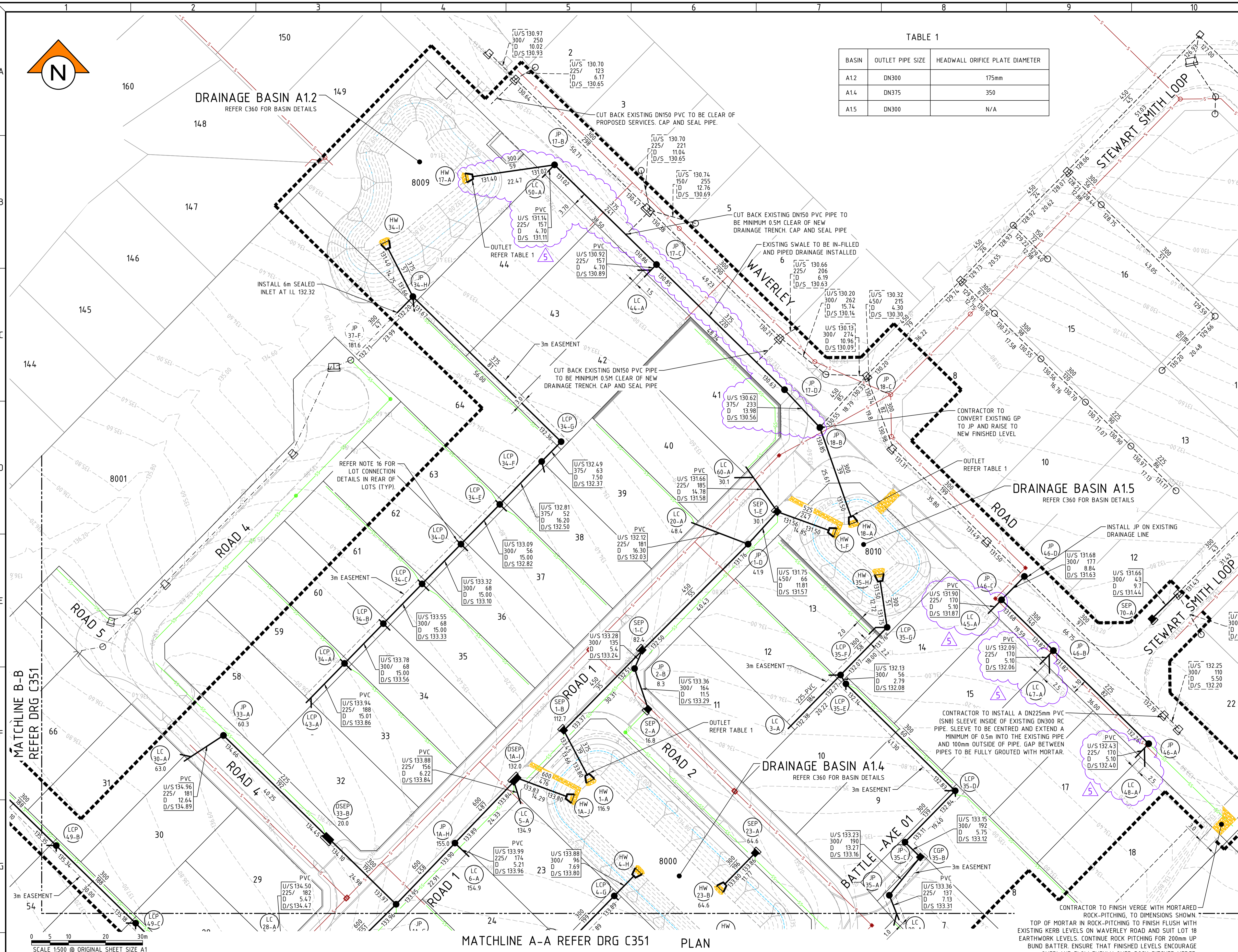
TABLE 1

BASIN	OUTLET PIPE SIZE	HEADWALL ORIFICE PLATE DIAMETER
A1.2	DN300	175mm
A1.4	DN375	350
A1.5	DN300	N/A

- NOTES
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION
 - SETOUT OF ROAD CENTERLINE, FACE OF KERB AND EDGE OF SEAL FOR UN-KERBED ROADS SHALL BE BASED ON SUPPLIED AUTOCAD (KBASE_JDS242318.01) DATA. ALL OTHER WORKS SHALL BE SETOUT BASED ON INFORMATION CONTAINED ON THE CONTRACT DRAWINGS AND SPECIFICATION
 - THE CONSTRUCTION OF WORKS SHALL BE TO THE APPROVAL OF THE LOCAL AUTHORITY
 - ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE
 - ALL LEVELS SHALL BE DETERMINED FROM BENCHMARKS ESTABLISHED BY THE PROJECT SURVEYOR
 - ALL TRENCHING, PIPE BEDDING AND BACKFILLING SHALL BE IN ACCORDANCE WITH AS3725
 - ALL DRAINAGE PITS SHALL BE LOCATED AS SHOWN IRRESPECTIVE OF PIPE LENGTHS SHOWN ON THE DRAWINGS
 - AT LOW POINTS THE ENTRY PITS SHALL BE LOCATED AT THE LOW POINT OF THE ROAD PAVEMENT
 - THE DRAINAGE PIT LIDS SHALL BE SET TO SUIT THE VERGE SLOPE, NOMINALLY 2% UPWARDS FROM THE TOP OF BACK OF KERB
 - WHERE A SEWER LINE INTERSECTS WITH STORMWATER DRAINAGE LINE AND THE SEWER PASSES OVER THE DRAIN THEN THE SEWER SHALL HAVE A TIMBER PILE AND KEEL PROVIDED FOR THE FULL EXTENT NECESSARY TO SUPPORT THE SEWER DURING EXCAVATION FOR THE DRAIN
 - THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY DISCREPANCY OR CLASH WITH OTHER SERVICES TO THE SUPERINTENDENT
 - ALL JUNCTION PITS LOCATED IN THE ROAD PAVEMENT SHALL HAVE TRAFFICABLE LIDS
 - FOR SERVICE CROSSING LEVELS REFER TO DRAINAGE LONGITUDINAL SECTIONS
 - ROAD PAVEMENT TYPES AND BRICK PAVING REMOVED FOR CLARITY - REFER TO PAVEMENT DRAWING FOR DETAILS
 - IN CIRCUMSTANCES WHERE MULTIPLE PIPES ENTER A LINER A MINIMUM OF 40% OF THE LINER SHALL REMAIN IN ANY HORIZONTAL PLANE. ALL PITS CLASS 2 RCP UND ALL JP LIDS TO BE RAISED STEEL LIDS CLASS 'D' TO AS3996.
 - REFER DRAWING C912 FOR TYPICAL LOT CONNECTION AND LOT CONNECTION PIT DETAIL

- LEGEND
- LIMIT OF WORKS
 - LOT NUMBER
 - PIPE DIA-CLASS GRADE
 - PROPOSED DRAINAGE WITH NOTATION (CLASS IF NOT CLASS 2) UPSTREAM INVERT LEVEL PIPE DIA / GRADE LENGTH DOWNSTREAM INVERT LEVEL
 - PROPOSED DRAINAGE
 - EXISTING DRAINAGE
 - EXISTING DRAINAGE TO BE REMOVED
 - FUTURE DRAINAGE
 - EXISTING/ PROPOSED/ FUTURE SUBSOIL DRAINAGE
 - PROPOSED/EXISTING/FUTURE SEWER
 - PROPOSED JUNCTION PIT
 - PROPOSED SIDE ENTRY PIT
 - PROPOSED DOUBLE SIDE ENTRY PIT
 - PROPOSED COMBINATION SIDE ENTRY/GULLY PIT
 - PROPOSED GULLY PIT
 - PIT TYPE
 - PIT NUMBER
 - CHAINAGE
 - JUNCTION PIT
 - DOUBLE GRATED PIT
 - GRATED PIT (TRAPPED WHEN IN SWALES)
 - SIDE ENTRY PIT
 - COMBINATION SIDE ENTRY/GULLY PIT
 - LOT CONNECTION PIT
 - BUBBLE-UP PIT
 - GROSS POLLUTANT TRAP
 - PROPOSED BATTER
 - PROPOSED KERB OPENING - REFER TO DRAWING C911 FOR DETAILS
 - PROPOSED ROCK-PITCHING
 - PROPOSED/EXISTING/FUTURE CONTOUR
 - 1% AEP TWL

WARNING
BEWARE OF UNDERGROUND SERVICES
The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Work Health and Safety (General) Regulations 2022.



REV	DATE	BY	CHECKED	APPROVED	DESCRIPTION
5	15.08.25	LV	BJW	BJW	MINOR AMENDMENTS
4	10.07.25	LV	BWW	BJW	DRAINAGE AMENDMENT FOR UPDATED PRECAL (REVISION P), OTHER MINOR AMENDMENTS
3	24.06.25	LV	BWW	BJW	AMENDED EARTHWORK LEVELS AS SHOWN
2	13.06.25	LV	BWW	BJW	BATTLE-AXE DRAINAGE AMENDMENT
1	05.06.25	LV	BWW	BJW	MINOR AMENDMENTS
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
C	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
B	31.03.25	LV	BWW	BJW	ISSUE FOR INFORMATION
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL
REV	DATE	BY	CHECKED	APPROVED	

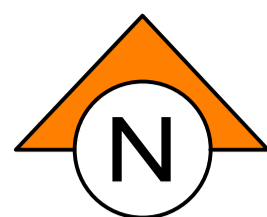
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NOTE
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Certified Quality System to ISO 9001

PLAN
SCALE 1:500

CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

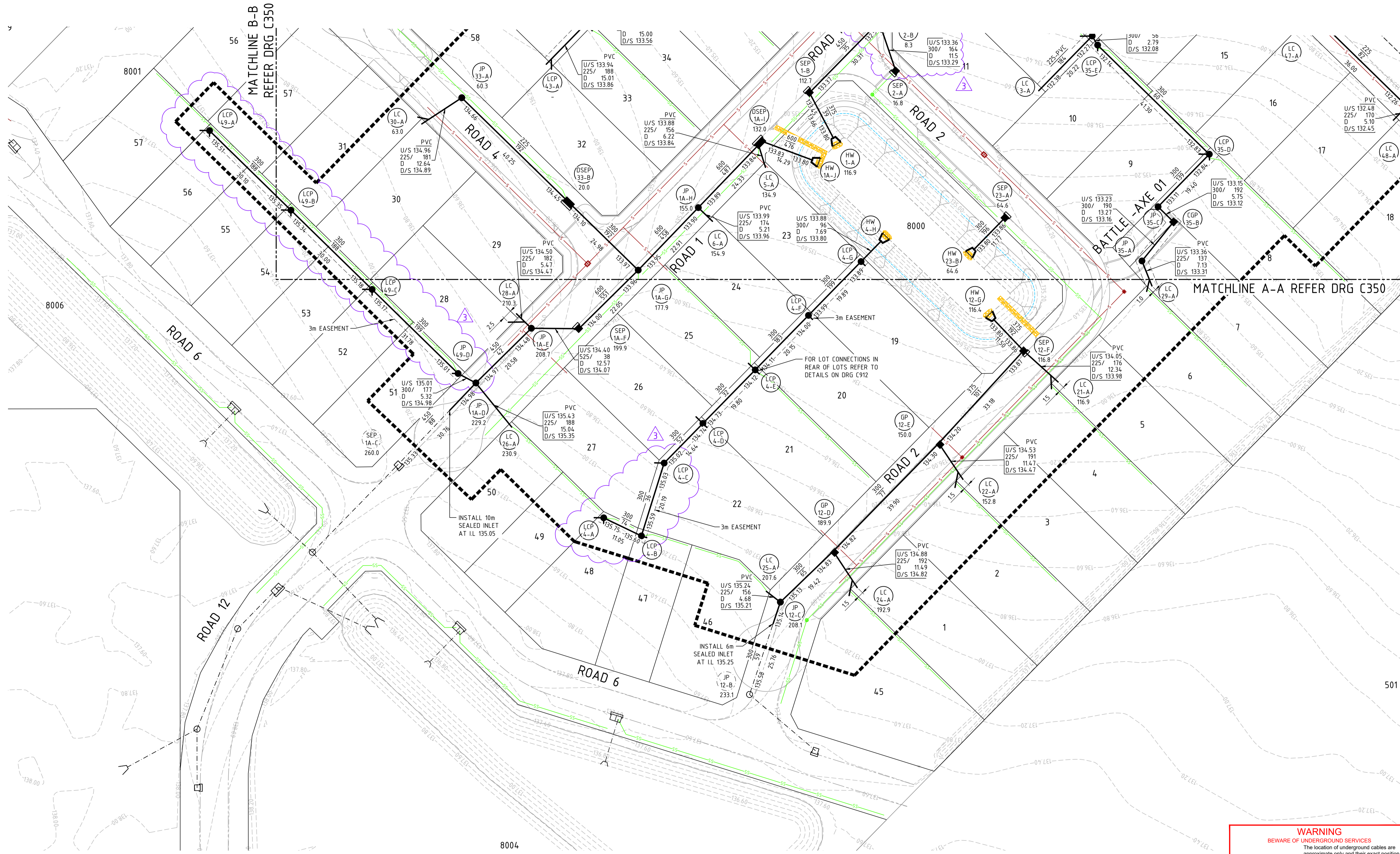
PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A
DRAWING TITLE:
DRAINAGE PLAN
SHEET 1

DRAWN L.V.U	WAPC No. 200656
DESIGNED L.V.U	SCALE @ A1 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRC694
DRAWING No. C350	REVISION 5



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS
2. REFER TO DRAWING JDS242318.01A_C350 FOR NOTES AND LEGEND



0 5 10 20 30m
SCALE 1:500 @ ORIGINAL SHEET SIZE 'A1'

PLAN
SCALE 1:500

WARNING
BEWARE OF UNDERGROUND SERVICES

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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
3	10.07.25	LV	BWW	BJW	DRAINAGE AMENDMENT FOR UPDATED PRECAL(Revision P), OTHER MINOR AMENDMENTS
2	24.06.25	LV	BWW	BJW	AMENDED EARTHWORK LEVELS AS SHOWN
1	13.06.25	LV	BWW	BJW	BATTLE-AXE DRAINAGE AMENDMENT
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
C	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
B	31.03.25	LV	BWW	BJW	ISSUE FOR INFORMATION
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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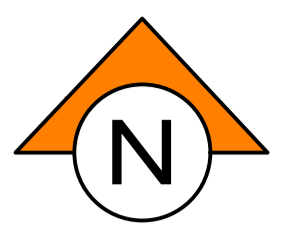
NOTE
This drawing shall be preliminary only until it is issued for construction.
Certified Quality System to ISO 9001

CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
DRAINAGE PLAN
SHEET 2

DRAWN LVU	WAPC No. 200656
DESIGNED LVU	SCALE 1:500
PROJECT MANAGER B. WASHFOLD	DATUM AHD72
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C351	REVISION 3



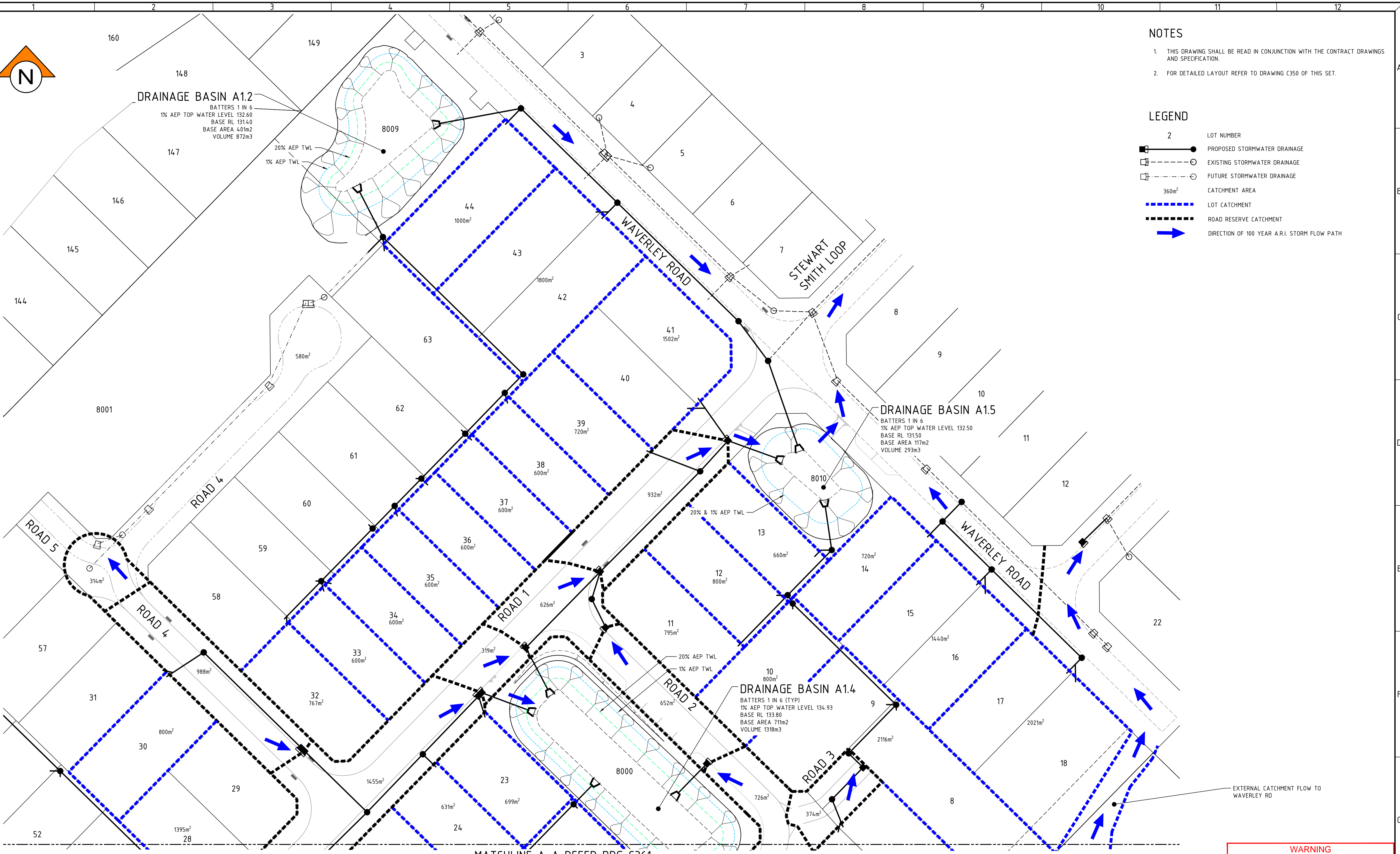
- NOTES**
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.
 2. FOR DETAILED LAYOUT REFER TO DRAWING C350 OF THIS SET.

