

# ROBE AND ROCHE INVESTMENTS LTD PROPOSED DEVELOPMENT PARKLANDS AVE, BELL BLOCK

SHEET No.	DESCRIPTION	12/05/21	14/05/21	21/05/21	24/05/21										
<b>C0-1</b>	<b>TITLESHEET</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>										
<b>C0-2</b>	<b>GENERAL NOTES</b>		<b>B</b>	<b>C</b>	<b>D</b>										
<b>C0-3</b>	<b>SITE OVERVIEW PLAN</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>										
	<b>ROADING</b>														
<b>C1-1</b>	<b>ROAD 1 CH 0 - 170 m</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>										
<b>C1-2</b>	<b>ROAD 1 CH 170 - 340 m</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>										
<b>C1-3</b>	<b>ROAD 2 CH 0 - 150 m</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>										
<b>C1-4</b>	<b>ROAD 2 CH 150 - 253 m</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>										
<b>C1-5</b>	<b>ROAD 3 CH 0 - 150 m</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>										
<b>C1-6</b>	<b>ROAD 3 CH 150 - 300 m</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>										
<b>C1-7</b>	<b>ROAD 3 CH 300 - 397 m</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>										
<b>C1-8</b>	<b>ROAD 4 CH 0 - 82 m</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>										
<b>C1-9</b>	<b>ROAD 5 CH 0 - 148 m</b>		<b>B</b>	<b>C</b>	<b>D</b>										
<b>C1-10</b>	<b>ROAD 8 CH 0 - 122 m</b>		<b>B</b>	<b>C</b>	<b>D</b>										
<b>C1-11</b>	<b>ROAD 9 CH 0 - 160 m</b>		<b>B</b>	<b>C</b>	<b>D</b>										
<b>C1-12</b>	<b>CONSTRUCTION DETAILS</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>										
<b>C1-13</b>	<b>CONSTRUCTION DETAILS</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>										
	<b>RETICULATED WATER</b>														
<b>C2-1</b>	<b>ROAD 1 LAYOUT PLAN</b>		<b>B</b>	<b>C</b>	<b>D</b>										
<b>C2-2</b>	<b>ROAD 2 LAYOUT PLAN</b>		<b>B</b>	<b>C</b>	<b>D</b>										
<b>C2-3</b>	<b>ROAD 3 LAYOUT PLAN</b>		<b>B</b>	<b>C</b>	<b>D</b>										
<b>C2-4</b>	<b>ROADS 3 &amp; 4 LAYOUT PLAN</b>		<b>B</b>	<b>C</b>	<b>D</b>										
<b>C2-5</b>	<b>ROADS 5 &amp; 8 LAYOUT PLAN</b>		<b>B</b>	<b>C</b>	<b>D</b>										
<b>C2-6</b>	<b>ROAD 9 LAYOUT PLAN</b>		<b>B</b>	<b>C</b>	<b>D</b>										
	<b>SANITARY SEWER</b>														
<b>C3-1</b>	<b>ROAD 1 LAYOUT PLAN</b>			<b>C</b>	<b>D</b>										
<b>C3-2</b>	<b>ROAD 2 LAYOUT PLAN</b>			<b>C</b>	<b>D</b>										
<b>C3-3</b>	<b>ROAD 3 LAYOUT PLAN</b>			<b>C</b>	<b>D</b>										
<b>C3-4</b>	<b>ROADS 3 &amp; 4 LAYOUT PLAN</b>			<b>C</b>	<b>D</b>										
<b>C3-5</b>	<b>ROADS 5 &amp; 8 LAYOUT PLAN</b>			<b>C</b>	<b>D</b>										
<b>C3-6</b>	<b>ROAD 9 LAYOUT PLAN</b>			<b>C</b>	<b>D</b>										

SHEET No.	DESCRIPTION	12/05/21	14/05/21	21/05/21	24/05/21										
	<b>STORMWATER</b>														
<b>C4-1</b>	<b>ROAD 1 &amp; 8 LAYOUT PLAN</b>			<b>C</b>	<b>D</b>										
<b>C4-2</b>	<b>ROAD 2 &amp; 4 LAYOUT PLAN</b>			<b>C</b>	<b>D</b>										
<b>C4-3</b>	<b>ROAD 3 LAYOUT PLAN</b>			<b>C</b>	<b>D</b>										
<b>C4-4</b>	<b>ROADS 3 &amp; 9 LAYOUT PLAN</b>			<b>C</b>	<b>D</b>										
	<b>EARTHWORKS</b>														
<b>C5-1</b>	<b>SITE EARTHWORKS PLAN</b>				<b>D</b>										

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Client  
ROBE & ROCHE INVESTMENTS LTD

Project  
PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK

Sheet Title  
TITLESHEET

Drawing No.  
100-433

Job No. 3917  
Sheet No. C0-1

**A3**  
REV.  
**D**

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C0-1 Plot Date: 25/05/2021 Plot Time: 14:31

## 1.0 EARTHWORKS

### 1.1 EROSION AND SEDIMENT CONTROL

DURING THE EXTENT OF THE WORKS, AND IN ALL CASES PRIOR TO ANY EARTHWORKS TAKING PLACE, THE CONTRACTOR SHALL ENSURE THAT SEDIMENT CONTROLS ARE IN PLACE AND MAINTAINED TO THE TARANAKI REGIONAL COUNCIL'S CURRENT GUIDELINES FOR EARTHWORKS IN THE TARANAKI REGION.