- LEGEND**
- 2 LOT NUMBER
 - PROPOSED STORMWATER DRAINAGE
 - EXISTING STORMWATER DRAINAGE
 - FUTURE STORMWATER DRAINAGE
 - 360m² CATCHMENT AREA
 - LOT CATCHMENT
 - ROAD RESERVE CATCHMENT
 - DIRECTION OF 100 YEAR A.R.I. STORM FLOW PATH

DRAINAGE BASIN A1.2
 BATTERS 1 IN 6
 1% AEP TOP WATER LEVEL 132.60
 BASE RL 131.40
 BASE AREA 401m²
 VOLUME 872m³

DRAINAGE BASIN A1.5
 BATTERS 1 IN 6
 1% AEP TOP WATER LEVEL 132.50
 BASE RL 131.50
 BASE AREA 117m²
 VOLUME 293m³

DRAINAGE BASIN A1.4
 BATTERS 1 IN 6 (TYP)
 1% AEP TOP WATER LEVEL 134.93
 BASE RL 133.80
 BASE AREA 711m²
 VOLUME 1318m³



0 5 10 20 30m
 SCALE 1:500 @ ORIGINAL SHEET SIZE A1

0 1 2 4 6m
 SCALE 1:100 @ ORIGINAL SHEET SIZE A1

PLAN
 SCALE 1:500

MATCHLINE A-A REFER DRG C361

WARNING
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BEFORE YOU DIG
 www.byda.com.au

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
B	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

Plotted By: BWhitfield Plot Date: 05/05/25 - 11:27 Cad File: C:\2d\5\data\JDSI-12DSYN\JDS242318 247\JDS242318.01\CIVIL\Drawings\JDS242318.01_C360-C361.dwg

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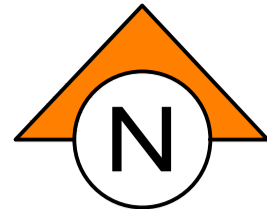
JDSi
 CONSULTING ENGINEERS

CLIENT:
Birdwood
 COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
 LOT 500 WIRING ROAD
 COWARAMUP STAGE 01A

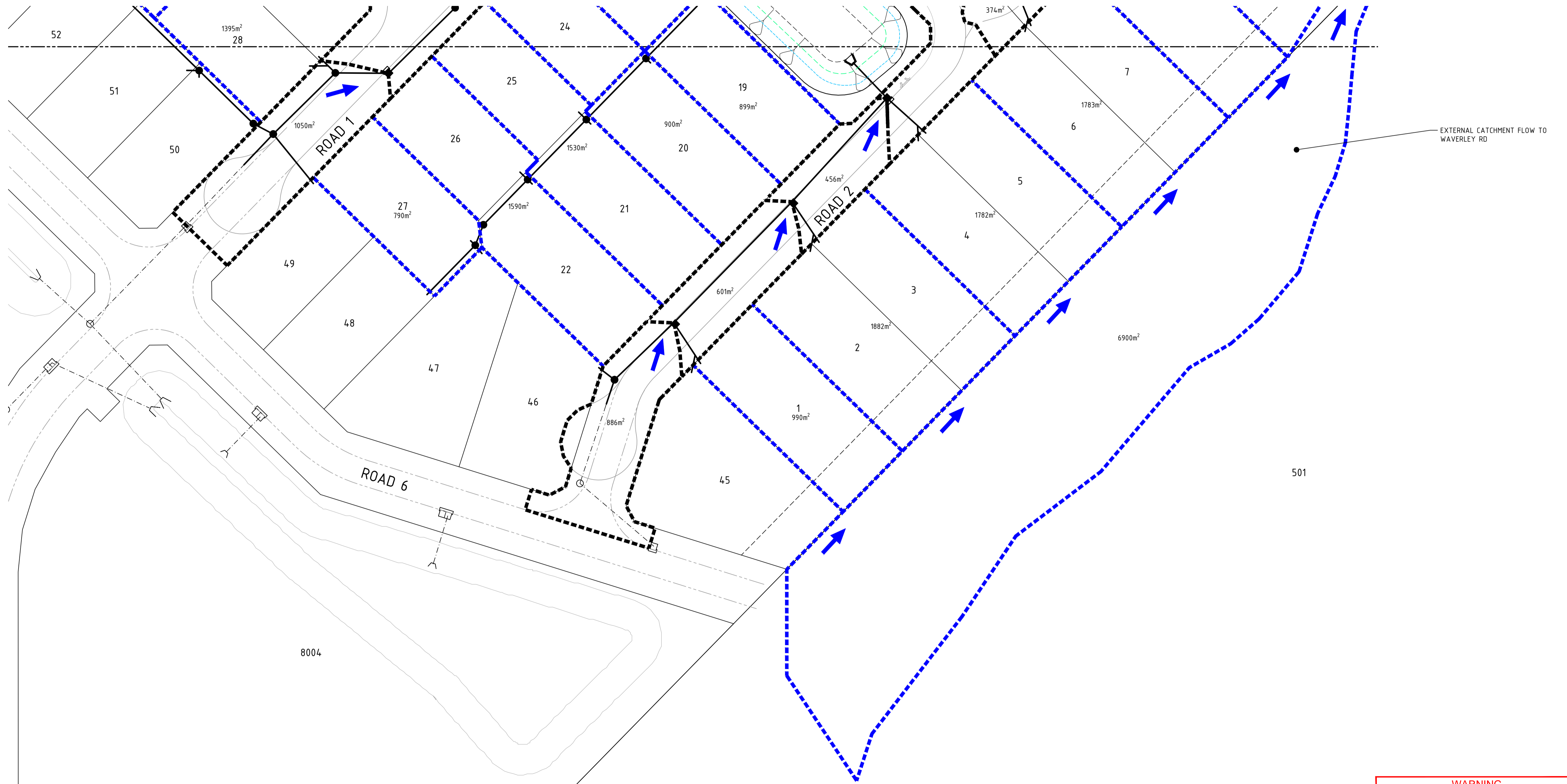
DRAWING TITLE:
 DRAINAGE CATCHMENT AND BASIN PLAN
 SHEET 1

DRAWN LVU	WAPC No. 200656
DESIGNED LVU	SCALE AS SHOWN
PROJECT MANAGER B. WASHFOLD	DATUM AHD73
JDSI PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C360	REVISION B



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.
2. FOR DETAILED LAYOUT REFER TO DRAWING C351 OF THIS SET.



PLAN
SCALE 1:500

0 5 10 20 30m
SCALE 1:500 @ ORIGINAL SHEET SIZE 'A1'

WARNING
BEWARE OF UNDERGROUND SERVICES

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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
B	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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NOTE
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Certified Quality System to ISO 9001

CLIENT:

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
DRAINAGE CATCHMENT AND BASIN PLAN
SHEET 2

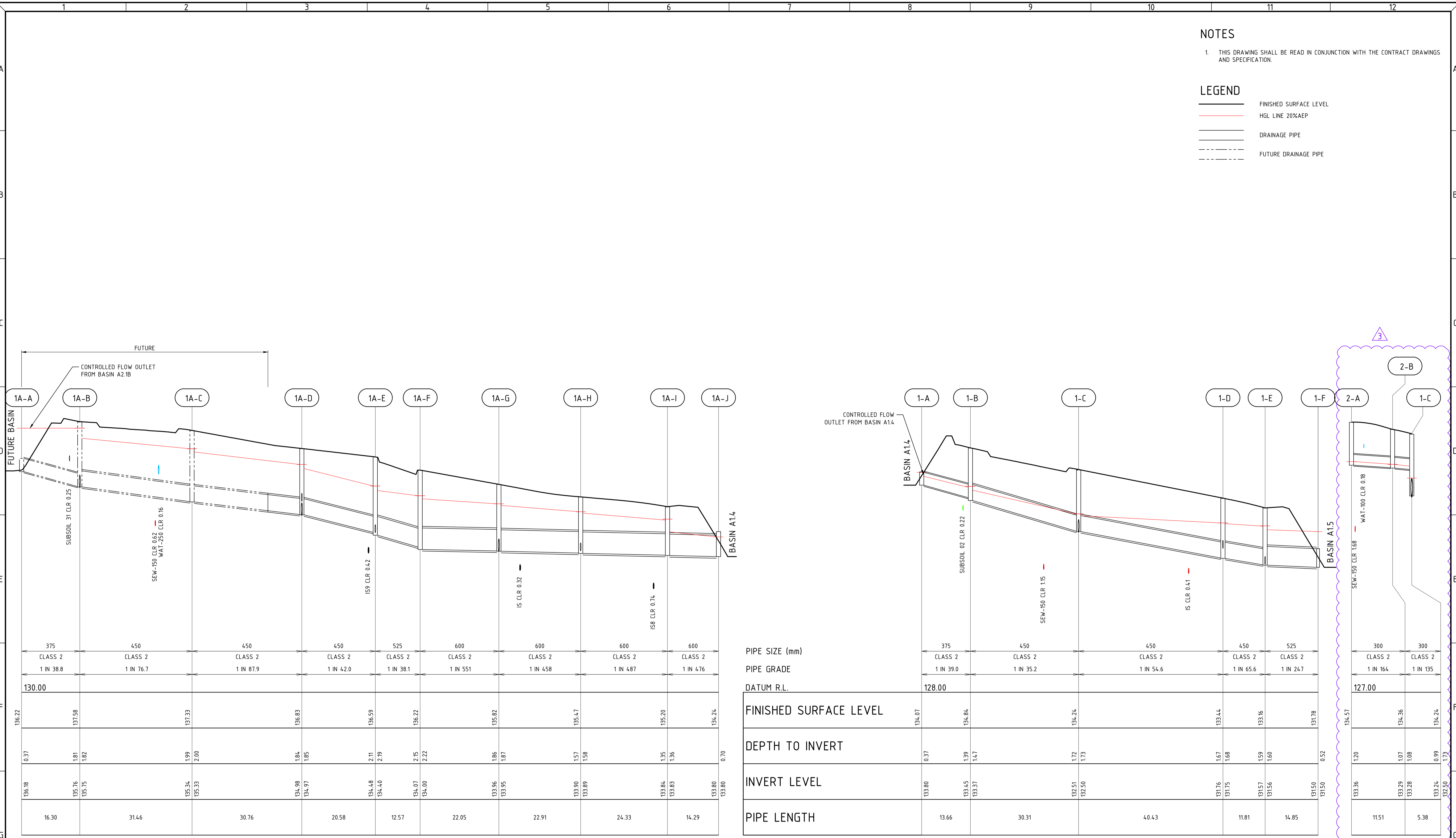
DRAWN L.V.U.	WAPC No. 200656
DESIGNED L.V.U.	SCALE 1:500
PROJECT MANAGER B. WASHFOLD	DATUM AHD74
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C361	REVISION B

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.

LEGEND

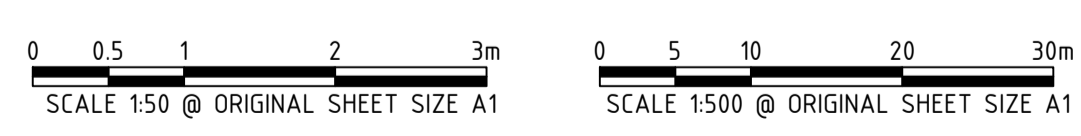
- FINISHED SURFACE LEVEL
- HGL LINE 20%AEP
- DRAINAGE PIPE
- FUTURE DRAINAGE PIPE



DRAIN LINE 1A

DRAIN LINE 1

DRAIN LINE 2



WARNING
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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
3	10.07.25	LV	BWW	BJW	AMENDED DRAIN LINE 2
2	24.06.25	LV	BWW	BJW	AMENDED EARTHWORK LEVELS AS SHOWN
1	05.06.25	LV	BWW	BJW	MINOR AMENDMENTS
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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NOTE
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CLIENT:

PROJECT:
**LOT 500 WIRING ROAD
COWARAMUP STAGE 01A**

DRAWING TITLE:
**DRAINAGE LONGITUDINAL SECTIONS
SHEET 1**

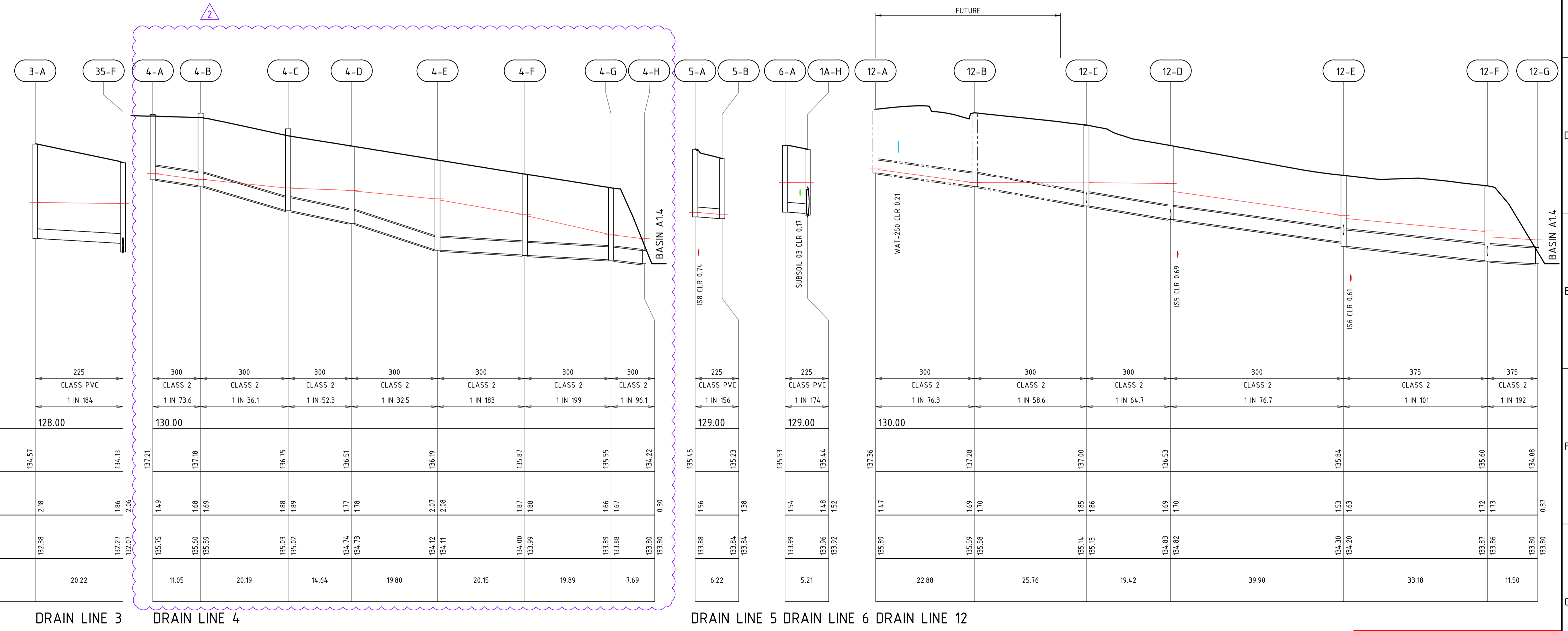
DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C370	REVISION 3

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.

LEGEND

- FINISHED SURFACE LEVEL
- EXISTING SURFACE LEVEL
- HGL LINE 20%AEP
- DRAINAGE PIPE
- FUTURE DRAINAGE PIPE



PIPE SIZE (mm)	225
PIPE GRADE	CLASS PVC 1 IN 184
DATUM R.L.	128.00
FINISHED SURFACE LEVEL	134.57 134.13
DEPTH TO INVERT	2.18 1.86
INVERT LEVEL	132.38 132.27
PIPE LENGTH	20.22

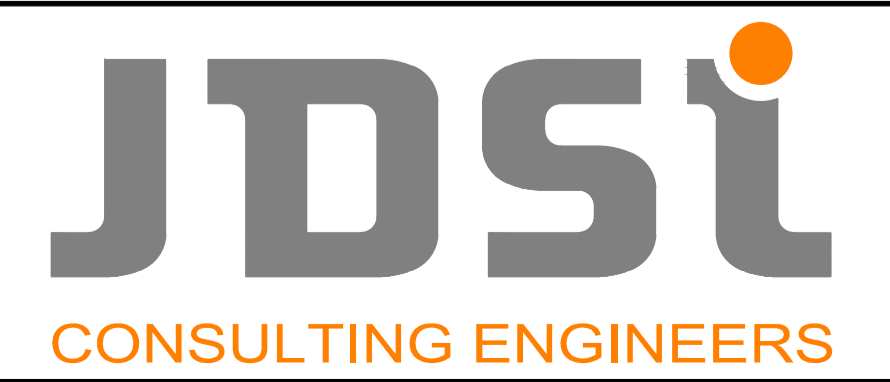
0 0.5 1 2 3m
SCALE 1:50 @ ORIGINAL SHEET SIZE A1

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
2	10.07.25	LV	BWW	BJW	AMENDED DRAIN LINE 4
1	24.06.25	LV	BWW	BJW	AMENDED EARTHWORK LEVELS AS SHOWN
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
1	10.07.25	LV	BWW	BJW	AMENDED DRAIN LINE 4
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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NOTE
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Certified Quality System to ISO 9001



CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
DRAINAGE LONGITUDINAL SECTIONS
SHEET 2

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C371	REVISION 2

WARNING
BEWARE OF UNDERGROUND SERVICES

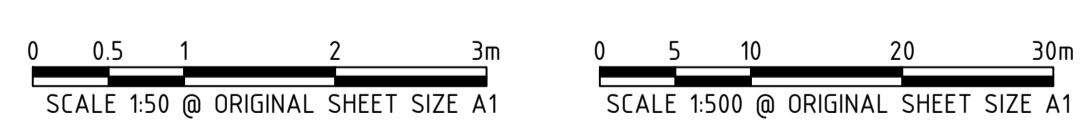
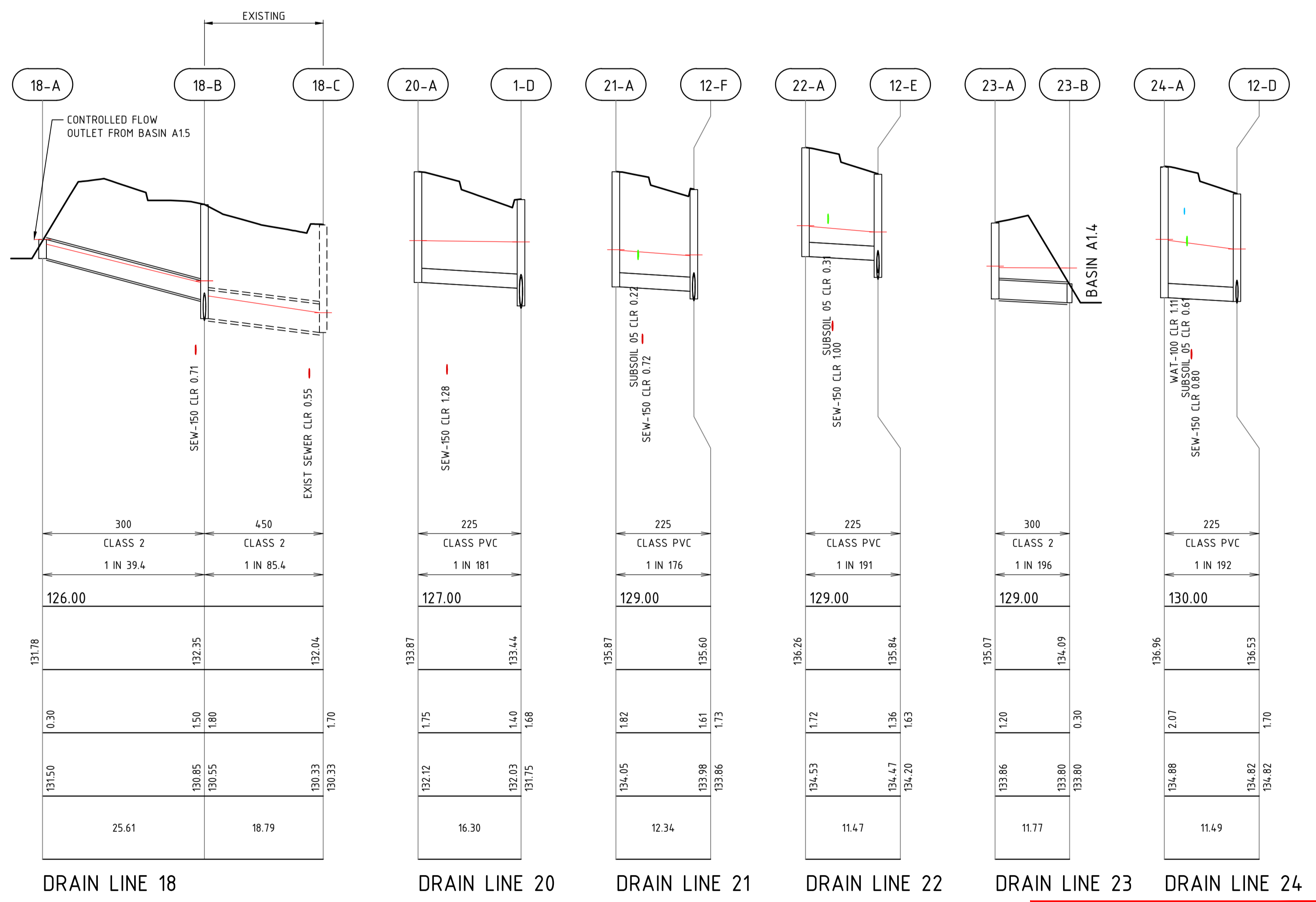
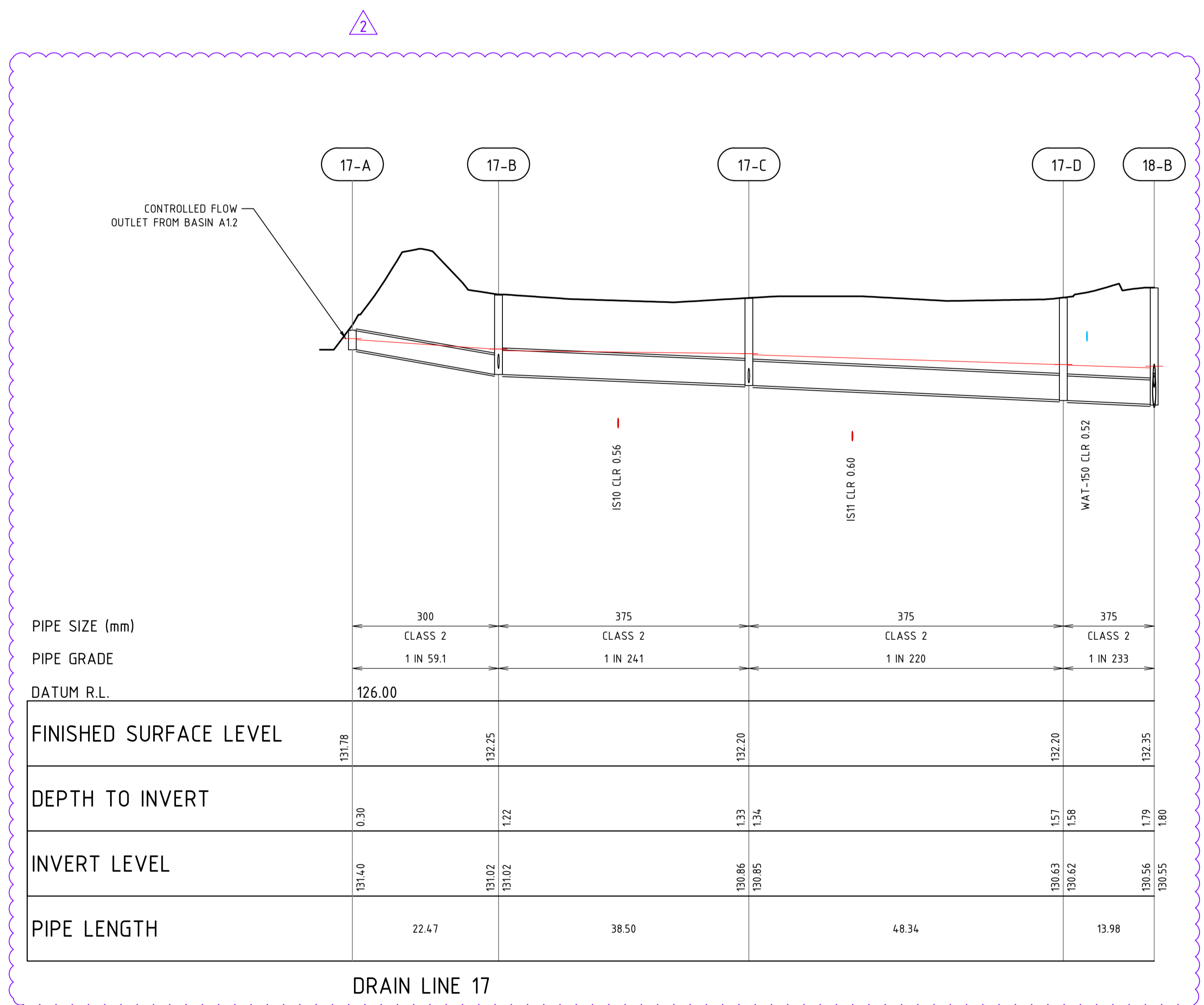
The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Work Health and Safety (General) Regulations 2022.

NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.

LEGEND

- FINISHED SURFACE LEVEL
- EXISTING SURFACE LEVEL
- HGL LINE 20% AEP
- DRAINAGE PIPE
- EXISTING DRAINAGE PIPE



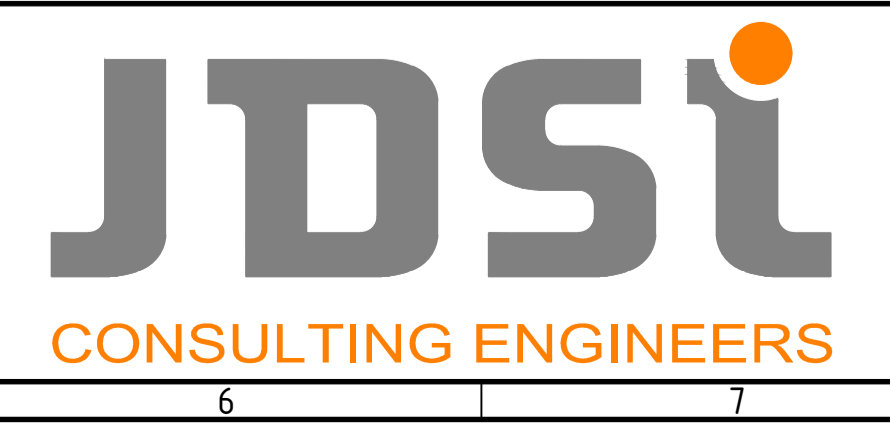
WARNING
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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
2	15.08.25	LV	BJW	BJW	MINOR AMENDMENTS
1	05.06.25	LV	BWW	BJW	MINOR AMENDMENTS
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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NOTE
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Certified Quality System to ISO 9001



CLIENT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
DRAINAGE LONGITUDINAL SECTIONS
SHEET 3

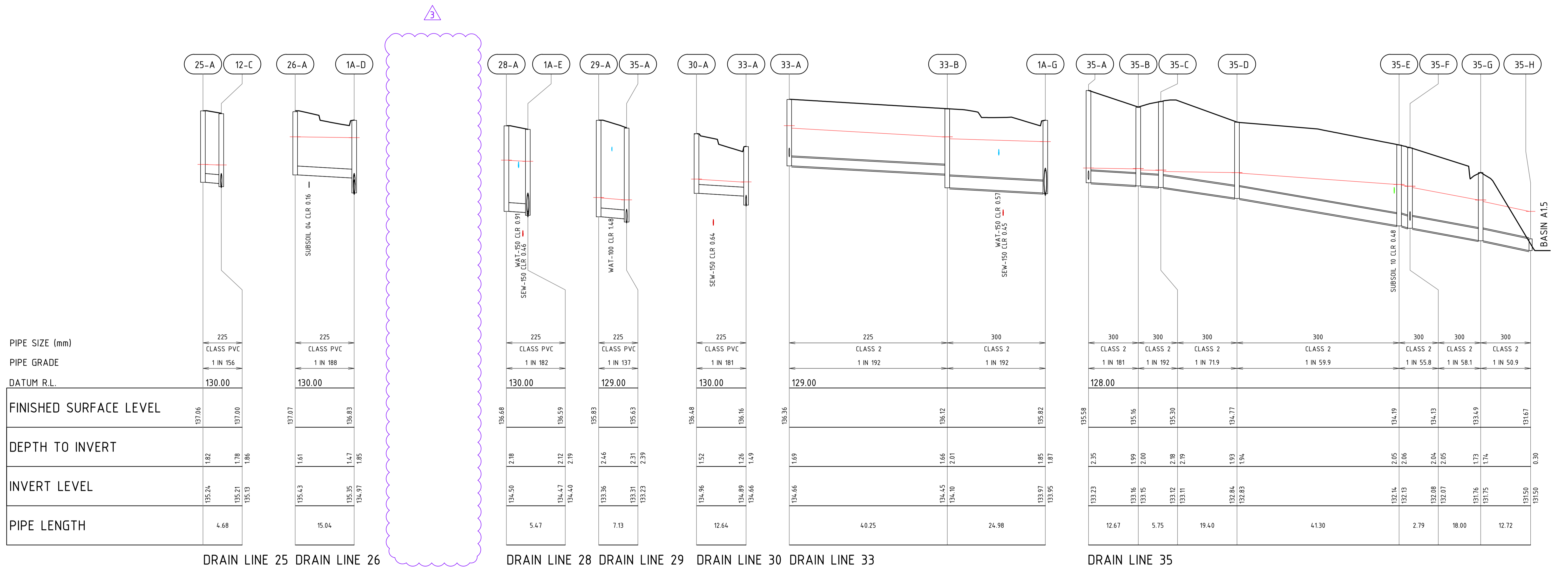
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DESIGNED L.VU	SCALE AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	DRAWING No. C372
	CO-ORDS MRCG94
	REVISION 2

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.


LEGEND

-  FINISHED SURFACE LEVEL
-  HGL LINE 20%AEP
-  DRAINAGE PIPE



WARNING
BEWARE OF UNDERGROUND SERVICES

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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
3	10.07.25	LV	BWW	BJW	REMOVED DRAIN LINE 27
2	24.06.25	LV	BWW	BJW	AMENDED EARTHWORK LEVELS AS SHOWN
1	05.06.25	LV	BWW	BJW	DRAIN LINE 35 REPLACED DRAIN LINE 34
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL

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NOTE
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Certified Quality System to ISO 9001



CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
DRAINAGE LONGITUDINAL SECTIONS
SHEET 4

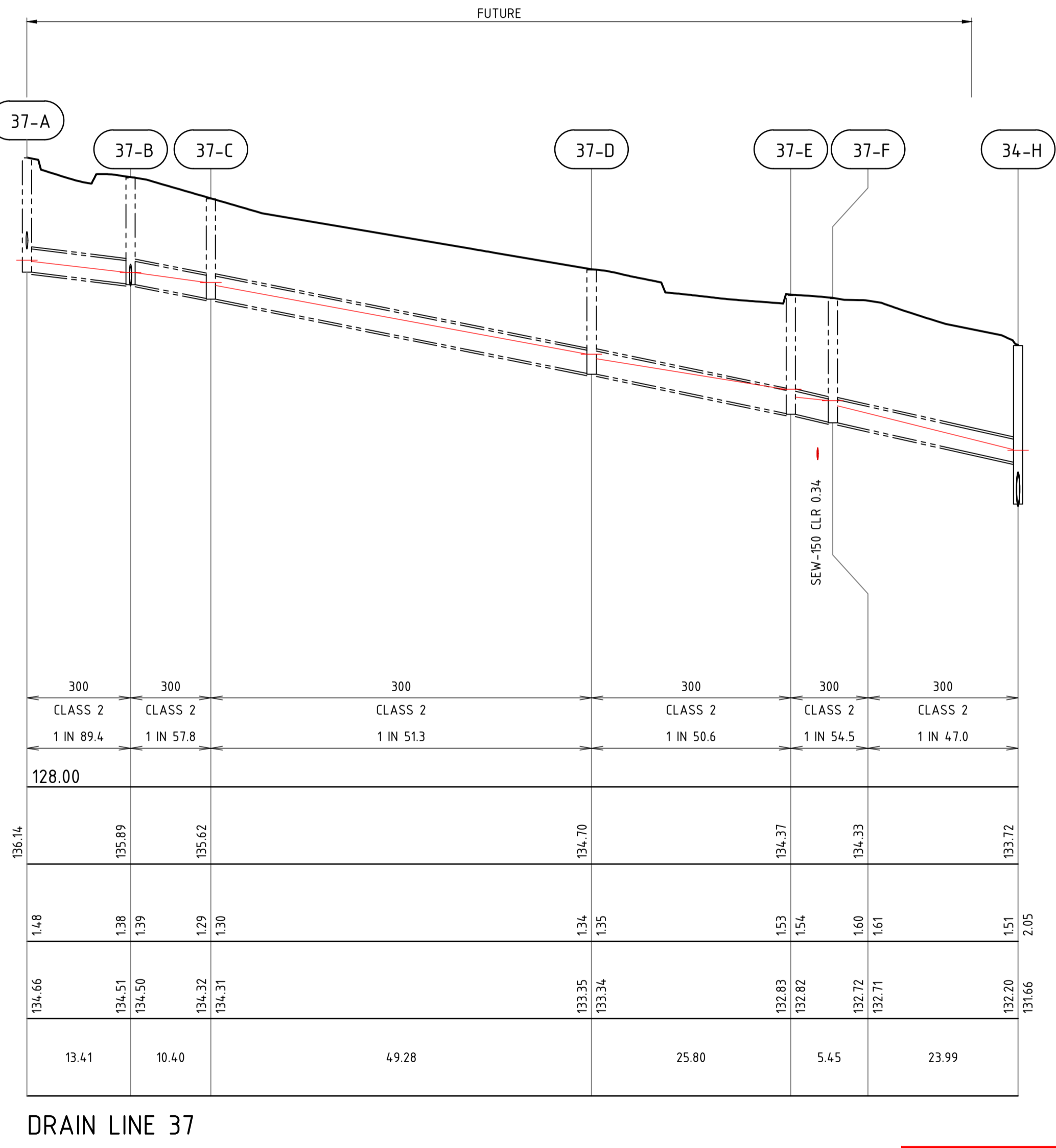
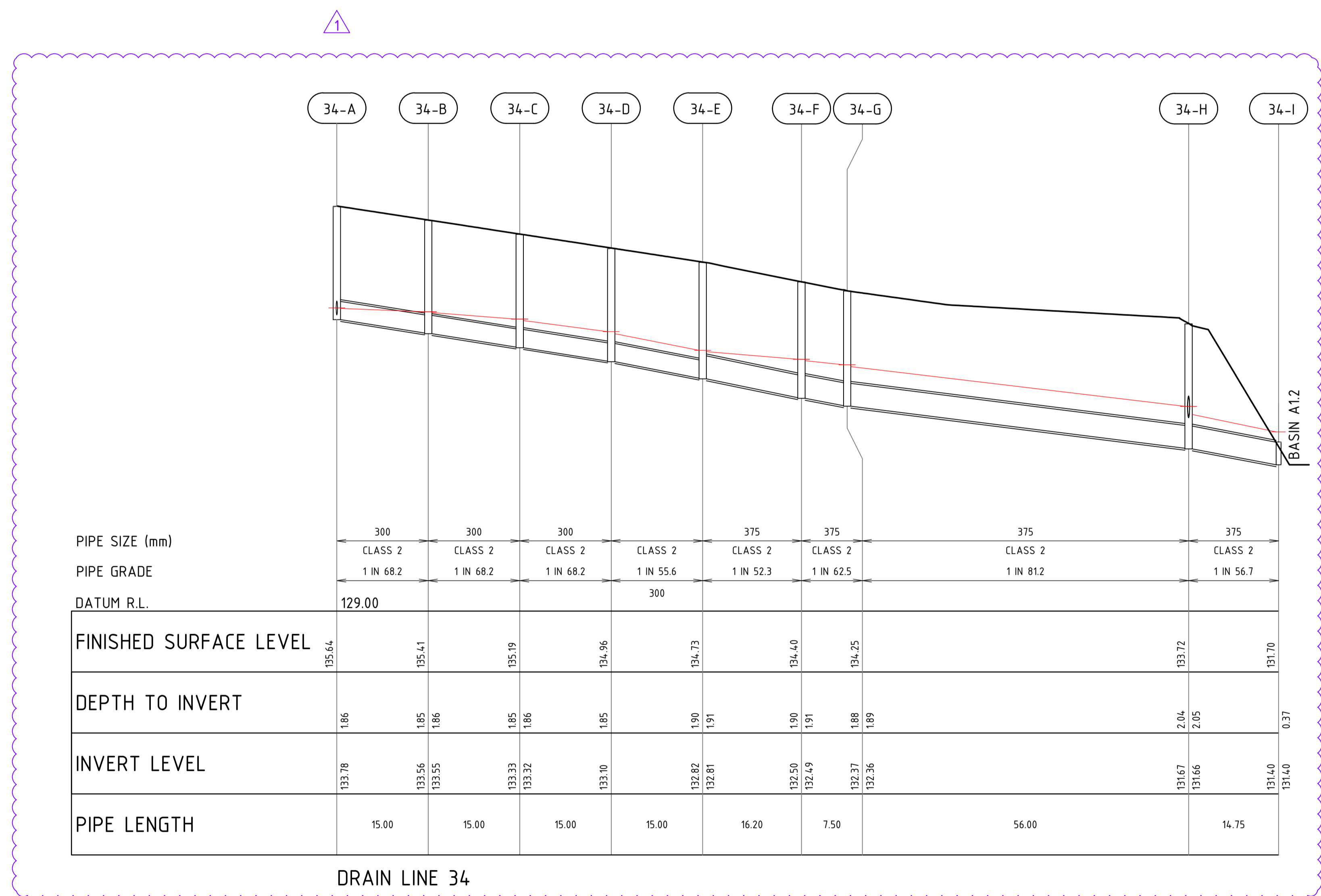
DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE AS SHOWN
PROJECT MANAGER B. WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C373	REVISION 3

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.

LEGEND

- FINISHED SURFACE LEVEL
- HGL LINE 20%AEP
- DRAINAGE PIPE
- FUTURE DRAINAGE PIPE



WARNING
BEWARE OF UNDERGROUND SERVICES

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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
1	05.06.25	LV	BWW	BJW	MINOR AMENDMENTS & DRAIN LINE 34 REPLACED DRAIN LINE 35
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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NOTE
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Certified Quality System to ISO 9001



CLIENT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

PROJECT:
DRAINAGE LONGITUDINAL SECTIONS
SHEET 5

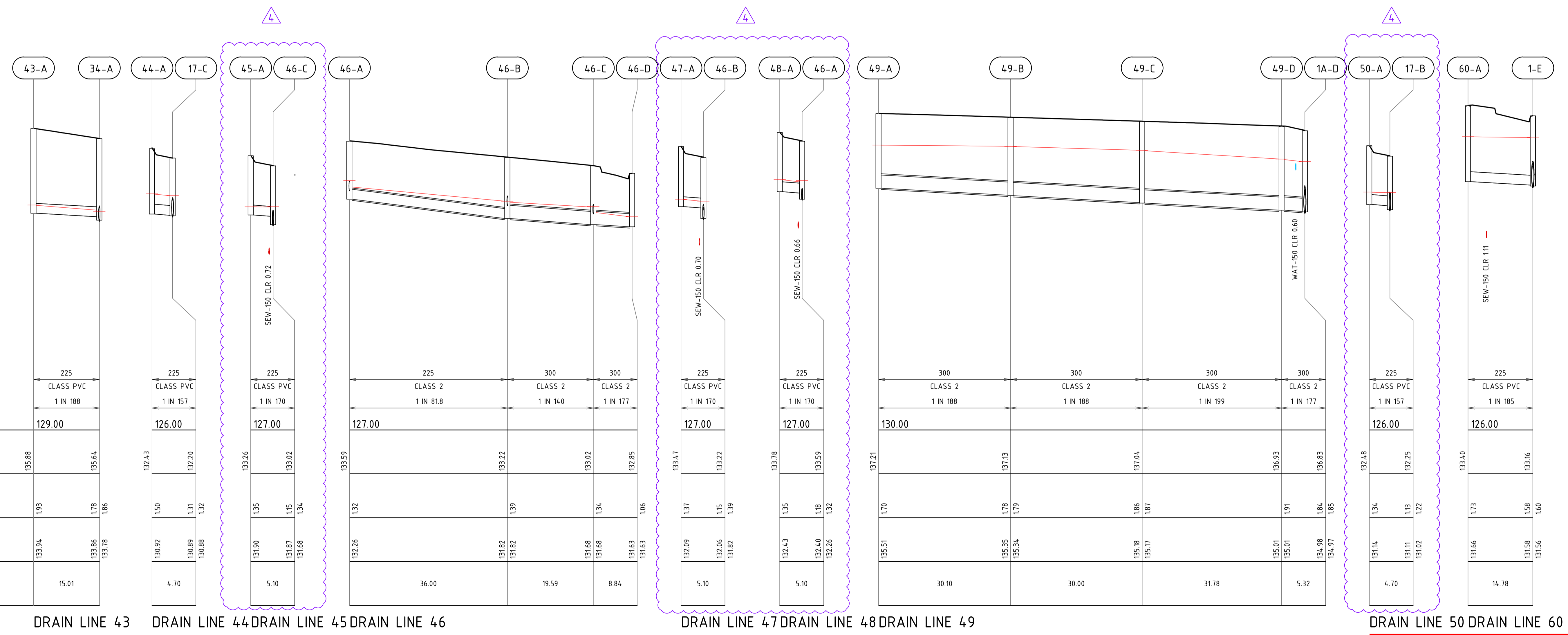
DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	DRAWING No. C374
	REVISION 1

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.