### 1.2 SITE CLEARANCE

THE CONTRACTOR SHALL CLEAR AND REMOVE ALL VEGETATION, FOOTPATHS, KERBS ETC TO DUMP OFF SITE AT AN APPROVED LANDFILL AREA.

### 1.3 STRIP AND STOCKPILE TOPSOIL

ALL GRASS AREAS WITHIN THE CONSTRUCTION AREA SHALL BE STRIPPED, REMOVING THE GRASS TURF LAYER AND TOPSOIL TO STOCKPILE TO BE RE-SPREAD AND COMPACTED FOR REINSTATEMENT OVER THE CUT AND FILL AREAS.

### 1.4 CUT TO CERTIFIED FILL

THE CONTRACTOR SHALL COMPLETE ALL EXCAVATIONS TO THE LEVELS AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS WITH ALL MATERIAL BELOW THE TOPSOIL LAYER BEING TREATED AS STRUCTURAL FILL, UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.

THE CONTRACTOR SHALL PLACE AND COMPACT ALL STRUCTURAL FILL MATERIAL TO THE LEVELS AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS. CUT MATERIAL SUITABLE FOR STRUCTURAL FILL SHALL BE CONSIDERED AS TARANAKI ASH, AS DETERMINED BY THE ENGINEER ON-SITE.

WHEN MATCHING INTO EXISTING GROUND LEVELS/PROFILES THE FILL MATERIAL SHALL BE BLENDED TO ACHIEVE AN AESTHETICALLY PLEASING TRANSITION. ALL SURFACES SHALL BE TEXTURED (I.E. AN EXCAVATOR BUCKET TOOTH VERTICAL SCORE MARK) BEFORE PLACING TOPSOIL.

ALL STRUCTURAL FILL SHALL BE COMPACTED IN LAYERS OF NO MORE THAN 300 mm AND COMPACTED TO ACHIEVE 60 mm / BLOW OR LESS FOR 'TARANAKI ASH' AND 30 mm / BLOW OR LESS FOR ANY OTHER SOIL MATERIAL SUCH AS PIT METAL OR SAND, AS AN AVERAGE OVER 10 BLOWS USING A SCALA PENETROMETER TO 2 METRE TESTED MAXIMUM DEPTH. TESTS SHALL BE CARRIED OUT AT 10 m SPACINGS ACROSS THE EXTENTS OF THE FILL AREA, THE ENGINEER MAY REQUEST SPECIFIC TEST LOCATIONS IN AREAS OF INTEREST.

#### TESTING METHODS FOR TARANAKI ASH

SHEAR VANE	100 kPa MIN. 120 kPa TARGET
SCALA PENETROMETER	1 BLOWS/50mm MINIMUM 3 BLOWS/100mm TARGET

### 1.5 CUT TO WASTE

ANY AREAS OF SUBGRADE THAT APPEAR TO BE STRUCTURALLY WEAK OR FAIL TO ACHIEVE A CBR VALUE OF AT LEAST 7, OBTAINED BY SCALA PENETROMETER TESTING, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IT SHALL BE THE DECISION OF THE ENGINEER TO DETERMINE THE DEPTH AND AREA THAT SHALL OR SHALL NOT BE UNDERCUT. ALL EXCAVATED UNSUITABLE MATERIAL SHALL BE CUT TO WASTE AND DISPOSED OF OFF-SITE.

### 1.6 IMPORTED CERTIFIED FILL - TARANAKI VOLCANIC ASH

THE CONTRACTOR SHALL IMPORT AND COMPACT ALL STRUCTURAL FILL (CLEAN 'TARANAKI ASH') MATERIAL TO THE LEVELS AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS.

WHERE ADJOINING THE EXISTING GROUND PROFILE THE FILL IS TO BE BLENDED TO ACHIEVE AN AESTHETICALLY PLEASING TRANSITION. ALL CUT BATTERS SHALL BE TEXTURED (I.E. AN EXCAVATOR BUCKET TOOTH VERTICAL SCORE MARK) BEFORE PLACING TOPSOIL.

ALL STRUCTURAL FILL SHALL BE COMPACTED IN LAYERS OF NO MORE THAN 300 mm AND COMPACTED TO ACHIEVE 60 mm / BLOW OR LESS FOR 'TARANAKI ASH' AND 30 mm / BLOW OR LESS FOR ANY OTHER SOIL MATERIAL SUCH AS PIT METAL OR SAND, AS AN AVERAGE OVER 10 BLOWS USING A SCALA PENETROMETER TO 2 METRE TESTED MAXIMUM DEPTH. TESTS SHALL BE CARRIED OUT AT 10 m SPACINGS ACROSS THE EXTENTS OF THE FILL AREA, THE ENGINEER MAY REQUEST SPECIFIC TEST LOCATIONS IN AREAS OF INTEREST.

### 1.7 IMPORTED CERTIFIED FILL - GRANULAR MATERIAL

THE CONTRACTOR SHALL IMPORT AND COMPACT ALL STRUCTURAL GRANULAR FILL MATERIAL TO THE LEVELS AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS.

WHERE ADJOINING THE EXISTING GROUND PROFILE THE FILL IS TO BE BLENDED TO ACHIEVE AN AESTHETICALLY PLEASING TRANSITION. ALL CUT BATTERS SHALL BE TEXTURED (I.E. AN EXCAVATOR BUCKET TOOTH VERTICAL SCORE MARK) BEFORE PLACING TOPSOIL.

ALL STRUCTURAL FILL SHALL BE COMPACTED IN LAYERS OF NO MORE THAN 150 mm AND COMPACTED IN ACCORDANCE WITH TNZ B/02 TO ACHIEVE AN AVERAGE 95% OF MAXIMUM DRY DENSITY (MDD). TESTS SHALL BE CARRIED OUT AT 10 m SPACINGS ACROSS THE EXTENTS OF THE FILL AREA, THE ENGINEER MAY REQUEST SPECIFIC TEST LOCATIONS IN AREAS OF INTEREST.

### 1.8 HYDRO-SEED GRASS REINSTATEMENT AREAS

THE CONTRACTOR SHALL PLACE, PREPARE AND SPREAD STOCKPILED TOPSOIL OVER ALL AREAS DISTURBED DURING CONSTRUCTION OR IDENTIFIED ON SITE BY THE ENGINEER AS REINSTATEMENT AREAS. THE TOPSOIL SHALL BE FREE OF DEBRIS (INCLUDING STONES) GREATER THAN 7mm AND HAVE A MINIMUM DEPTH OF 250mm.

THE FINISHED SURFACE SHAPE SHALL NOT VARY BY MORE THAN 20 MM FROM THE ADJACENT SURFACE AND A 1.5m STRAIGHT EDGE. THE FINISHED SURFACE SHALL BE COMPACT AND FREE FROM STONES AND LUMPS. REINSTATEMENT AREAS SHALL MEET THE EXISTING SURFACE LEVEL AT THE TIE-IN LOCATIONS.

REINSTATEMENT AREAS SHALL BE HYDRO-SEEDED. HYDRO-SEED MIX AND RATES SHALL BE SPECIFIED BY A HYDRO-SEEDING SPECIALIST, THEN SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO APPLICATION.

THE APPROVAL MIX SHALL BE APPLIED AT THE PROPORTIONS AND RATES DETERMINED BY THE SPECIALIST AND APPROVED BY THE ENGINEER.

#### SUCCESSFUL STRIKE OF GRASS

THE CONTRACTOR SHALL, ON ANY 300mm SQUARE, ACHIEVE AN 80% STRIKE WITH GRASS GROWING TO AT LEAST 50mm.

#### WEEDS AND NOXIOUS PLANTS

THE FINISHED LAWN SHALL BE FREE OF WEEDS (INCLUDING FLAT WEEDS AND KIKUYU GRASS) AND NOXIOUS PLANTS EXCEPT WHERE ADJACENT WEEDS ENCROACH INTO THE SOWN AREA.

## 2.0 PIPES AND MANHOLES

### 2.1 PIPE WORK

THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL PIPE WORK AS PER RELEVANT STANDARD, AS FOLLOWS:

PRE-CAST CONCRETE PIPES TO BE IN ACCORDANCE WITH	AS/NZS 4058:2007
PVC PIPES AND FITTINGS TO BE IN ACCORDANCE WITH	AS/NZS 1477 AND AS/NZS 4765
PE PIPES TO BE IN ACCORDANCE WITH	AS/NZS 4130 AND AS/NZS 4129
RUBBER RINGS TO BE IN ACCORDANCE WITH	AS 1645:2000
INSTALLATION OF BURIED CONCRETE PIPES IN ACCORDANCE WITH	AS/NZS 3725:2007
INSTALLATION OF BURIED FLEXIBLE PVC/PE PIPES IN ACCORDANCE WITH	AS/NZS 2566:2007

WHERE THE DN150 SCH40 PIPE IS INSTALLED BELOW GROUND LEVEL, IT SHALL BE INSTALLED WITH TYPE 2 SUPPORT AS PER THE CONSTRUCTION DRAWINGS AND AS DETAILED WITHIN THE NPDC & STDC LAND DEVELOPMENT AND SUBDIVISION INFRASTRUCTURE STANDARD (BASED ON NZS 4404:2010), SECTION 4.

### TRENCH EXCAVATION

AFTER IDENTIFICATION OF ALL EXISTING SERVICES IN ANY SECTION THE TRENCH FOR THE NEW PIPE SHALL BE EXCAVATED TO THE LENGTHS AND GRADES INDICATED ON THE CONSTRUCTION DRAWINGS AND TO SUCH DEPTH NECESSARY TO ATTAIN THE SPECIFIED MINIMUM COVER AND BEDDING.

THE MINIMUM TRENCH WIDTH SHALL BE THE PIPE DIAMETER PLUS 100 mm EACH SIDE, BUT THE WIDTH SHALL BE SUFFICIENT TO ALLOW FOR PLACING OF BEDDING AND COMPACTION OF PIPE SURROUND. THIS NOTWITHSTANDING, EXCESSIVE TRENCH WIDTHS SHALL BE AVOIDED.

MINIMUM COVER TO ALL PIPES SHALL BE 900mm UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.

WHERE GROUND CONDITIONS AT THE SPECIFIED INVERT LEVEL ARE CONSIDERED BY THE ENGINEER TO BE UNSUITABLE, THE TRENCH SHALL BE EXCAVATED TO AN EXTRA DEPTH AS DIRECTED BY THE ENGINEER AND BACKFILLED WITH APPROVED GRANULAR MATERIAL, TO BE TREATED AS DAY-WORKS.

WHERE ENCOUNTERED, ROCK SHALL BE PAID FOR AS A VARIATION TO CONTRACT. ROCK SHALL BE DEFINED AS SOLID UNBROKEN MATERIAL WHICH CANNOT BE EXCAVATED BY NORMAL MACHINE METHODS BUT REQUIRES BLASTING OR THE USE OF PNEUMATIC PICKS. BOULDERS OF LESS THAN ONE HALF A CUBIC METRE IN SIZE WILL NOT BE CONSIDERED AS ROCK.