LEGEND

- FINISHED SURFACE LEVEL
- HGL LINE 20% AEP
- DRAINAGE PIPE



PIPE SIZE (mm)	PIPE GRADE	DATUM R.L.	FINISHED SURFACE LEVEL	DEPTH TO INVERT	INVERT LEVEL	PIPE LENGTH
225 CLASS PVC 1 IN 188	129.00	135.88, 135.64	1.93, 1.78, 1.86	133.94, 133.86, 133.78	15.01	
225 CLASS PVC 1 IN 157	126.00	132.43, 132.20	1.50, 1.31, 1.32	130.92, 130.89, 130.88	4.70	
225 CLASS PVC 1 IN 170	127.00	133.26, 133.02	1.35, 1.15, 1.34	131.90, 131.87, 131.68	5.10	
225 CLASS 2 1 IN 81.8	127.00	133.59, 133.22, 133.02, 132.85	1.32, 1.39, 1.34, 1.06	132.26, 131.82, 131.82, 131.63, 131.63	36.00, 19.59, 8.84	
225 CLASS PVC 1 IN 170	127.00	133.47, 133.22	1.37, 1.15, 1.39	132.09, 132.06, 131.82	5.10	
225 CLASS PVC 1 IN 170	127.00	133.78, 133.59	1.35, 1.18, 1.32	132.43, 132.40, 132.26	5.10	
300 CLASS 2 1 IN 188	130.00	137.21, 137.13, 137.04, 136.93, 136.83	1.70, 1.78, 1.79, 1.86, 1.87	135.51, 135.35, 135.34, 135.18, 135.17	30.10, 30.00, 31.78, 5.32	
225 CLASS PVC 1 IN 157	126.00	132.48, 132.25	1.34, 1.13, 1.22	131.14, 131.11, 131.02	4.70	
225 CLASS PVC 1 IN 185	126.00	133.40, 133.16	1.73, 1.58, 1.60	131.66, 131.56, 131.56	14.78	

DRAIN LINE 43 DRAIN LINE 44 DRAIN LINE 45 DRAIN LINE 46 DRAIN LINE 47 DRAIN LINE 48 DRAIN LINE 49 DRAIN LINE 50 DRAIN LINE 60



WARNING
BEWARE OF UNDERGROUND SERVICES

The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Work Health and Safety (General) Regulations 2022.

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
4	15.08.25	LV	BJW	BJW	MINOR AMENDMENTS
3	10.07.25	LV	BWW	BJW	AMENDED DRAIN LINE 49
2	24.06.25	LV	BWW	BJW	AMENDED EARTHWORK LEVELS AS SHOWN
1	05.06.25	LV	BWW	BJW	MINOR AMENDMENTS
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
B	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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NOTE
This drawing shall be preliminary only until it is issued for construction.
Certified Quality System to ISO 9001

CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
DRAINAGE LONGITUDINAL SECTIONS
SHEET 6

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C375	REVISION 4



- ### NOTES
- SUBSOIL PIPES CROSSING PAVEMENT SHALL BE SOLID PIPE UNDER PAVEMENT (NOT SLOTTED)
 - SOLID PVC SUBSOIL SHALL BE EXTENDED MINIMUM 1m BEYOND PAVEMENT
 - PIPE SIZES ARE IN MILLIMETRES - DISTANCES AND LEVELS ARE IN METRES
 - ALL SUBSOIL PIPES SHALL BE CLASS 8 PVC SWJ
 - MINIMUM COVER TO ANY SUBSOIL PIPE SHALL BE 600mm MINIMUM CLEARANCE TO OTHER SERVICES SHALL BE 150mm
 - CONTRACTOR SHALL LIAISE WITH RELEVANT AUTHORITIES WHEN NEAR EXISTING SERVICES
 - ALL PIPE DISTANCES ARE MEASURED BETWEEN CENTRE OF PIT LINERS
 - SUBSOIL AGGREGATE TO BE SINGLE SIZE STONE 14mm OR 20mm IN ACCORDANCE WITH LOCAL AUTHORITIES STANDARDS.
 - REFER TO DRAWING C300 FOR GENERAL & ROAD NOTES
 - REFER TO DRAWING C912 FOR CONSTRUCTION DETAILS

- ### LEGEND
- LIMIT OF WORKS
 - PIPE DIA GRADE LENGTH(m) PROPOSED SUBSOIL DRAINAGE WITH NOTATION
 - SUBSOIL
 - U/S 00.00 PIPE DIA / GRADE
 - D 300/ 0.0 LENGTH
 - D/S 00.00 DOWNSTREAM INVERT LEVEL
 - PROPOSED SUBSOIL DRAINAGE
 - EXISTING SUBSOIL DRAINAGE
 - FUTURE SUBSOIL DRAINAGE
 - PROPOSED/EXISTING/FUTURE DRAINAGE
 - PROPOSED JUNCTION PIT
 - PROPOSED MAINTENANCE SHAFT
 - LCP 1 PIT TYPE
 - PIT NUMBER
 - JP JUNCTION PIT
 - MS MAINTENANCE SHAFT
 - LCP LOT CONNECTION PIT
 - LC LOT CONNECTION
 - DO DROP OUT (REFER DRG C912)
 - +FP PROPOSED FLUSHING POINT (REFER DRG C912)
 - PROPOSED/EXISTING/FUTURE SEWER
 - PROPOSED/EXISTING RETAINING WALL
 - PROPOSED BATTER

WARNING
BEWARE OF UNDERGROUND SERVICES

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MATCHLINE A-A REFER DRG C381
PLAN
SCALE 1:500

REV	DATE	DRAWN	CHECKED	APPROVED
3	25.07.25	LV	BWW	BWW
2	10.07.25	LV	BWW	BJW
1	05.06.25	LV	BWW	BJW
0	16.05.25	LV	BWW	BJW
C	05.05.25	LV	BWW	BJW
B	31.03.25	LV	BWW	BJW
A	20.12.24	LV	BJW	BJW

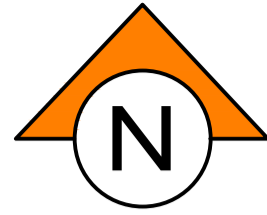
REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
3	25.07.25	LV	BWW	BWW	AMENDED SUBSOIL TO JP 2-B
2	10.07.25	LV	BWW	BJW	AMENDED TO REDUCE OVERALL DEPTH
1	05.06.25	LV	BWW	BJW	MINOR AMENDMENTS
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
C	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
B	31.03.25	LV	BWW	BJW	ISSUE FOR INFORMATION
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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NOTE
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Certified Quality System to ISO 9001

CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

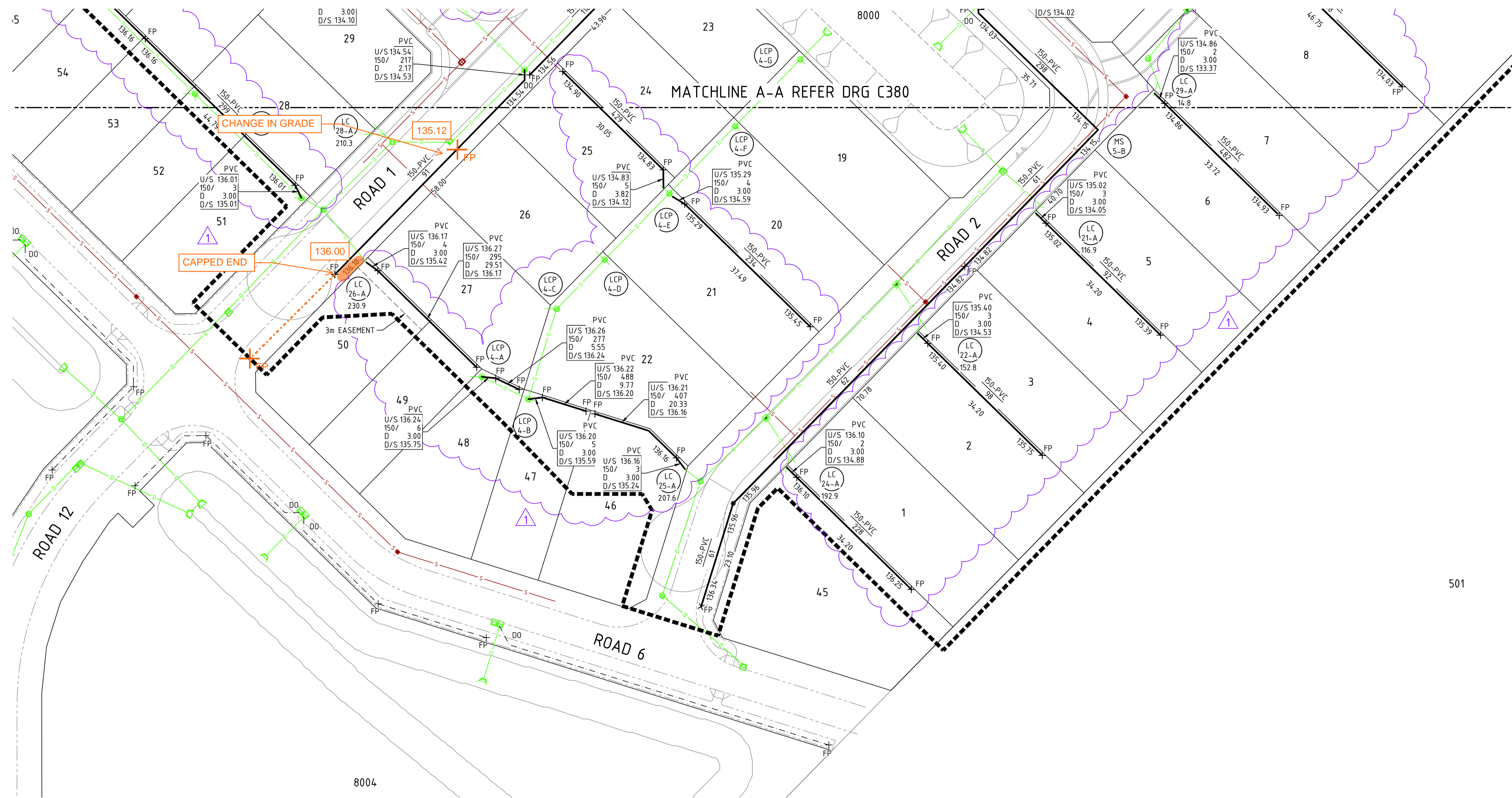
PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A
DRAWING TITLE:
SUBSOIL DRAINAGE PLAN
SHEET 1

DRAWN LVU	WAPC No. 200656
DESIGNED LVU	SCALE @ A1 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C380	REVISION 3



NOTES

- 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS
- 2. REFER TO DRAWING JDS242318.01A_C380 FOR NOTES AND LEGEND



PLAN
SCALE 1:500

0 5 10 20 30m
SCALE 1:500 @ ORIGINAL SHEET SIZE A1

WARNING
BEWARE OF UNDERGROUND SERVICES

The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Work Health and Safety (General) Regulations 2022.

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
1	10.07.25	LV	BWW	BJW	AMENDED TO REDUCE OVERALL DEPTH
0	16.05.25	LV	BWW	BJW	ISSUED FOR CONSTRUCTION
C	05.05.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
B	31.03.25	LV	BWW	BJW	ISSUE FOR INFORMATION
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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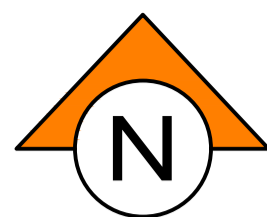
NOTE
This drawing shall be preliminary only until it is issued for construction.
Certified Quality System to ISO 9001

CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
SUBSOIL DRAINAGE PLAN
SHEET 2

DRAWN L.V.U	WAPC No. 200656
DESIGNED L.V.U	SCALE @ A1 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C381	REVISION 1



WARNING
BEWARE OF UNDERGROUND SERVICES

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NOTES

GENERAL

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.
- THE CONSTRUCTION OF THE WORKS SHALL COMPLY WITH THE WATER CORPORATION'S DESIGN STANDARDS 63. (DS63).
- ALL WELDING AND JOINING OF THERMOPLASTICS TO COMPLY WITH WATER CORPORATION'S SPECIFICATION WS-2.
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- THE MAINS SHALL BE LAID ON A 2.1m (COMMON TRENCHING) ALIGNMENT MEASURED FROM THE CENTRE OF THE PIPE TO THE ROAD RESERVE BOUNDARY.
- THE MAINS SHALL BE LAID BETWEEN A MINIMUM AND MAXIMUM COVER IN ACCORDANCE WITH THE WATER CORPORATION DESIGN STANDARDS 63. (DS63).
- ALL SERVICES TO LOTS SHALL BE FULLY PRELAI D UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL REPORT ANY DISCREPANCY OR CLASH WITH OTHER SERVICES TO THE SUPERINTENDENT.
- THE CONTRACTOR SHALL ENSURE THAT COVER ON WATER MAIN TO BE LOWERED TO ACCOMMODATE FUTURE INTERSECTIONS.
- CONTRACTOR TO MAKE ALLOWANCE FOR, INCLUDING BUT NOT LIMITED TO - EXCAVATION, SITE SAFETY, BACKFILL AND REINSTATEMENT AT CONNECTION POINTS.
- CONTRACTOR TO CONFIRM LEVEL OF EXISTING WATER AT CONNECTION POINT. IF EXISTING WATER PIPE IS NOT TO WATER CORPORATION STANDARD DEPTH CONTRACTOR SHALL NOTIFY SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.

MAINS AND SERVICES

2.1. CONSTRUCT MAINS OF:

100P-16	-	315.7m
150P-16	-	245.1m
VALVES	-	5
HYDRANT	-	5

2.2. CONSTRUCT SERVICES OF:

SHORT SINGLE	-	4
SHORT DUAL	-	11
LONG SINGLE	-	3
LONG DUAL	-	8
DEFERRED SERVICE	-	0
TOTAL LOTS SERVED	-	45

DEFERRED SERVICE

LEGEND

- PROPOSED WATER MAIN LAYOUT, MAIN SIZE AND TYPE
- EXISTING WATER MAIN LAYOUT, MAIN SIZE AND TYPE
- FUTURE WATER MAIN LAYOUT, MAIN SIZE AND TYPE
- SERVICE CROSSING COMPLETE
- PROPOSED HYDRANT
- PROPOSED SLUICE VALVE
- CHANGE IN PIPE SIZE
- BLANK END AND FLUSHING POINT
- SERVICE LOCATION
- DEFERRED SERVICE
- PROPOSED/EXISTING/FUTURE RETAINING WALL
- RETICULATION AREA BOUNDARY
- LOTS SERVICED IN THIS STAGE BUT RELEASED IN FUTURE STAGE
- LOTS SERVICED IN PREVIOUS STAGE AND RELEASED IN THIS STAGE
- PROPOSED ROAD
- EXISTING ROAD

THIS PLAN IS ACCEPTED AS BEING IN ACCORDANCE WITH THE ENDORSED CONCEPT PLAN:

0071-100-001-01A

COMPLIANCE WITH THE RELEVANT DESIGN STANDARDS AND MANUALS REMAINS THE RESPONSIBILITY OF THE DESIGN ENGINEER.

NO WORKS ARE TO COMMENCE ON SITE UNTIL START-UP MEETING REQUIREMENTS HAVE BEEN MADE WITH THE RELEVANT ASSET INSPECTOR. REFER TO THE DEVELOPERS' MANUAL FOR CONTACT DETAILS.

FOR MANAGER, DEVELOPMENT SERVICES

OR32-103-001-01B

SHIRE OF AUGUSTA MARGARET RIVER
FILE No. : 187070896

0 5 10 20 30m
SCALE 1:500 @ ORIGINAL SHEET SIZE A1

MATCHLINE A-A REFER DRG C401
PLAN
SCALE 1:500

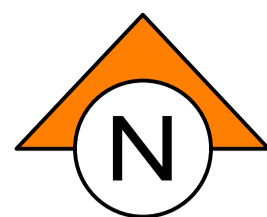
REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
0	16.05.25	LV	BWV	BJW	ISSUED FOR CONSTRUCTION
D	12.05.25	LV	BWV	BJW	AMENDED SUBMISSION FOR APPROVAL. PRECAL REVISED TO REMOVE ROAD 3
C	05.05.25	LV	BWV	BJW	AMENDED SUBMISSION FOR APPROVAL. PRECAL REVISED TO REMOVE ROAD 3
B	24.01.25	LV	BJW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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NOTE
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Certified Quality System to ISO 9001

PROJECT:
**LOT 500 WIRING ROAD
COWARAMUP STAGE 01A**

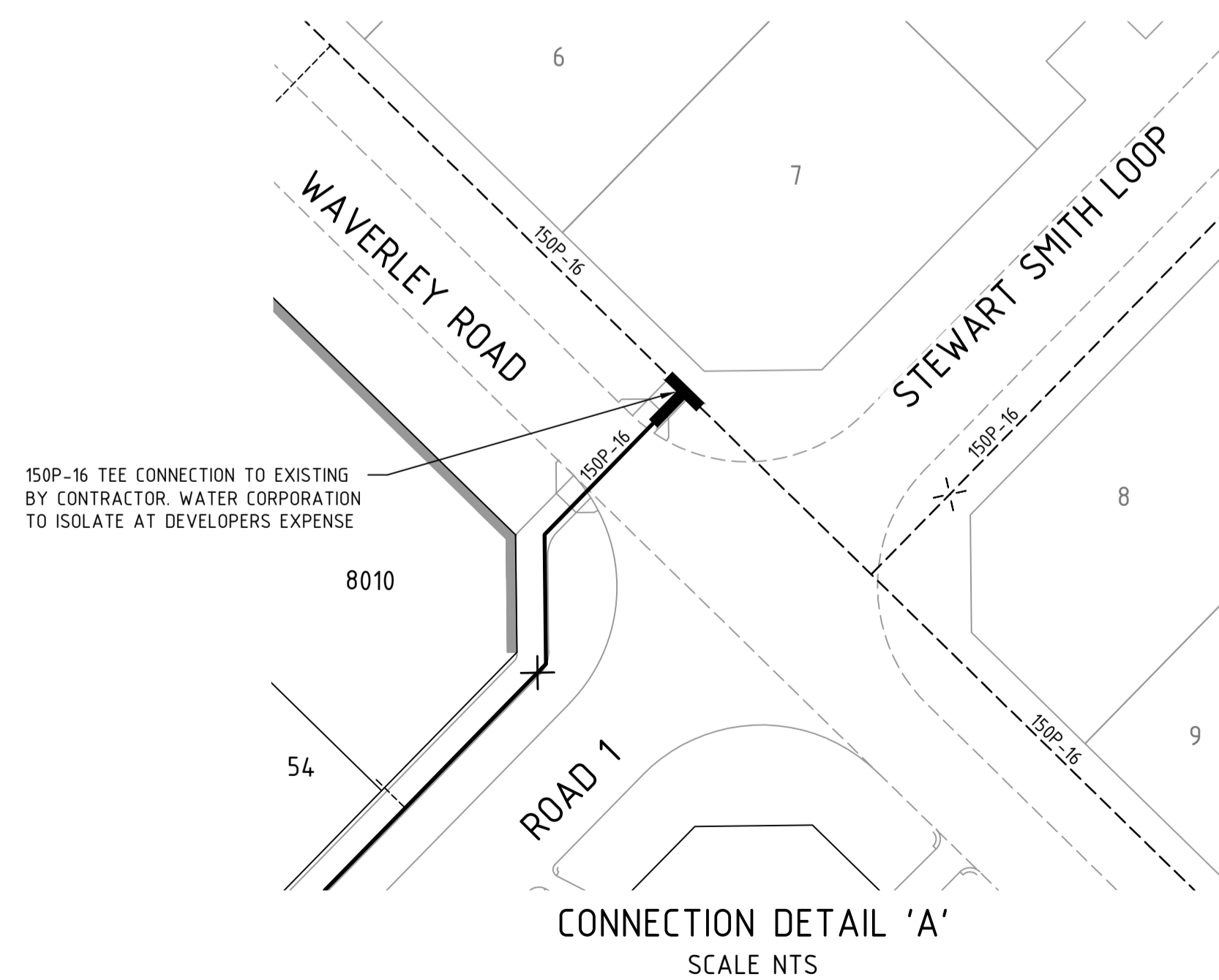
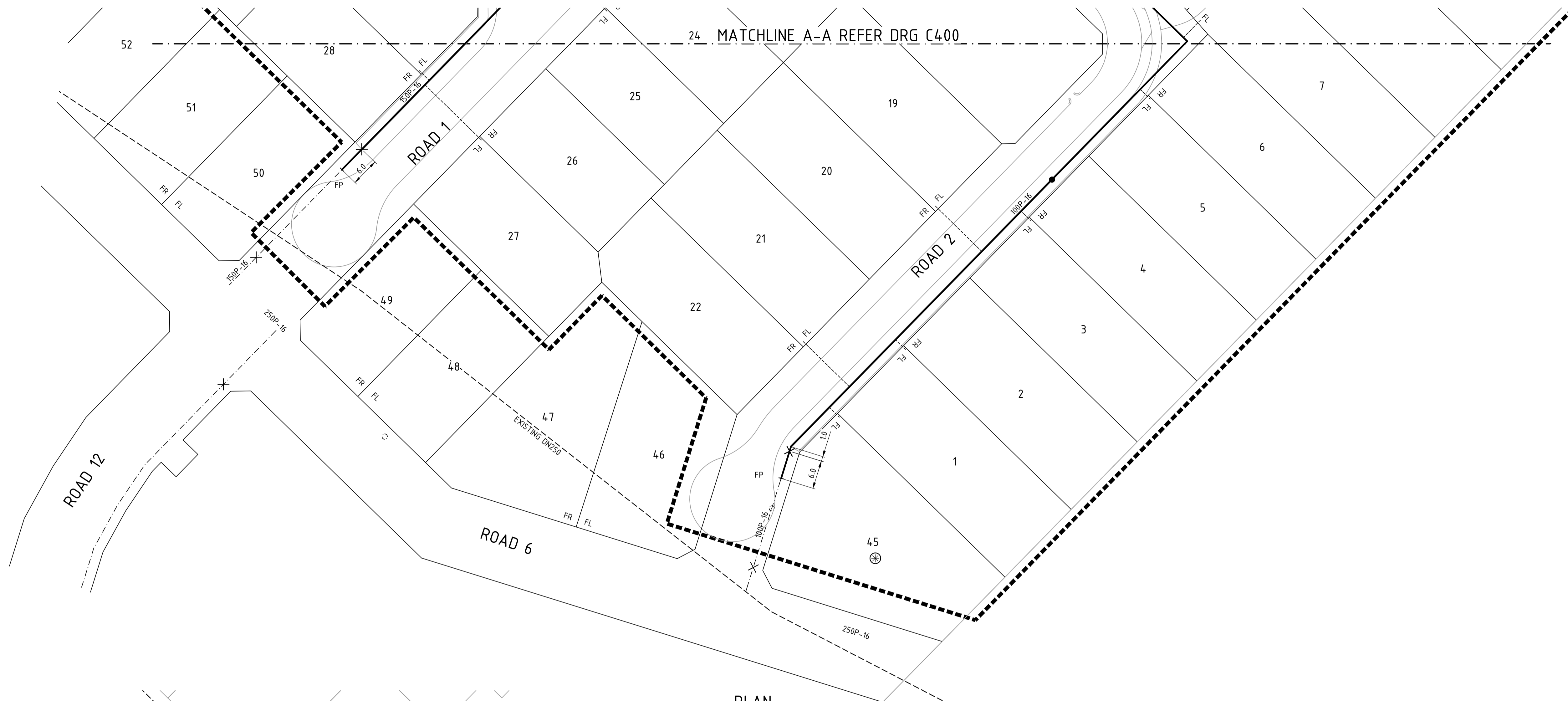
DRAWING TITLE:
**WATER RETICULATION PLAN
SHEET 1**

DRAWN LVU	WAPC No. 200656
DESIGNED LVU	SCALE 1:500
PROJECT MANAGER B. WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRC694
DRAWING No. C400	REVISION 0



NOTES

- 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS
- 2. REFER TO DRAWING JDS242318.01A_C400 FOR NOTES AND LEGEND



0 5 10 20 30m
SCALE 1:500 @ ORIGINAL SHEET SIZE A1

WARNING
BEWARE OF UNDERGROUND SERVICES

BEFORE YOU DIG
www.byda.com.au

The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Work Health and Safety (General) Regulations 2022.

THIS PLAN IS ACCEPTED AS BEING IN ACCORDANCE WITH THE ENDORSED CONCEPT PLAN:
OQ71-100-001-01A

COMPLIANCE WITH THE RELEVANT DESIGN STANDARDS AND MANUALS REMAINS THE RESPONSIBILITY OF THE DESIGN ENGINEER.

NO WORKS ARE TO COMMENCE ON SITE UNTIL START-UP MEETING REQUIREMENTS HAVE BEEN MADE WITH THE RELEVANT ASSET INSPECTOR. REFER TO THE DEVELOPERS' MANUAL FOR CONTACT DETAILS.

FOR MANAGER, DEVELOPMENT SERVICES

OQ32-103-002-01B

SHIRE OF AUGUSTA MARGARET RIVER
FILE No. : 187070896

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
0	16.05.25	LV	BWV	BJW	ISSUED FOR CONSTRUCTION
D	12.05.25	LV	BWV	BJW	AMENDED SUBMISSION FOR APPROVAL. PRECAL REVISED TO REMOVE ROAD 3
C	05.05.25	LV	BWV	BJW	AMENDED SUBMISSION FOR APPROVAL. PRECAL REVISED TO REMOVE ROAD 3
B	24.01.25	LV	BJW	BJW	FINAL SUBMISSION FOR APPROVAL
A	20.12.24	LV	BJW	BJW	INITIAL SUBMISSION FOR APPROVAL

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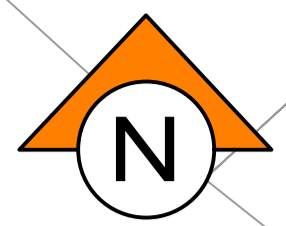
NOTE
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Certified Quality System to ISO 9001



PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

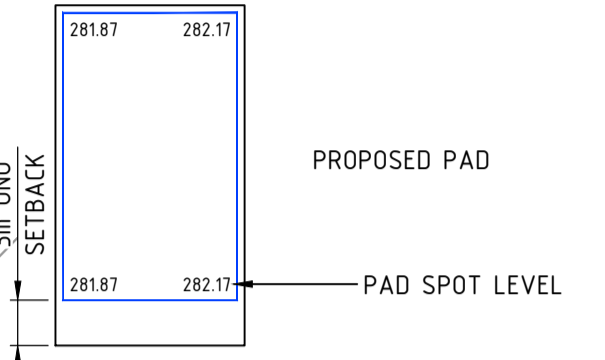
DRAWING TITLE:
WATER RETICULATION PLAN
SHEET 2

DRAWN LVU	WAPC No. 200656
DESIGNED LVU	SCALE @ A1 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. C401	REVISION 0



NOTES
1. LEVELS SHOWN ARE DESIGN ONLY. AS-CONSTRUCTED LEVELS MAY VARY.

- LEGEND**
- LIMIT OF WORKS
 - LOT NUMBER
 - PROPOSED CONTOURS (0.2m INTERVAL)
 - PROPOSED ROAD / PATH
 - PROPOSED RETAINING WALL
 - EXISTING ROAD/TRACK
 - FUTURE ROAD / PATH



SCALE 1:500 @ ORIGINAL SHEET SIZE A1 MATCHLINE A REFER DRG SK101 - SHEET 2

PLAN SCALE 1:500

WARNING
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PRELIMINARY

REV	DATE	DRAWN	CHECKED	APPROVED

Plotted By: cuong Plot Date: 14/03/25 - 12:30 Cad File: C:\12d\data\JDSI-12DSYN\JDS242318_24\1\JDS242318.01\CIVIL\Drawings\Sketches\JDS242318.01_SK100&101.dwg

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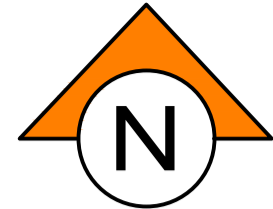


CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

DRAWING TITLE:
LOT EARTHWORKS SPOT LEVELS
SHEET 1

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE @ A1 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. SK100	REVISION A



NOTES

- 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS
- 2. REFER TO DRAWING JDS242318.01A_SK100 FOR NOTES AND LEGEND

MATCHLINE A REFER DRG SK100 - SHEET 1



5.0m BUFFER FOR FUTURE LANDSCAPING (BY OTHERS)

PLAN
SCALE 1:500



WARNING
BEWARE OF UNDERGROUND SERVICES

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PRELIMINARY

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NOTE
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Certified Quality System to ISO 9001



CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01A

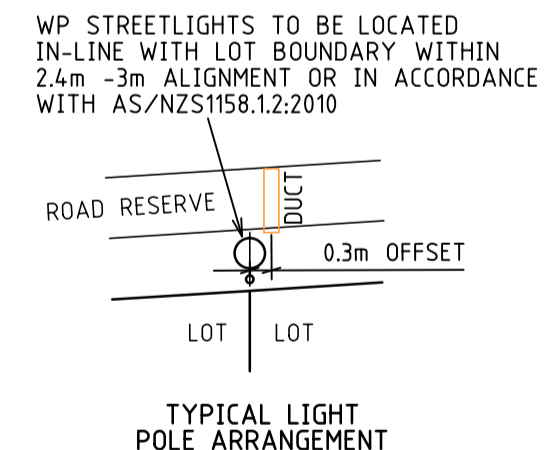
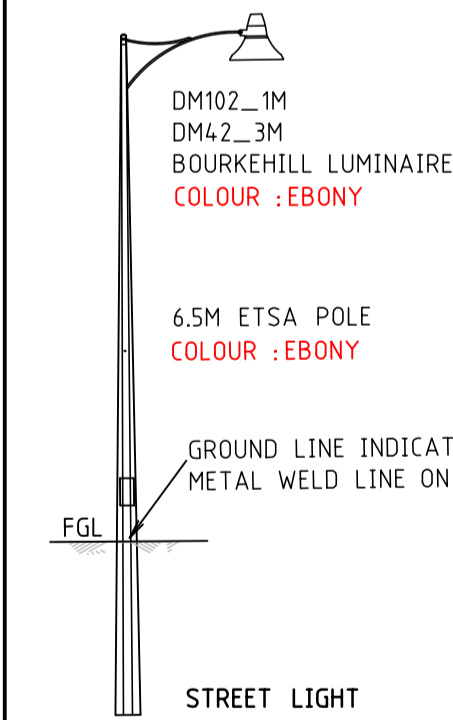
DRAWING TITLE:
LOT EARTHWORKS SPOT LEVELS
SHEET 2

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01A	CO-ORDS MRCG94
DRAWING No. SK101	REVISION A

SAFETY - MAKE IT YOUR PRIMARY VALUE

TRANSFORMER NAME AND LOCATION	CCT NO.	FUSE AMPS	CABLE mm ²	CIRCUIT NAME	VOLT DROP (V)	AMPS (A)	TOTAL AMPS @ 4.7kVA/LOT
NEW TX LOT 8009 WAVERLEY ROAD 315kVA/22kV (410A)	1	315	240	UNI LOT 36 WOORAMEL BLVD	4.38	118	274 A
	2	315	240	UNI LOT 28 WOORAMEL BLVD	3.58	78	
	3	315	240	UNI LOT 13 WOORAMEL BLVD	9.71	137	
	4	315	240	SPARE	-	-	
	5	315	240	SPARE	-	-	

TRANSFORMER NAME AND LOCATION	CCT NO.	FUSE AMPS	CABLE mm ²	CIRCUIT NAME	VOLT DROP (V)	AMPS (A)	TOTAL AMPS @ 4.7kVA/LOT
EXIST TX LOT 9507 WAVERLEY ROAD 315kVA/22kV (410A)	1	315	240	EXIST	1.23	59	274 A
	2	315	240	EXIST	6.81	157	
	3	315	240	EXIST	4.37	118	
	4	315	240	-	-	-	
	5	315	240	-	-	-	

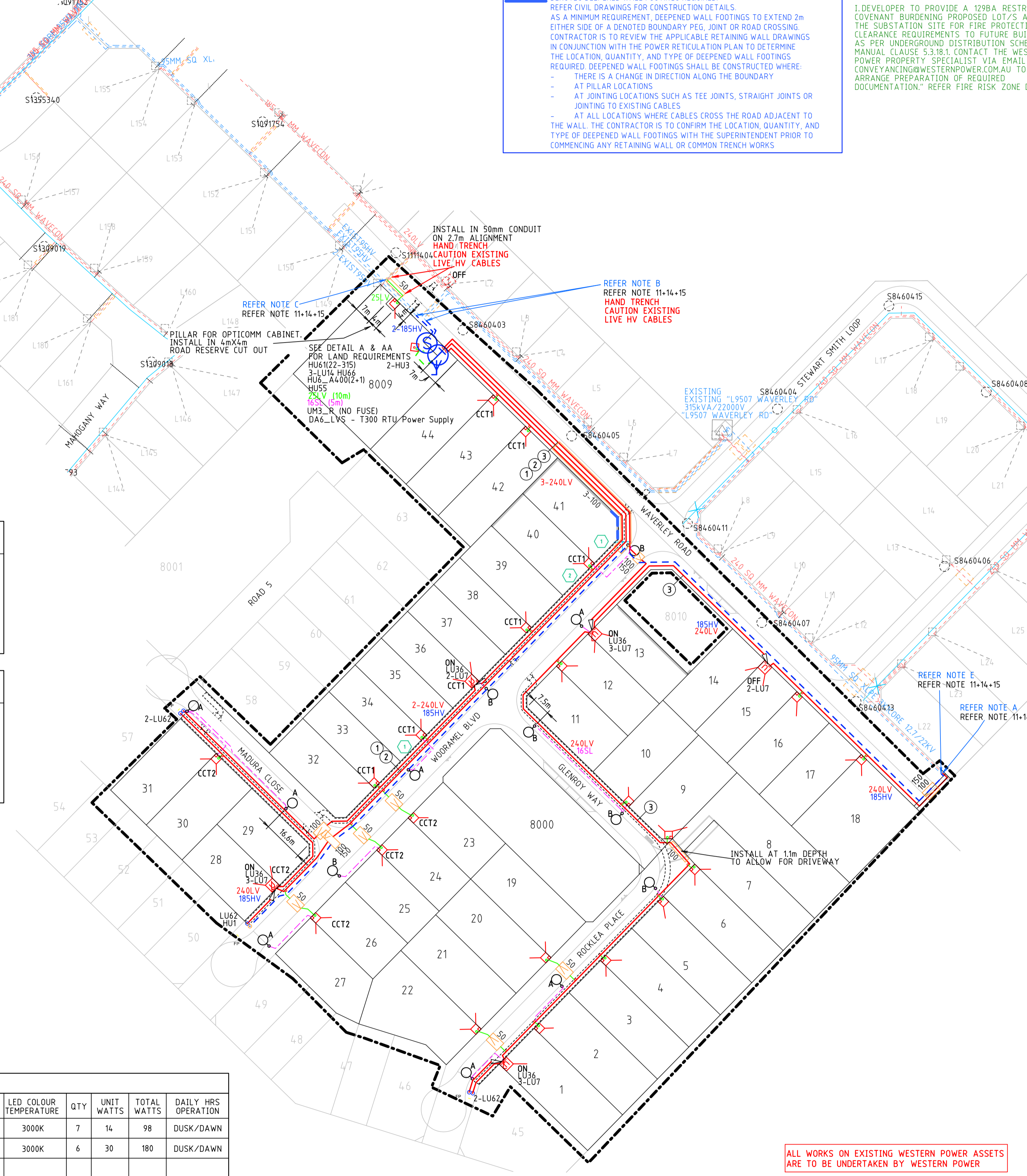


STREET LIGHTING SCHEDULE								
POLE TYPE	OUTREACH	LUMINAIRE/WATTAGE	COLOUR	LED COLOUR TEMPERATURE	QTY	UNIT WATTS	TOTAL WATTS	DAILY HRS OPERATION
ⓐ DM4_1 - 6.5 ETSA POLE	1.5m SOR	DM102_1M BOURKE HILL LED	EBONY	3000K	7	14	98	DUSK/DAWN
ⓑ DM4_1 - 6.5 ETSA POLE	1.5m SOR	DM4_2_3M BOURKE HILL LED	EBONY	3000K	6	30	180	DUSK/DAWN
						TOTAL	278	

REV	DESCRIPTION	DATE	DRAWN	CHKD	SENT WP	DCR WP
5	ISSUED FOR CONSTRUCTION	20-10-25	BT	ML	-	-
4	ADDITIONAL CONDUITS ADDED TO THE SUBSTATION SITE	04-09-25	KH	ML	04-09-25	16-10-25
3	RESUBMITTED TO WP FOR DCR	13-08-25	KH	ML	13-08-25	-
2	35 HV CABLES REMOVED & 185 HV CABLES REROUTED	08-08-25	KH	ML	-	-
1	SUBMITTED TO WP FOR DCR	28-05-25	KH	ML	25-06-25	-

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GEO REFERENCE 33° 51' 18"S, 115° 06' 38"E



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NOTES:
 1. DEVELOPER TO PROVIDE A 129BA RESTRICTIVE COVENANT BURDENING PROPOSED LOT/S AROUND THE SUBSTATION SITE FOR FIRE PROTECTION CLEARANCE REQUIREMENTS TO FUTURE BUILDINGS AS PER UNDERGROUND DISTRIBUTION SCHEMES MANUAL CLAUSE 5.3.18.1. CONTACT THE WESTERN POWER PROPERTY SPECIALIST VIA EMAIL AT CONVEYANCING@WESTERNPOWER.COM.AU TO ARRANGE PREPARATION OF REQUIREMENTS DOCUMENTATION. REFER RISK ZONE DETAIL.