EXCAVATED MATERIAL SHALL BE DEPOSITED CLEAR OF THE TRENCH SIDE AND SO AS NOT TO OBSTRUCT WATER CHANNELS OR INFLUENCE TRENCH STABILITY.

TRENCHES SHALL BE KEPT FREE OF WATER WHERE POSSIBLE. THE CONTRACTOR SHALL PROVIDE AND USE IN THE WORK ALL PUMPS, POWER UNITS, PIPES AND OTHER APPLIANCES NECESSARY. UNDER NO CIRCUMSTANCES SHALL A WATERWAY BE DIVERTED WITHOUT TRC APPROVAL.

WATER FROM DE-WATERING OPERATIONS SHALL ONLY BE DISCHARGED IN FULL ACCORDANCE WITH TARANAKI REGIONAL COUNCIL AND NEW PLYMOUTH DISTRICT COUNCIL'S REQUIREMENTS. ADEQUATE PROVISION SHALL BE MADE TO TRAP ALL SAND, SILT AND THE LIKE, WHICH IS IN SUSPENSION. WHERE EXISTING DRAINS ARE USED FOR THIS PURPOSE ANY DEPOSITS THEREIN WHICH ARE DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE CLEARED BY THE CONTRACTOR AT HIS OWN EXPENSE.

### BEDDING

BEDDING MATERIAL SHALL BE SELECTED GRANULAR, NON-COHESIVE MATERIAL, GENERALLY WITH A MAXIMUM PARTICLE SIZE OF 5mm, EXCEPT THAT NO MORE THAN 5% OF THE MATERIAL BY WEIGHT MAY BE GREATER THAN 5mm. NO STONE SHALL BE OVER 20mm.

BEDDING MATERIAL SHALL BE HAND TRIMMED SO THAT THE WHOLE LENGTH OF THE PIPE BEARS EVENLY AND SOCKET HOLES SHALL BE DUG OF SUFFICIENT SIZE TO ALLOW PROPER JOINTING OF THE PIPES. UNDER NO CIRCUMSTANCES WILL PIPES BE ALLOWED TO BEAR ON PIPE SOCKETS.

WHERE THE NATURAL MATERIAL AT THE TRENCH BOTTOM IS ROCKY OR OTHERWISE UNSUITABLE THE ENGINEER WILL ORDER THE DEPTH OF BEDDING MATERIAL TO BE INCREASED TO 200mm.

### LAYING AND JOINTING

ALL PIPES SHALL BE HANDLED WITH CARE AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ANY DAMAGE WHATSOEVER TO PIPES BY THE CONTRACTOR SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER WHO WILL EITHER APPROVE ANY PROPOSAL FOR REPAIR OF SUCH DAMAGE OR ORDER REPLACEMENT OF THE PIPE, BOTH AT THE CONTRACTOR'S EXPENSE.

ONLY COMPETENT PERSONS WILL BE PERMITTED TO LAY AND JOINT PIPES.

THE CONTRACTOR SHALL SUPPLY AND INSTALL SPECIFIED CULVERTS AT THE LOCATIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ALL CULVERTS SHALL BE LAID ON A CONSTANT GRADE TOWARDS THE DISCHARGE POINTS. ALL PIPE JOINTS SHALL BE MADE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE SPIGOT AND SOCKET OF ALL PIPES (INCLUDING RUBBER RING) SHALL BE WIPED CLEAN OF ALL DELETERIOUS MATTER BEFORE JOINTING.

### BACKFILL

INITIAL BACKFILL (SURROUND): INITIAL BACKFILLING SHALL COMPLY WITH NPDC & STDC LAND DEVELOPMENT AND SUBDIVISION INFRASTRUCTURE STANDARD (BASED ON NZS 4404:2010). THE INITIAL BACKFILL SHALL BE CAREFULLY PLACED AND COMPACTED BY THOROUGH HARD HAND TAMPING OR OTHER APPROVED MEANS TO ENSURE THAT THE PIPE IS NOT DISPLACED EITHER HORIZONTALLY OR VERTICALLY.

BACKFILL: FOLLOWING THE INITIAL BACKFILLING, AS ABOVE, THE TRENCH SHALL BE BACKFILLED TO DESIGN SUBGRADE LEVELS WITH APPROVED MATERIAL. THE MATERIAL SHALL BE COMPACTED IN 300mm THICK (LOOSE) LAYERS AND EACH LAYER COMPACTED BY AN APPROVED VIBRATING DRUM ROLLER OR EQUIVALENT MECHANICAL COMPACTOR. EARTH FILL MATERIAL (CLEAN TARANAKI ASH) SHALL PROVIDE 60mm / BLOW OR LESS, AS AN AVERAGE OVER 10 BLOWS, USING A SCALA PENETROMETER TO 2m TESTED MAXIMUM DEPTH.

ANY SUBSIDENCE OF TRENCHES OR EXCAVATIONS SHALL BE MADE GOOD DURING THE MAINTENANCE PERIOD AND THE SURFACES REINSTATED.

### 2.2 PIPE FITTINGS

THE CONTRACTOR SHALL SUPPLY AND INSTALL AVK UNIVERSAL STRAIGHT COUPLINGS AND TABLE 6 STAINLESS STEEL DN150mm WELDING NECK FLANGES AS INDICATED ON THE CONSTRUCTION DRAWINGS. THE COUPLINGS SHALL BE PN16 3 BOLT DN150 601-183004-312 OR SIMILAR APPROVED AS PER MANUFACTURES SPECIFICATIONS.

### 2.3 MANHOLES

THE CONTRACTOR SHALL SUPPLY AND INSTALL A Ø1050mm PRECAST CONCRETE MANHOLE, COMPLETE WITH PRECAST CONCRETE BASE, HEAVY DUTY CONCRETE LID, HEAVY-DUTY CAST-IRON COVER AS SHOWN ON THE CONSTRUCTION DRAWINGS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND THE NPDC & STDC LAND DEVELOPMENT AND SUBDIVISION INFRASTRUCTURE STANDARD (BASED ON NZS 4404:2010), SECTION 4.

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Client  
**ROBE & ROCHE INVESTMENTS LTD**

Project  
**PROPOSED DEVELOPMENT PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**GENERAL NOTES**

Drawing No.  
**100-433**

Job No.  
**3917**

Sheet No.  
**C0-2**

**A3**

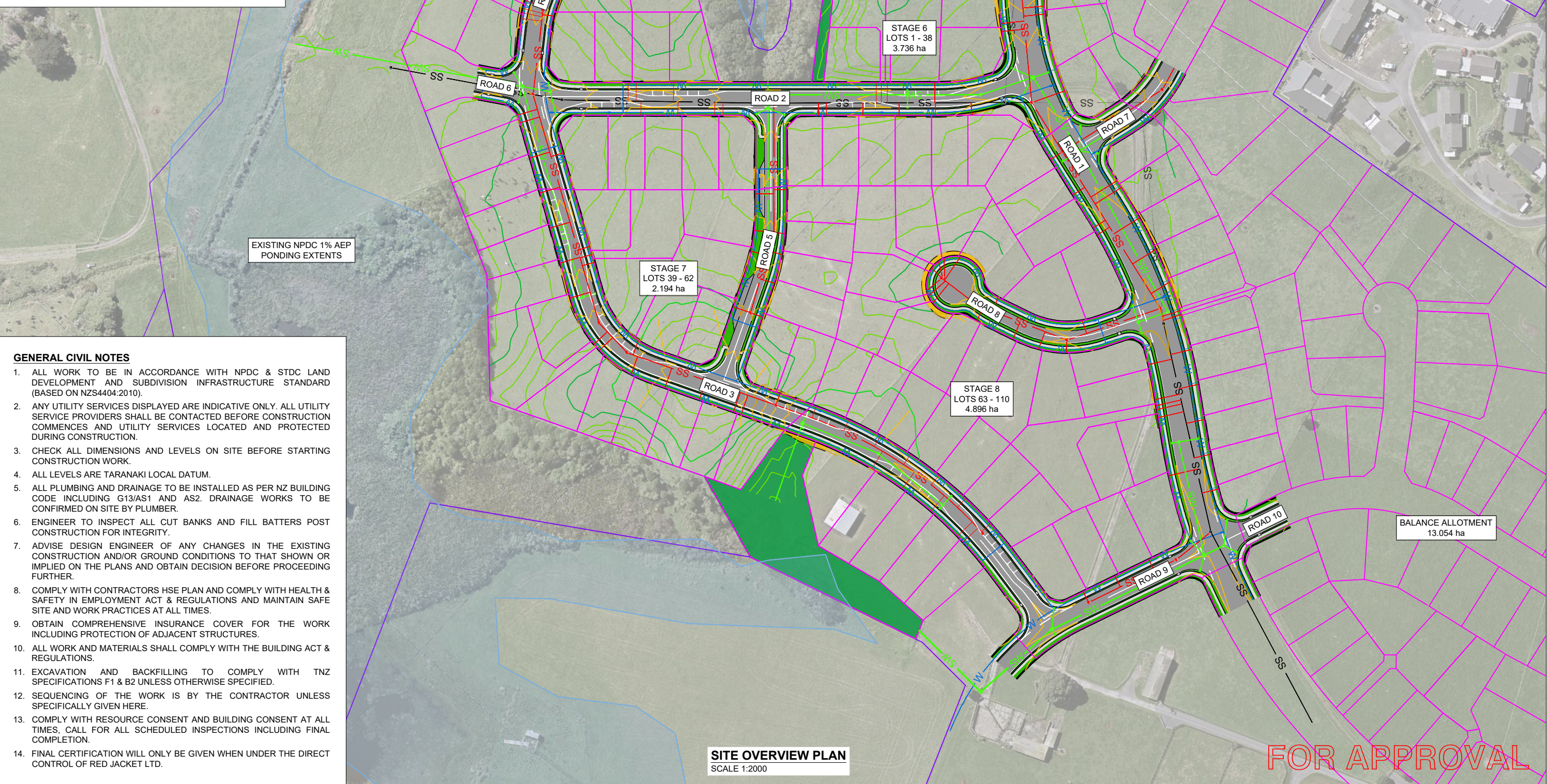
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**D**



**LEGEND**

EXISTING LEGAL BOUNDARY	
EXISTING EDGE OF SEAL	
EXISTING SEWER	
EXISTING WATER	
EXISTING STORMWATER	
EXISTING POWER	
NEW LEGAL BOUNDARY	
NEW SEWER	
NEW WATER	
NEW STORMWATER	
NEW GAS	
NEW POWER	
NEW FIBRE OPTIC	
NEW CUT BATTER	
NEW FILL BATTER	
NEW CONCRETE	
NEW ASPHALTIC CONCRETE	