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LEGEND	
SCHEME BDY.	--- (Dashed line)
RETAINING WALL	--- (Thick dashed line)
RESTRICTED ZONE	--- (Thick solid line)
EASEMENT	--- (Thin solid line)
HV CABLES	
CN53 - 400mm ² (3X1k)	--- (Blue dashed)
CN49 - 240mm ² (3X1k)	--- (Red dashed)
CN48 - 185mm ² (3X1k)	--- (Green dashed)
CN50 - 95mm ² (3X1k)	--- (Yellow dashed)
CN51 - 50mm ² (3X1k)	--- (Cyan dashed)
CN5 - 50mm ² (1c)	--- (Blue solid)
CN46 - 35mm ² (3X1k)	--- (Red solid)
CN47 - 35mm ² (1c)	--- (Green solid)
EXISTING HV CABLES (SIZE AND TYPE INDICATED)	
CN45 - 240mm ² (1c/3c)	--- (Blue solid)
CN4 - 95mm ² (1c/3c)	--- (Red solid)
CN43 - 120mm ² (1c/3c)	--- (Green solid)
CN42 - 25mm ² (1c/3c)	--- (Yellow solid)
CN41 - 16mm ² SL (1c)	--- (Cyan solid)
EXISTING LV CABLES (SIZE AND TYPE INDICATED)	
40 C PILOT	--- (Black solid)
STREET LIGHTS	
EXISTING	○ (Circle with dot)
POLE BRACKET	○ (Circle)
SINGLE OUTREACH	○ (Circle with line)
DOUBLE OUTREACH	○ (Circle with lines)
4-WAY	○ (Circle with cross)
* ALPHA CHARACTER DENOTES STREET LIGHT TYPE. REFER STREET LIGHT SCHEDULE FOR POLE & LUMINAIRE DETAILS.	
MINI (WORKING END)	□ (Square)
UNIVERSAL	□ (Square)
LINK	□ (Square)
CABLE MARKER U/G	△ (Triangle)
Serviced Uncleared De-energised Lot	■ (Square)
CONDUIT / POLY PIPE	--- (Dashed line)
TRANSFORMER EXISTING SWITCHGEAR	
TRANSFORMER	⊕ (Circle with cross)
EXISTING	⊖ (Circle with dot)
SWITCHGEAR	⊙ (Circle with center dot)
AERIAL CONDUCTORS AND POLES	
NEW POLE (ANY TYPE AS INDICATED)	○ (Circle)
EXISTING POLE (ANY TYPE AS INDICATED)	○ (Circle with dot)
HV	○ (Circle with dot)
LV	○ (Circle)
EXISTING AERIAL CONDUCTORS (SIZE AND TYPE INDICATED)	--- (Dashed line)

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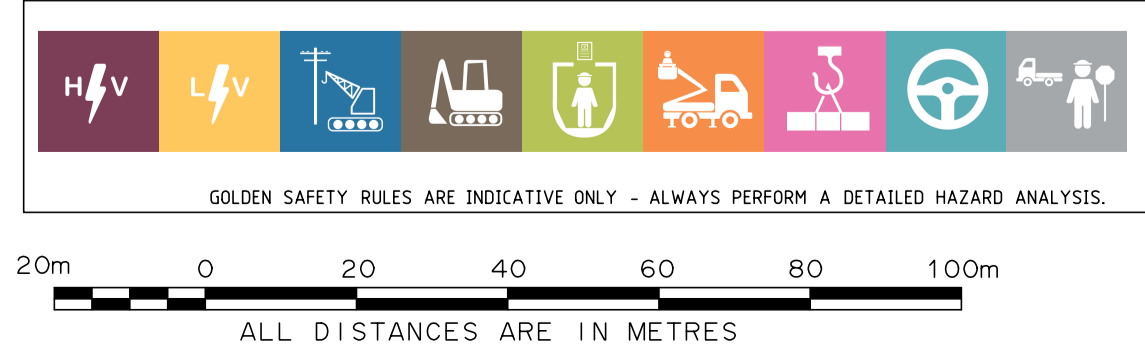
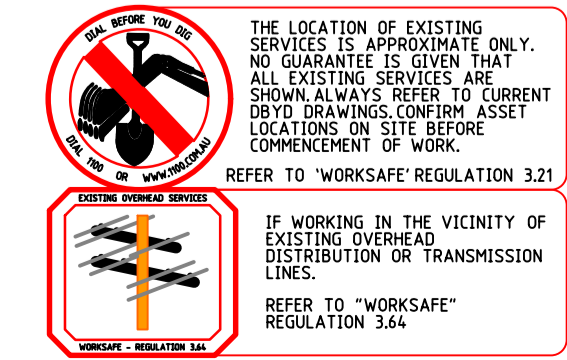
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ISSUED FOR CONSTRUCTION

CONTRACTOR TO REFER TO ALL NOTES AND DETAILS ON PLAN SHEETS FOR INSTALLATION REQUIREMENTS

ALL WORKS ON EXISTING WESTERN POWER ASSETS ARE TO BE UNDERTAKEN BY WESTERN POWER

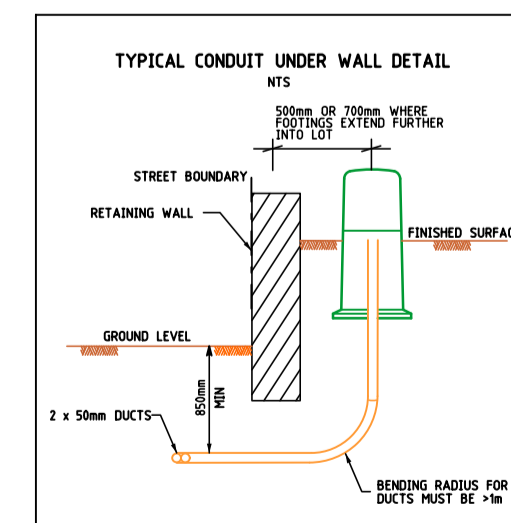
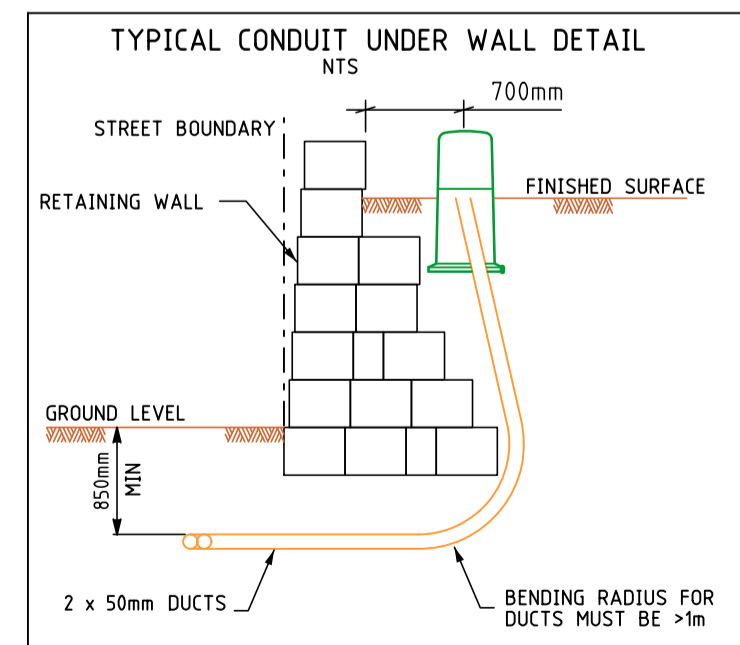
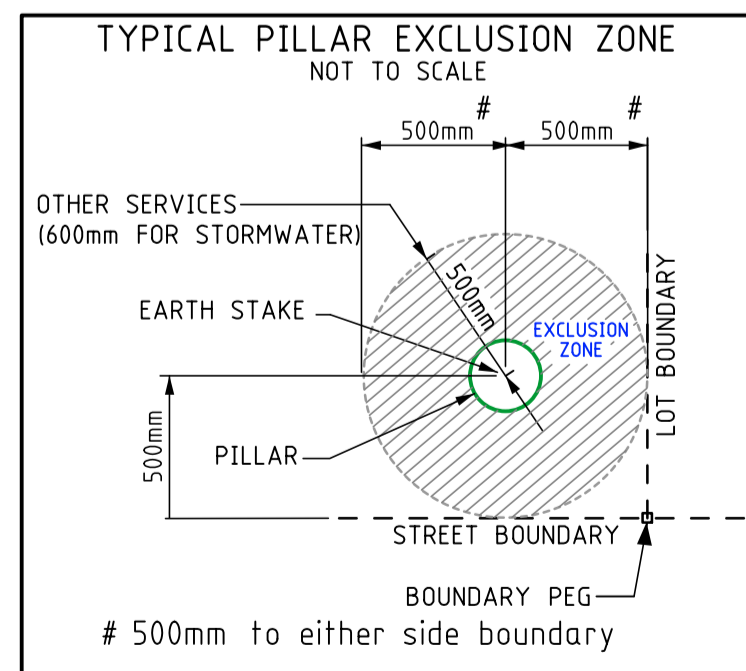
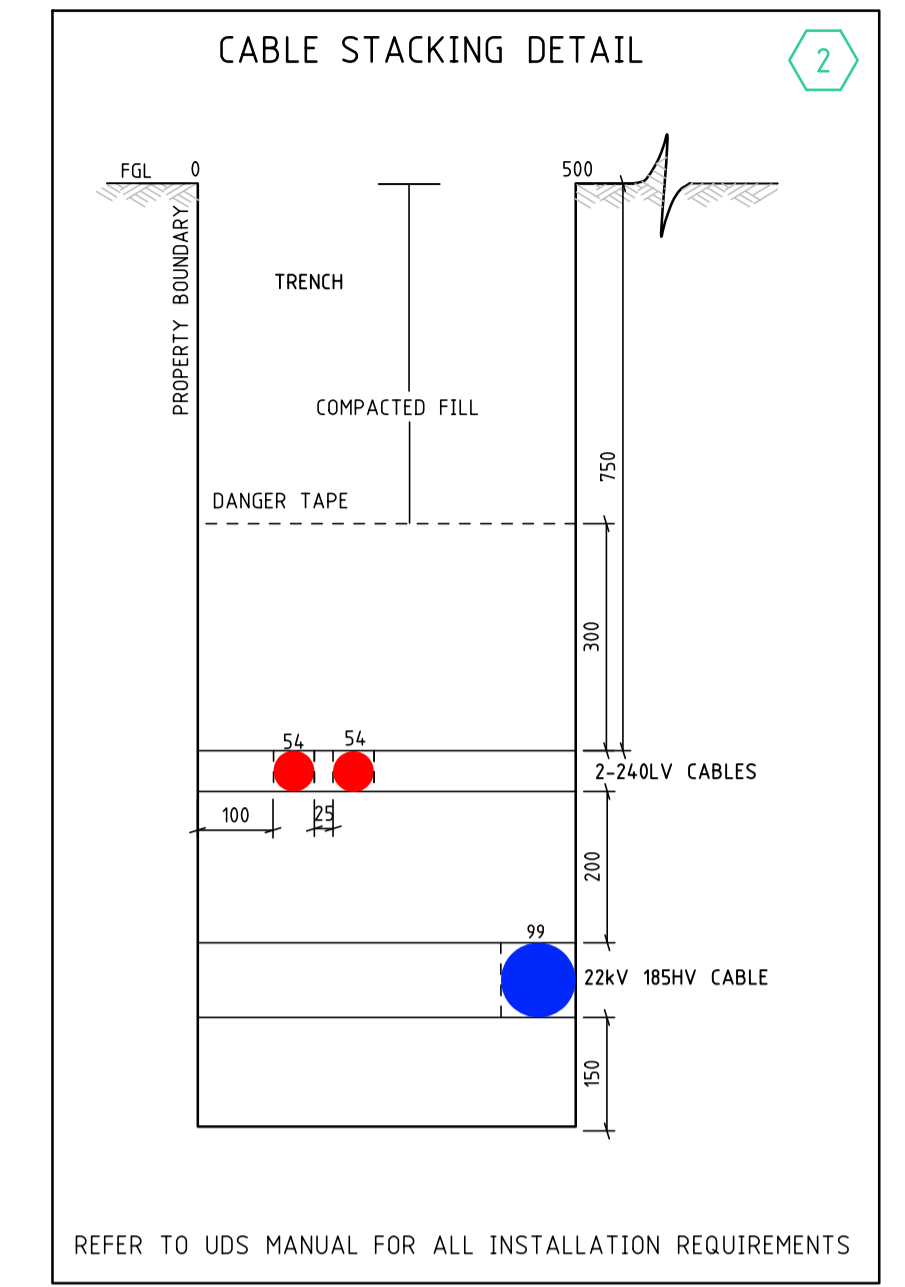
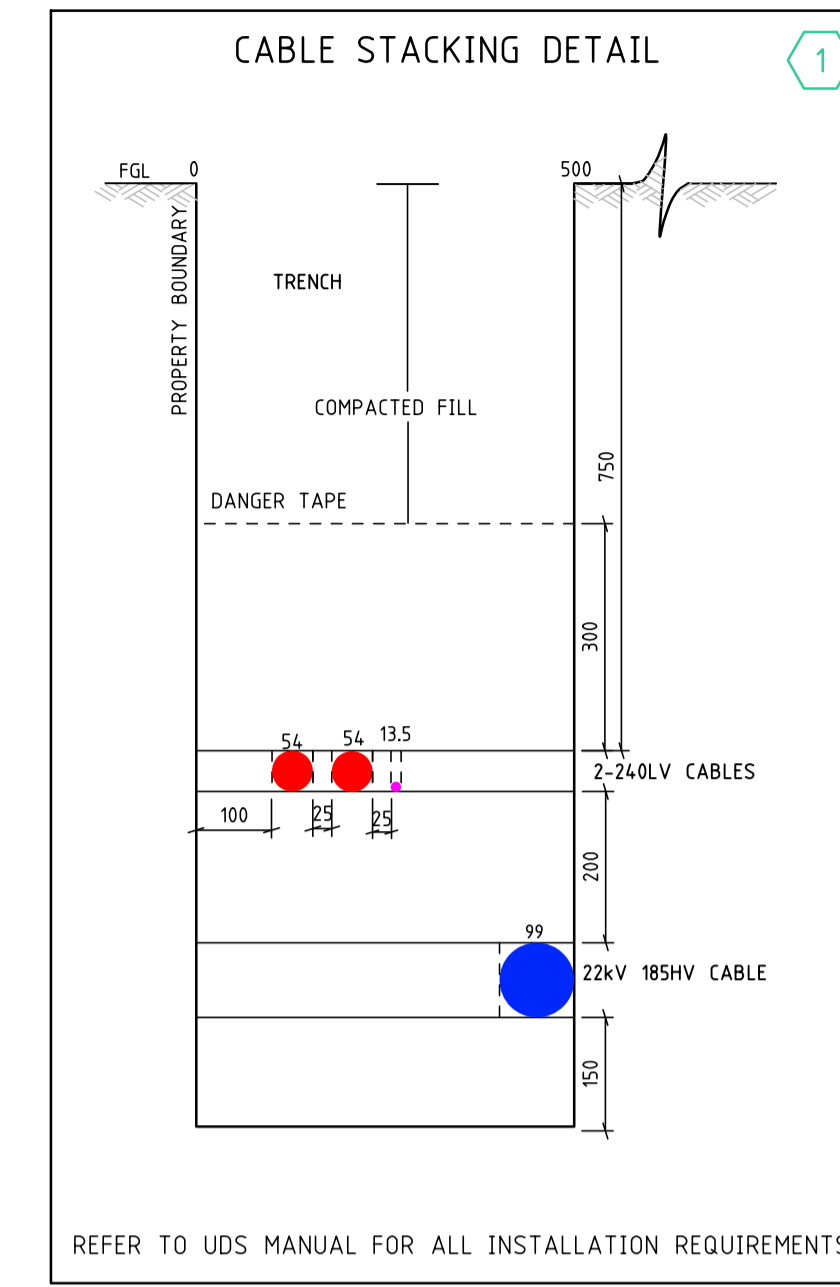
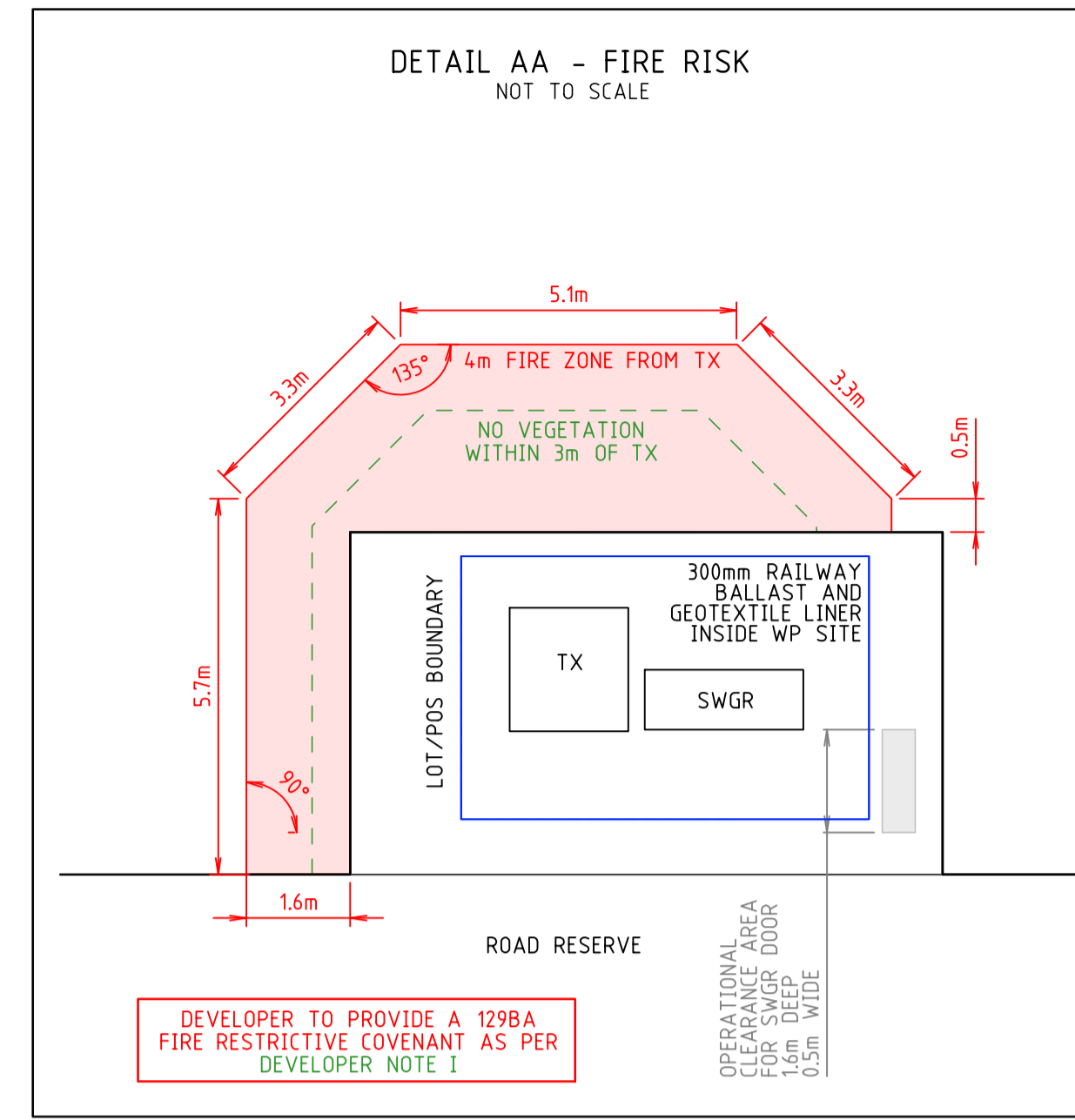
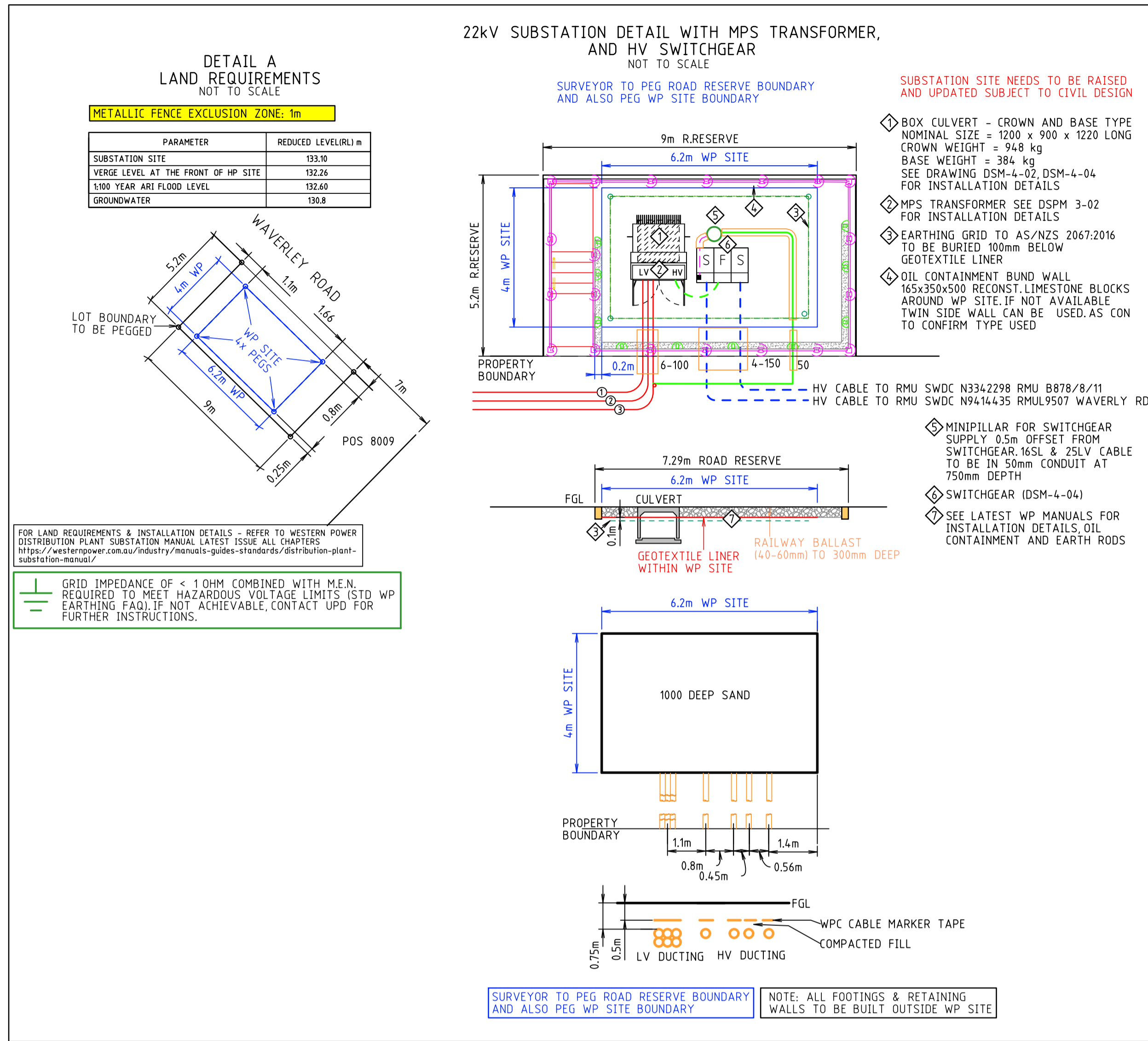
INSTRUCTION TO CONSTRUCTION CREWS
 IT IS A REQUIREMENT OF WESTERN POWER THAT ALL EXISTING CABLE SIZES ARE CONFIRMED ON SITE TO ENSURE THAT ALL FITTINGS ARE OF THE APPROPRIATE SIZE AND ARE INSTALLED CORRECTLY IN ACCORDANCE TO THE DISTRIBUTION CONSTRUCTION STANDARDS HANDBOOK.
 CONTRACTORS TO REFER TO THE WHOLE OF DRAWING INCLUDING NOTES, DETAILS AND ALL SHEETS.