**GENERAL CIVIL NOTES**

1. ALL WORK TO BE IN ACCORDANCE WITH NPDC & STDC LAND DEVELOPMENT AND SUBDIVISION INFRASTRUCTURE STANDARD (BASED ON NZS4404:2010).
2. ANY UTILITY SERVICES DISPLAYED ARE INDICATIVE ONLY. ALL UTILITY SERVICE PROVIDERS SHALL BE CONTACTED BEFORE CONSTRUCTION COMMENCES AND UTILITY SERVICES LOCATED AND PROTECTED DURING CONSTRUCTION.
3. CHECK ALL DIMENSIONS AND LEVELS ON SITE BEFORE STARTING CONSTRUCTION WORK.
4. ALL LEVELS ARE TARANAKI LOCAL DATUM.
5. ALL PLUMBING AND DRAINAGE TO BE INSTALLED AS PER NZ BUILDING CODE INCLUDING G13/AS1 AND AS2. DRAINAGE WORKS TO BE CONFIRMED ON SITE BY PLUMBER.
6. ENGINEER TO INSPECT ALL CUT BANKS AND FILL BATTERS POST CONSTRUCTION FOR INTEGRITY.
7. ADVISE DESIGN ENGINEER OF ANY CHANGES IN THE EXISTING CONSTRUCTION AND/OR GROUND CONDITIONS TO THAT SHOWN OR IMPLIED ON THE PLANS AND OBTAIN DECISION BEFORE PROCEEDING FURTHER.
8. COMPLY WITH CONTRACTORS HSE PLAN AND COMPLY WITH HEALTH & SAFETY IN EMPLOYMENT ACT & REGULATIONS AND MAINTAIN SAFE SITE AND WORK PRACTICES AT ALL TIMES.
9. OBTAIN COMPREHENSIVE INSURANCE COVER FOR THE WORK INCLUDING PROTECTION OF ADJACENT STRUCTURES.
10. ALL WORK AND MATERIALS SHALL COMPLY WITH THE BUILDING ACT & REGULATIONS.
11. EXCAVATION AND BACKFILLING TO COMPLY WITH TNZ SPECIFICATIONS F1 & B2 UNLESS OTHERWISE SPECIFIED.
12. SEQUENCING OF THE WORK IS BY THE CONTRACTOR UNLESS SPECIFICALLY GIVEN HERE.
13. COMPLY WITH RESOURCE CONSENT AND BUILDING CONSENT AT ALL TIMES, CALL FOR ALL SCHEDULED INSPECTIONS INCLUDING FINAL COMPLETION.
14. FINAL CERTIFICATION WILL ONLY BE GIVEN WHEN UNDER THE DIRECT CONTROL OF RED JACKET LTD.

**SITE OVERVIEW PLAN**  
SCALE 1:2000

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Client  
**ROBE & ROCHE INVESTMENTS LTD**

Project  
**PROPOSED DEVELOPMENT PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**SITE OVERVIEW PLAN**

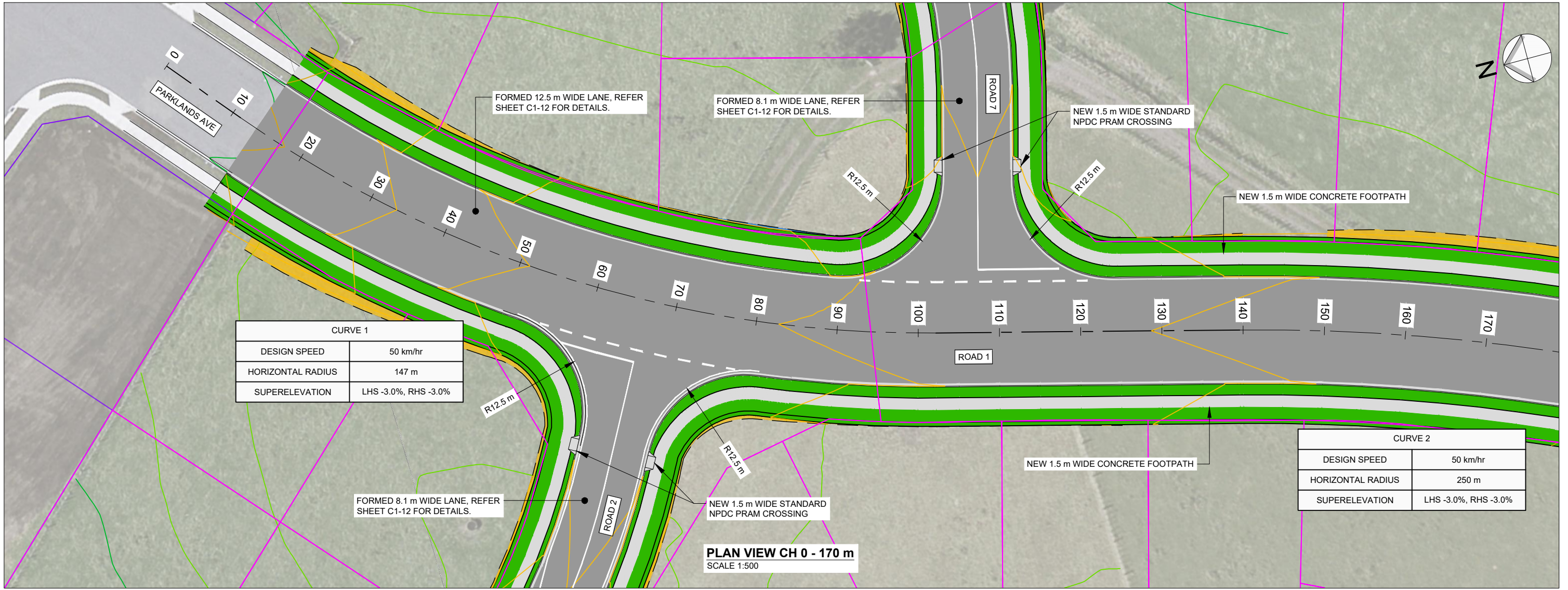
Drawing No.  
**100-433**

Job No. **3917** Sheet No. **C0-2**

**A3**  
REV.  
**D**

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C0-3 Plot Date: 25/05/2021 Plot Time: 14:31

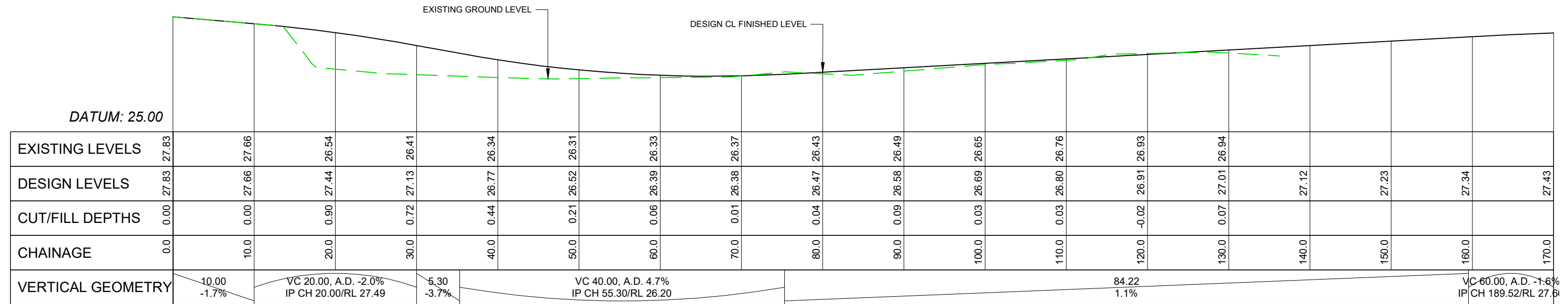




CURVE 1	
DESIGN SPEED	50 km/hr
HORIZONTAL RADIUS	147 m
SUPERELEVATION	LHS -3.0%, RHS -3.0%

CURVE 2	
DESIGN SPEED	50 km/hr
HORIZONTAL RADIUS	250 m
SUPERELEVATION	LHS -3.0%, RHS -3.0%

**PLAN VIEW CH 0 - 170 m**  
SCALE 1:500



**LONGSECTION CH 0 - 170 m**  
SCALE 1:500H 1:100V

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**ROBE & ROCHE INVESTMENTS LTD**

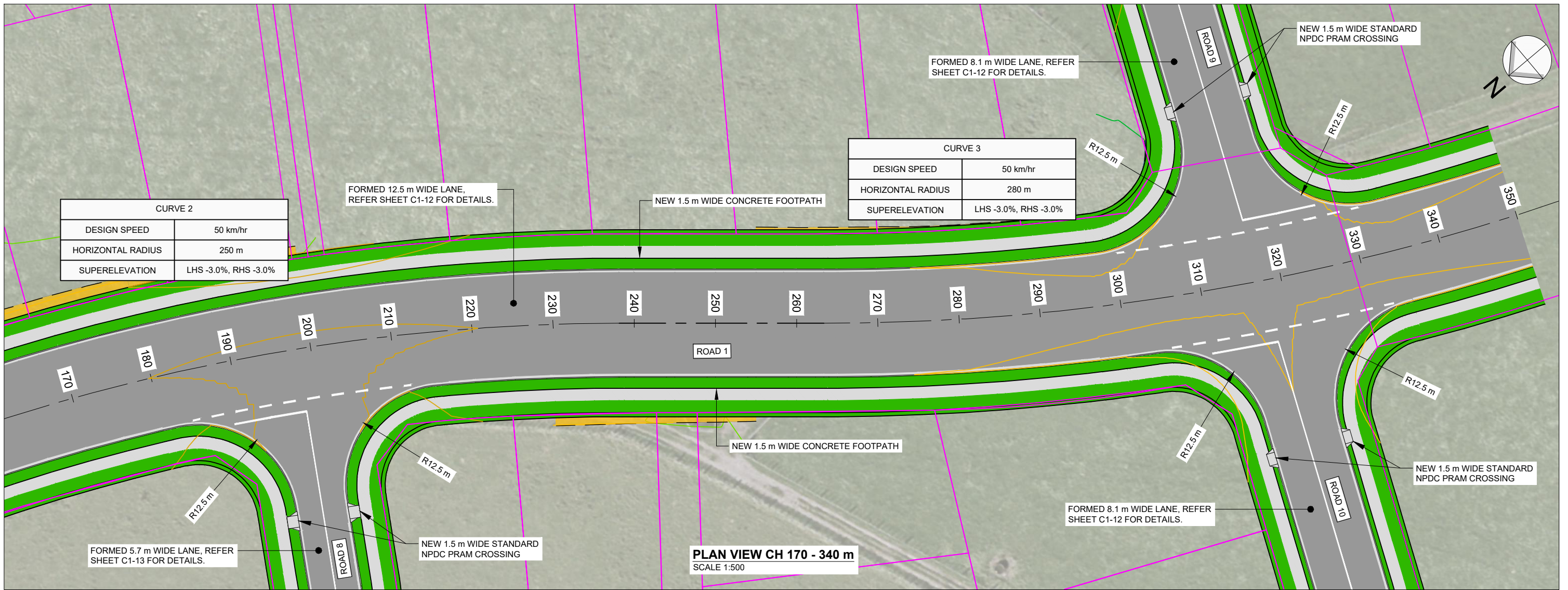
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 1  
PLAN AND LONGSECTION  
CH 0 - 170 m**