LOT 500 WIRING RD - STAGE 1
 COWARAMUP
 SHEET 1 OF 2

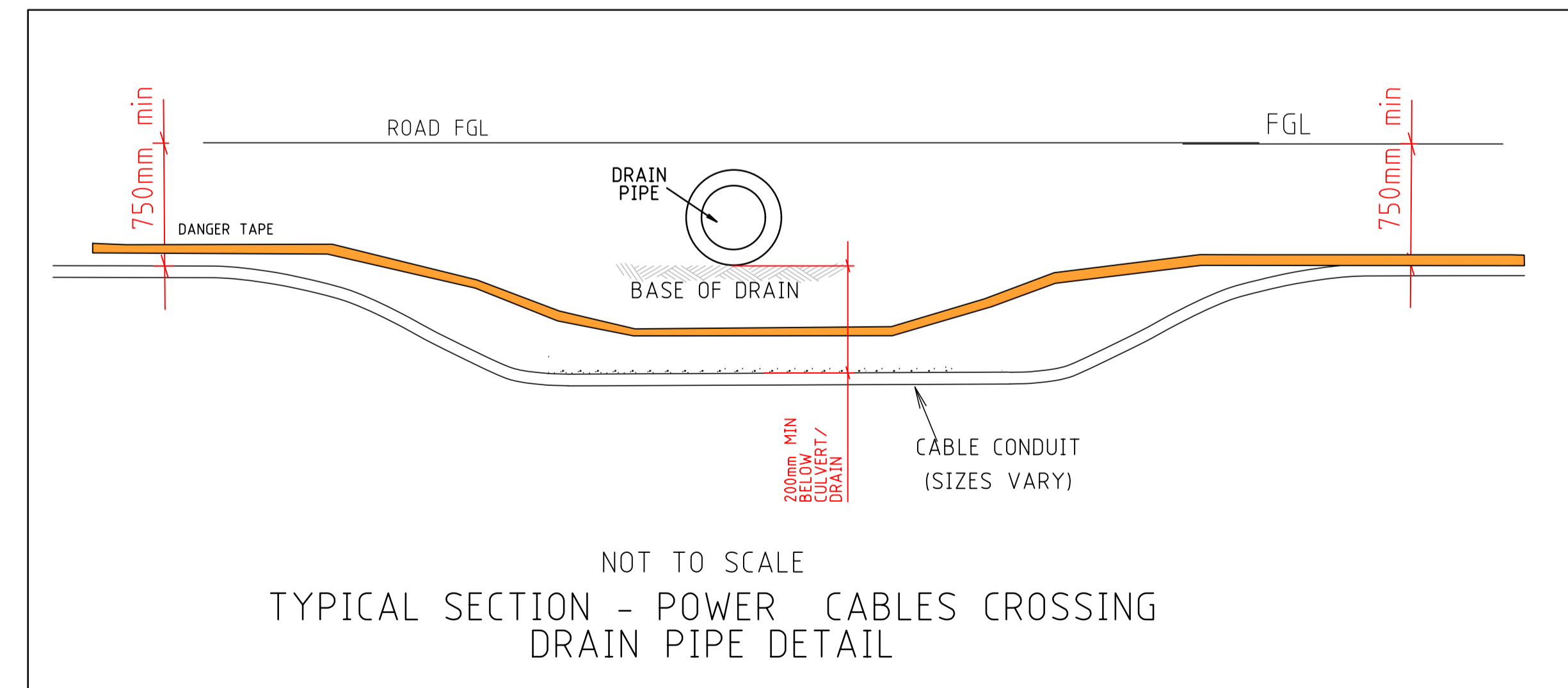
44 RESIDENTIAL LOTS
 UNDERGROUND POWER DISTRIBUTION

DESIGNER	DRAWN	MF	SCALE	1:1000	Western Power Reference No	SS012084	Drawing No	UPD10068-01	Revision	5
ML	NER ENGINEER	PB			WAPC No	NA				



ISSUED FOR CONSTRUCTION

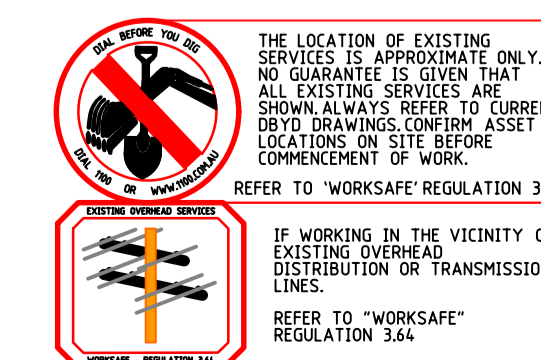
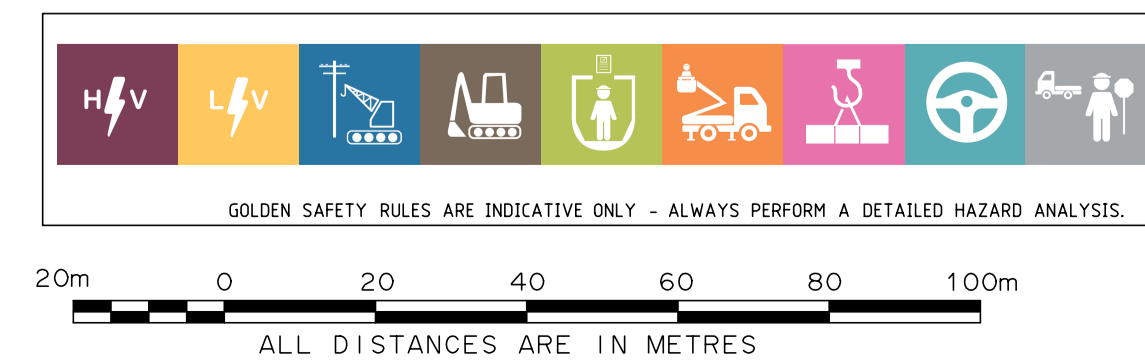
CONTRACTOR TO REFER TO ALL NOTES AND DETAILS ON PLAN SHEETS FOR INSTALLATION REQUIREMENTS



REV	DESCRIPTION	DATE	DRAWN	CHKD	SENT WP	DCR WP
5	ISSUED FOR CONSTRUCTION	20-10-25	BT	ML	-	-
4	ADDITIONAL CONDUITS ADDED TO THE SUBSTATION SITE	04-09-25	KH	ML	04-09-25	16-10-25
3	RESUBMITTED TO WP FOR DCR	13-08-25	KH	ML	13-08-25	-
2	35 HV CABLES REMOVED & 185 HV CABLES REROUTED	08-08-25	KH	ML	-	-
1	SUBMITTED TO WP FOR DCR	28-05-25	KH	ML	25-06-25	-

GEO REFERENCE 33° 51' 18"S, 115° 06' 38"E

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LOT 500 WIRING RD - STAGE 1
COWARAMUP
SHEET 2 OF 2

44 RESIDENTIAL LOTS
UNDERGROUND POWER DISTRIBUTION

DESIGNER ML DRAWN MF NER ENGINEER PB SCALE 1:1000

Western Power Reference No SS012084 WAPC No -

Drawing No UPD10068-01 Revision 5

Suite 4, 47 Havelock Street WEST PERTH WA 6005 ABN 53 084 593 067 TEL (08) 9212 8777 EMAIL admin@upd.com.au

NOTE:

- ALL PIT AND PIPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH COMM'S ALLIANCE - G645-2017
- ALL PIT LIDS ARE TO BE BRANDED AS "COMMUNICATIONS" ONLY.
- ALL LEAD-IN CONDUITS MUST HAVE DRAWSTRINGS INSTALLED.
- ALL DISTRIBUTION CONDUITS MUST BE ROPED.
- ALL LEAD-IN CONDUIT DRAWSTRINGS MUST BE LABELED WITH THE LOT/UNIT NUMBER.
- ALL CONDUITS MUST ONLY ENTER THE END WALL OF THE PITS AND INSTALLED TO CORRECT DEPTH.
- ALL CONDUITS MUST HAVE BUSHES INSTALLED AND FLUSH WITH THE PIT WALLS.
- PLEASE ARRANGE AN ONSITE INSPECTION OF THE PIT AND PIPE INFRASTRUCTURE AND OBTAIN OPTICOMM APPROVAL.
- ALL PITS TO BE INSTALLED TO FINISHED GROUND LEVELS
- THE DEVELOPER/INSTALLATION CONTRACTOR MUST SUPPLY OPTICOMM WITH DATED, SIGNED, AND REDLINED AS-BUILT OF THIS DESIGN DRAWING THAT INCLUDE CONDUIT LENGTHS AND PIT LOCATIONS AFTER THE INSTALLATION IS COMPLETED, IN ACCORDANCE WITH COMM'S ALLIANCE - G645-2017.

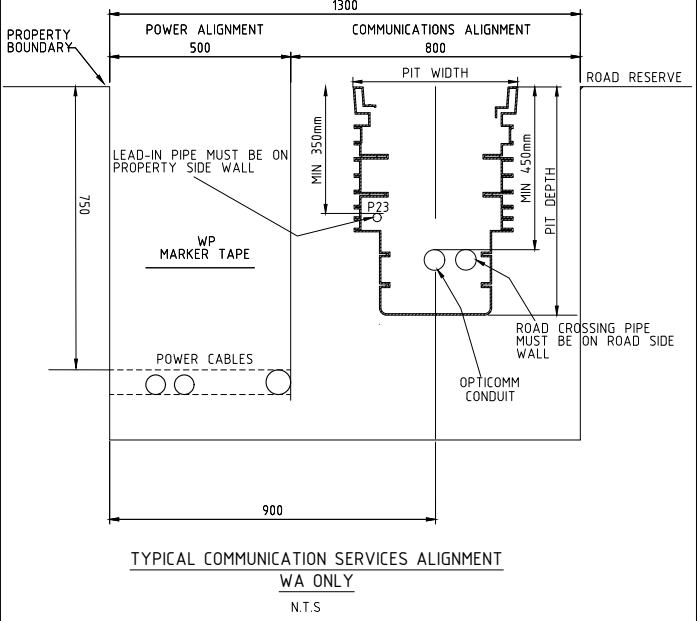
Typical OptiComm Clearance from other Underground Utility & Carrier Services

Underground Plant Item	Minimum Radial Clearance from Underground Telecommunications Cable in mm (Notes 1, 4)
Gas Pipe	
Large Main (Over 110 mm diameter)	300
Small Main (75 mm diameter or less)	150
Power Line and Service Lines	
HV	300 (Note 2)
LV	100 (Note 3)
Water Main	
High Capacity Main	300
Local Retification	150
Sewer	
Mains	300
Connections to Mains	150 (Note 3)
Other Carriers' Telecommunication Cables	100

NOTES:

- Lesser separations may be used where all the parties involved concur.
- Where protective covering/barriers have not been provided over HV Power Lines, a minimum separation should be 450 mm.
- LV Customer Leads and Service Lines housed in appropriately coloured pipes may share a common trench or bore on private property and under roadways without specified separation.
- Telecommunication Cable includes non-conductive or passive communication cables such as self-supporting fibre optic cable.

Pit and Pipe installation to conform with G645:2017 & C524:2013 as well as relevant local state and territory standards where practical.



BILL OF MATERIAL

BIRDWOOD COWARAMUP - STAGE 1

TOTAL No OF LOTS :45

NUMBER OF EXISTING LEAD-INS INSIDE OF STAGE BOUNDARY	: 0	NUMBER OF LEAD-INS CONSTRUCTED OUTSIDE OF STAGE BOUNDARY	: 0
------------------------------------------------------	-----	----------------------------------------------------------	-----

PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
PROPOSED	ACTUAL	PROPOSED	ACTUAL	PROPOSED
2	5	2xP50	2	12.0
5	17	P50	29	1055.0
6	4	P23	45	243.0
8	0	P100	0	
TOTAL NUMBER OF PITS:		26		
TOTAL NUMBER OF CONDUITS:		76		
TOTAL LENGTH OF CONDUITS:		1310.0		
TOTAL LENGTH OF DUCT ROPE (2XP50, P50, P100):		1121.0		

CONDUIT-PLUGS

ITEM	SIZE	QTY
PROPOSED	ACTUAL	
CONDUIT BUSH	P100	0
CONDUIT BUSH	P50	58
CONDUIT BUSH	P23	45
TOTAL CONDUIT BUSHES		103
TOTAL CONDUIT NUMBER OF END CAPS:		6

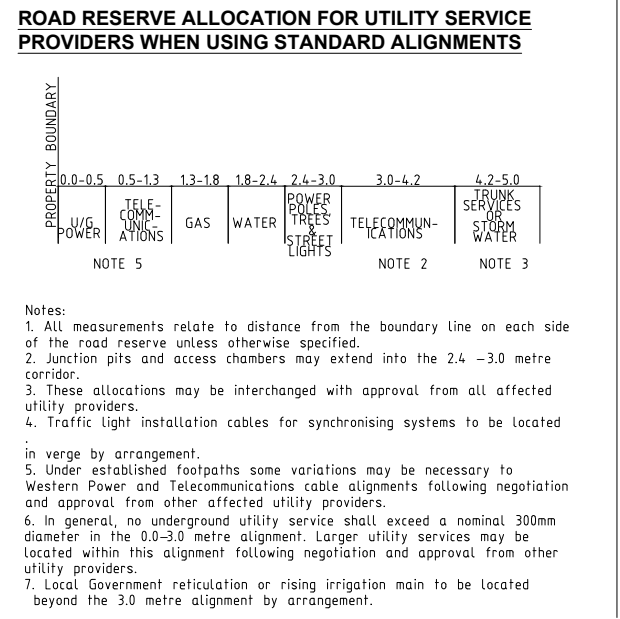
CONDUIT - BENDS

ITEM	SIZE	QTY
PROPOSED	ACTUAL	
CONDUIT BENDS	2xP50	2
CONDUIT BENDS	P50	71
CONDUIT BENDS	P23	45
TOTAL CONDUIT NUMBER OF BENDS:		118

AS BUILT USE ONLY

CONSTRUCTION COMPANY:
START DAY OF CONSTRUCTION:
END DAY OF CONSTRUCTION:

NOTE: PIT SYMBOLS ARE NOT 1:1 SCALE



FOR CONSTRUCTION

OPTICOMM Networks

Built on better™

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IT SHALL NOT BE SCALED. DUE TO THE SCHEMATIC NATURE OF THIS DRAWING.
EXACT LOCATION OF ALL PLANT SHALL BE CO-ORDINATED AND VERIFIED ON SITE.

OPTICOMM PROJECT MANAGER : MARCUS DEVITT
CONTACT NUMBER : 0457 090 474
EMAIL : MDEVITT@OPTICOMM.COM.AU

WARNING
BWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND CABLES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE CHECKED ON SITE. LOCATE ALL UNDERGROUND SERVICES AND CABLES BEFORE COMMENCEMENT OF WORK.

DIAL 1100 BEFORE YOU DIG

REV	DATE	DESIGN	DESCRIPTION	CHECKED	APPROVED
3	17-09-25	E.G. UPD	CIVIL DESIGN AMENDED TO MATCH UPDATED POWER DESIGN	S.H.	N.V.
2	14-07-25	E.G. (UPD)	CIVIL DESIGN AMENDED TO MATCH UPDATED POWER DESIGN	S.H.	N.V.
1	26-03-25	E.G. (UPD)	CIVIL DESIGN ISSUED FOR CONSTRUCTION	T.B.	N.V.

Drawing Identification
YKCW-0001

STATE: WA REGION: COWARAMUP

DRAWING TITLE:
BIRDWOOD COWARAMUP
STAGE 1
CIVIL / FTTH NETWORK
KEY PLAN

SCALE: NTS SHEET No. OF 3 REV. 3

LEGEND:

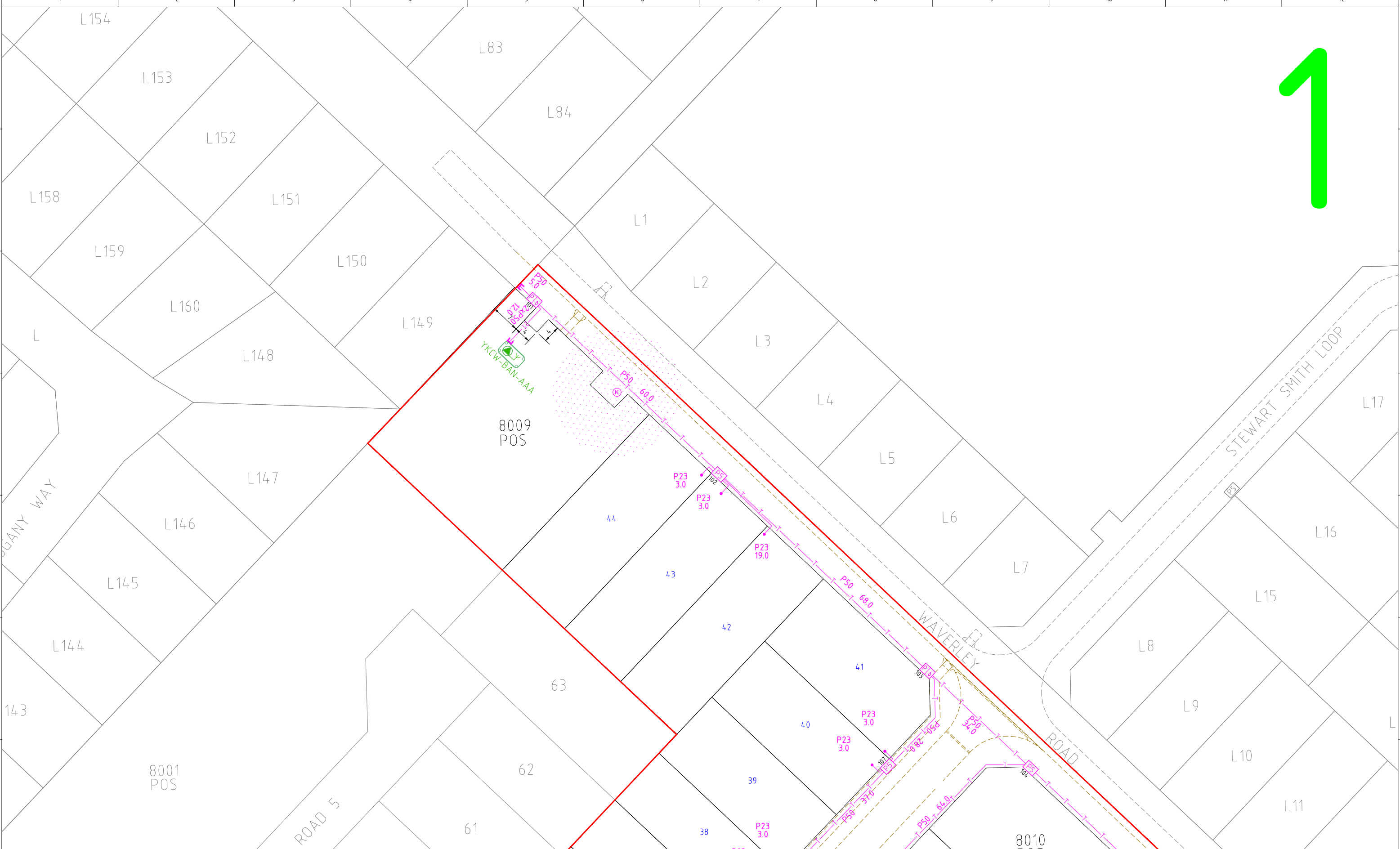
- 1 x 100mm (Ø) Telecommunication Pipe
- 2 x 100mm (Ø) Telecommunication Pipe
- 3 x 100mm (Ø) Telecommunication Pipe
- 4 x 100mm (Ø) Telecommunication Pipe
- 5 x 100mm (Ø) Telecommunication Pipe
- 2 x 50mm (Ø) Telecommunication Pipe
- 1 x 50mm (Ø) Telecommunication Pipe

CONDUIT CONFIGURATION:

- CONDUIT SIZE: P100, P50, P23
- CONDUIT LENGTH: [Symbol]
- CONDUIT QUANTITY: [Symbol]

NAP CONFIGURATION:

- NAP DESIGNATION: [Symbol]
- CONDUIT DESIGNATION: [Symbol]



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CONDUIT CONFIGURATION

- CONDUIT SIZE
- CONDUIT QUANTITY
- CONDUIT LENGTH

NAP CONFIGURATION

- NAP DESIGNATION
- FDH DESIGNATION

Legend:

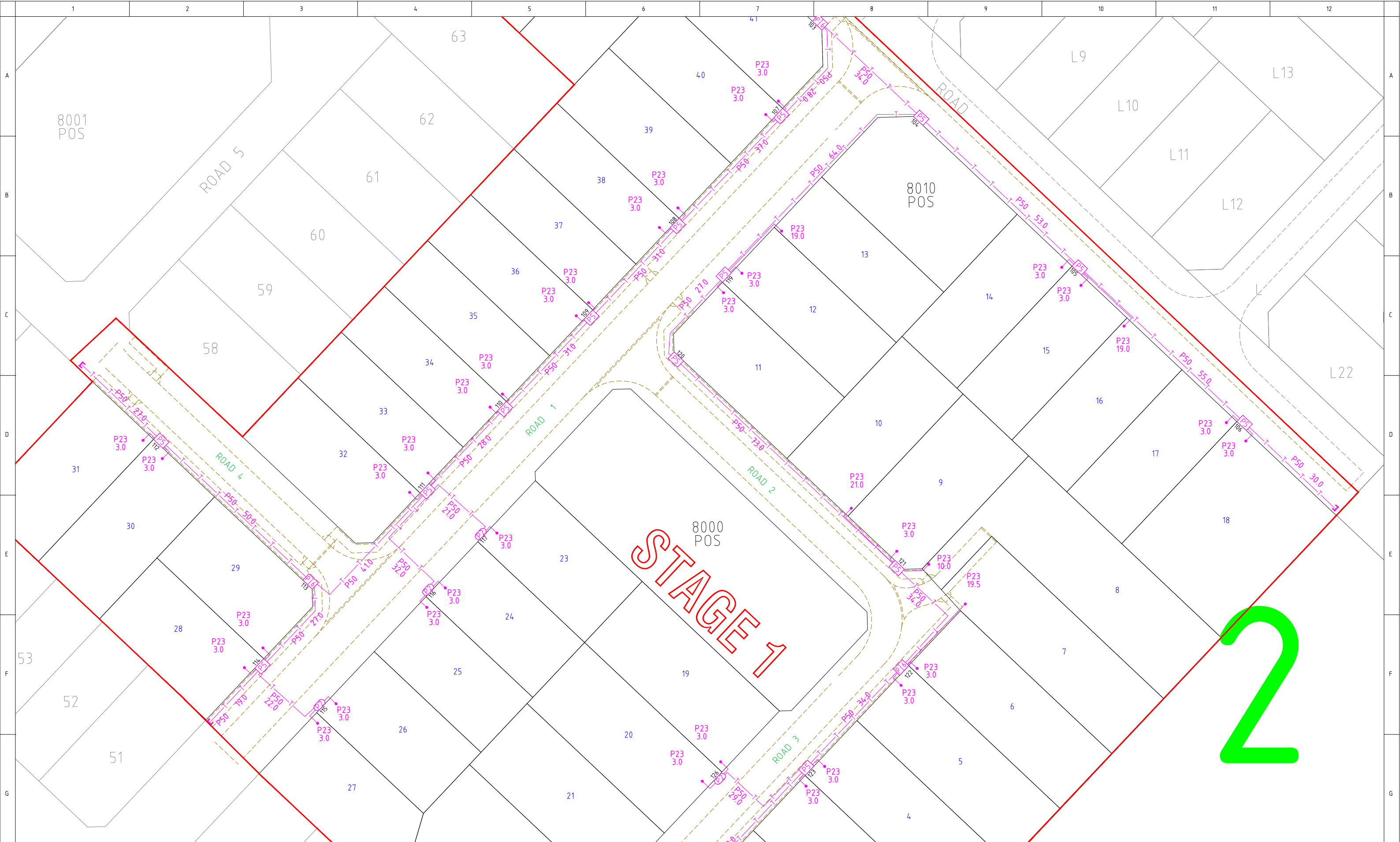
- P23: 1 x 100mm (Ø) Telecommunication Pipe
- P50: 2 x 100mm (Ø) Telecommunication Pipe
- P50: 3 x 100mm (Ø) Telecommunication Pipe
- P50: 4 x 100mm (Ø) Telecommunication Pipe
- P50: 5 x 100mm (Ø) Telecommunication Pipe
- P50: 2 x 50mm (Ø) Telecommunication Pipe
- P50: 1 x 50mm (Ø) Telecommunication Pipe
- 50mm Telecommunication Pipe used as a Protective Sleeve
- Telecommunication Pipe
- Minimum Pipe Bend Radius for 50mm and 100mm
- Telecommunication Pipe = 90mm
- P2 Pit (1,200mm X W355mm X D900mm)
- P5 Pit (1,200mm X W355mm X D900mm)
- P6 Pit (1,190mm X W355mm X D660mm)
- P5 Pit (1,190mm X W450mm X D660mm)
- P2 Pit (1,160mm X W285mm X D595mm)
- Lead-in 20mm Telecommunication Pipe (23mm Internal Diameter)
- Length 1.5m
- 300mm Bend Radius at Pit
- END CAP

Drawing Identification
YKCW-0001

STATE: WA REGION: COWARAMUP

DRAWING TITLE:
**BIRDWOOD COWARAMUP
 STAGE 1
 CIVIL / FTTH NETWORK
 CONSTRUCTION PLAN**

SCALE: NTS SHEET No: 1 OF 3 REV: 3



STAGE 1

2



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OPTICOMM PROJECT MANAGER : MARCUS DEVITT
 CONTACT NUMBER : 0457 090 474
 EMAIL : MDEVITT@OPTICOMM.COM.AU

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 THE LOCATION OF UNDERGROUND CABLES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE CHECKED ON SITE. LOCATE ALL UNDERGROUND SERVICES AND CABLES BEFORE COMMENCEMENT OF WORK.
DIAL 1100 BEFORE YOU DIG

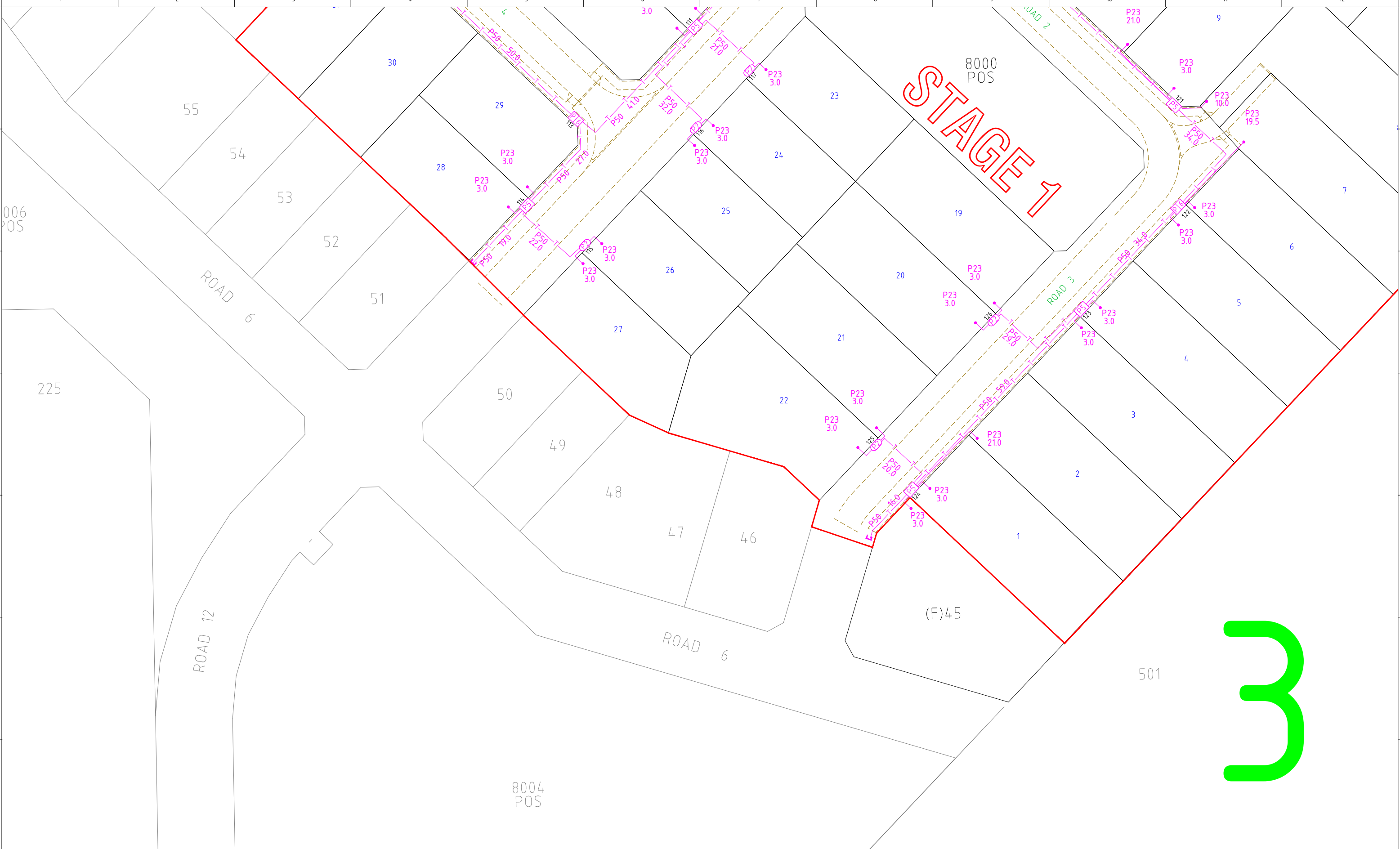
REV	DATE	DESIGN	DESCRIPTION	CHECKED	APPROVED
3	17-09-25	E.G. UPD	CIVIL DESIGN AMENDED TO MATCH UPDATED POWER DESIGN	S.H.	N.V.
2	14-07-25	E.G. (UPD)	CIVIL DESIGN AMENDED TO MATCH UPDATED POWER DESIGN	S.H.	N.V.
1	26-03-25	E.G. (UPD)	CIVIL DESIGN ISSUED FOR CONSTRUCTION	T.B.	N.V.

<ul style="list-style-type: none"> P23 1 x 100mm (Ø) Telecommunication Pipe P23 2 x 100mm (Ø) Telecommunication Pipe P23 3 x 100mm (Ø) Telecommunication Pipe P23 4 x 100mm (Ø) Telecommunication Pipe P23 5 x 100mm (Ø) Telecommunication Pipe P23 2 x 50mm (Ø) Telecommunication Pipe P23 1 x 50mm (Ø) Telecommunication Pipe 50mm Telecommunication Pipe used as a Protective Sleeve Telecommunication Pipe Minimum Pipe Bend Radius for 50mm and 100mm Telecommunication Pipe = 800mm P23 P1 (Ø2040mm X W355mm X D900mm) Telecommunication Pit P23 P2 (Ø1950mm X W355mm X D660mm) Telecommunication Pit P23 P3 (Ø1705mm X W455mm X D660mm) Telecommunication Pit (Single Lid) P23 P4 (Ø1665mm X W285mm X D505mm) Lead in 20mm Telecommunication Pipe (20mm Internal Diameter) Length 1.0m 305mm Bend Radius at Pit END CAP 	<ul style="list-style-type: none"> Electrical Kiosk/Transformer/Switchgear Broadband Aggregation Node (BAN) Fibre Access Node (FAN) Headend Rack (HDR) Fibre Joint Closure (FJC) Fibre Distribution Hub (FDH) Network Access Port 4x (NAP) Connectorised NAP 4-Port OPDC Connectorised NAP 12-Port OPDC Connectorised NAP 12-Port BID PON 1 - WITH SPLICING TRAYS BID PON 2 - NO SPLICING TRAYS ROT - RAPID WALLBOX 	<ul style="list-style-type: none"> FIBRE TRUNK CABLE 24F FIBRE TRUNK CABLE 24F FIBRE TRUNK CABLE 24F NAP TAIL CABLE LEAD-IN ASSEMBLY (LIA)
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CONDUIT CONFIGURATION
 CONDUIT SIZE: [Symbol] CONDUIT QUANTITY: [Symbol] CONDUIT LENGTH: [Symbol]
 CONDUIT SIZE: [Symbol] CONDUIT QUANTITY: [Symbol] CONDUIT LENGTH: [Symbol]

NAP CONFIGURATION
 NAP CONFIGURATION: [Symbol] NAP DESIGNATION: [Symbol]
 NAP CONFIGURATION: [Symbol] NAP DESIGNATION: [Symbol]

Drawing Identification
YKCW-0001
 STATE: WA REGION: COWARAMUP
 DRAWING TITLE:
BIRDWOOD COWARAMUP STAGE 1 CIVIL / FTTH NETWORK CONSTRUCTION PLAN
 SCALE: NTS SHEET No. 2 OF 3 REV. 3



STAGE 1

3



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DIAL 1100 BEFORE YOU DIG

REV	DATE	DESIGN	DESCRIPTION	CHECKED	APPROVED
3	17-09-25	E.G. UPD	CIVIL DESIGN AMENDED TO MATCH UPDATED POWER DESIGN	S.H.	N.V.
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1	26-03-25	E.G. (UPD)	CIVIL DESIGN ISSUED FOR CONSTRUCTION	T.B.	N.V.

<ul style="list-style-type: none"> — P23 — 1 x 100mm (Ø) Telecommunication Pipe — P23 — 2 x 100mm (Ø) Telecommunication Pipe — P23 — 3 x 100mm (Ø) Telecommunication Pipe — P23 — 4 x 100mm (Ø) Telecommunication Pipe — P23 — 5 x 100mm (Ø) Telecommunication Pipe — P23 — 2 x 50mm (Ø) Telecommunication Pipe — P23 — 1 x 50mm (Ø) Telecommunication Pipe — P50 — 50mm Telecommunication Pipe used as a Protective Sleeve — P50 — Telecommunication Pipe — P50 — Minimum Pipe Bend Radius for 50mm and 50mm Telecommunication Pipe = 900mm — P50 — P1 Pit (12040mm X W585mm X D900mm) Telecommunication Pit — P50 — P6 Pit (11900mm X W555mm X D660mm) Telecommunication Pit — P50 — P2 Pit (10700mm X W450mm X D660mm) Telecommunication Pit (Single Lid) — P50 — P2 Pit (11665mm X W285mm X D595mm) (230mm Internal Diameter) Telecommunication Pipe — P50 — Length 1.5m — P50 — 300mm Bend Radius at Pit — P50 — END CAP 	<ul style="list-style-type: none"> ⊠ Electrical Kiosk/Transformer/Switchgear ⊠ Broadband Aggregation Node (BAN) ⊠ Fibre Access Node (FAN) ⊠ Headend Rack (HDF) ⊠ Fibre Joint Closure (FJC) ⊠ Fibre Distribution Hub (FDH) ⊠ Connectorised FDH ⊠ OFDC 1:8 Connectorised FDH ⊠ Network Access Port 4x (NAP) ⊠ Connectorised NAP 4-Port ⊠ OFDC Connectorised NAP 12-Port ⊠ BID PON 1 - WITH SPLICING TRAYS ⊠ BID PON 2 - NO SPLICING TRAYS ⊠ ROT - RAPID WALLBOX 	<ul style="list-style-type: none"> — FIBRE TRUNK CABLE_24F — FIBRE TRUNK CABLE_24F — FIBRE TRUNK CABLE_24P — FIBRE TRUNK CABLE_24P — NAP TAIL CABLE — NAP TAIL CABLE — LEAD-IN ASSEMBLY (LIA) — LEAD-IN ASSEMBLY (LIA)
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CONDUIT CONFIGURATION

CONDUIT SIZE: [Symbol] — CONDUIT LENGTH: [Symbol]

CONDUIT QUANTITY: [Symbol] — CONDUIT LENGTH: [Symbol]

NAP CONFIGURATION

CONDUIT SIZE: [Symbol] — CONDUIT LENGTH: [Symbol]

CONDUIT QUANTITY: [Symbol] — CONDUIT LENGTH: [Symbol]

CONDUIT DESIGNATION: [Symbol] — CONDUIT LENGTH: [Symbol]

NAP DESIGNATION: [Symbol]

FDH DESIGNATION: [Symbol]

Drawing Identification

YKCW-0001

STATE: WA REGION: COWARAMUP

DRAWING TITLE:
**BIRDWOOD COWARAMUP
 STAGE 1
 CIVIL / FTTH NETWORK
 CONSTRUCTION PLAN**

SCALE: NTS SHEET No: 3 OF 3 REV: 3