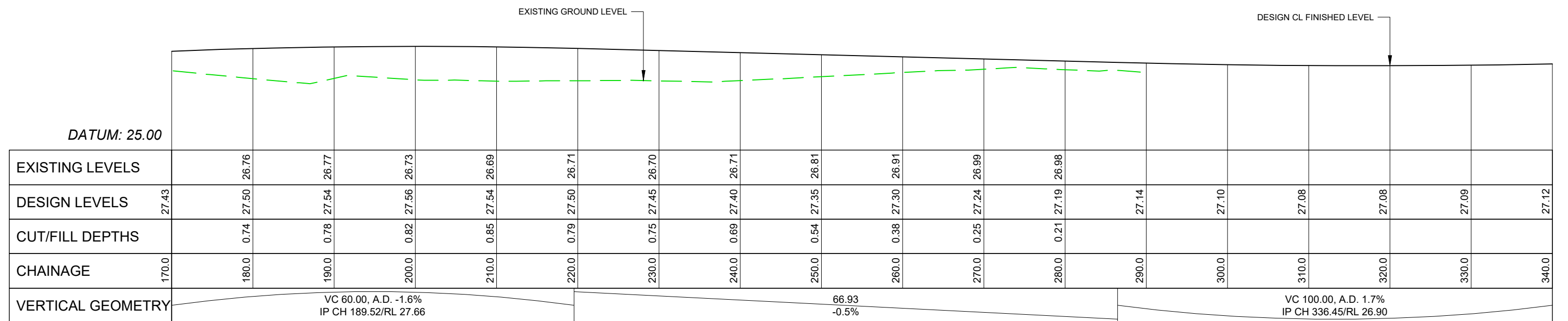
Drawing No.	<b>100-433</b>	<b>A3</b>
Job No.	<b>3917</b>	REV.
Sheet No.	<b>C1-1</b>	<b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C1-1 Plot Date: 25/05/2021 Plot Time: 14:31





**PLAN VIEW CH 170 - 340 m**  
SCALE 1:500



**LONGSECTION CH 170 - 340 m**  
SCALE 1:500H 1:100V

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DATE	REV	REV RECORD	BY	CHD	VER	APP

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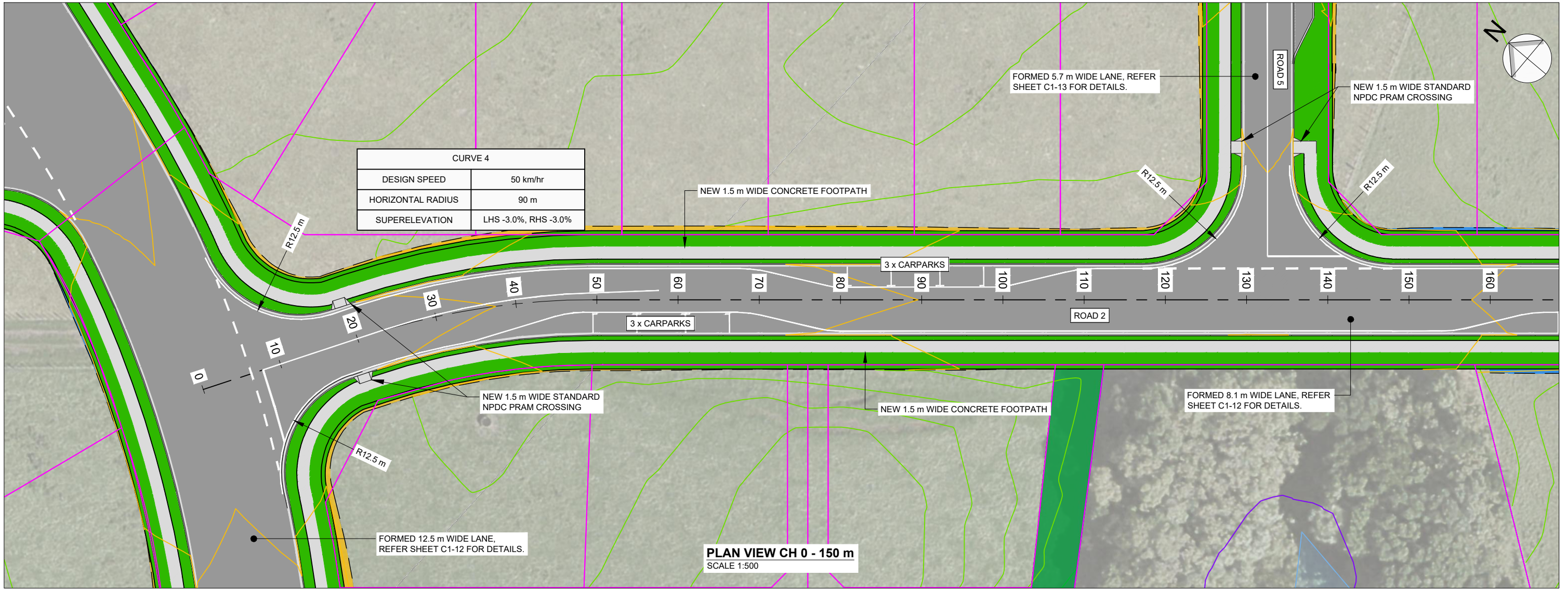
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 1  
PLAN AND LONGSECTION  
CH 170 - 340 m**

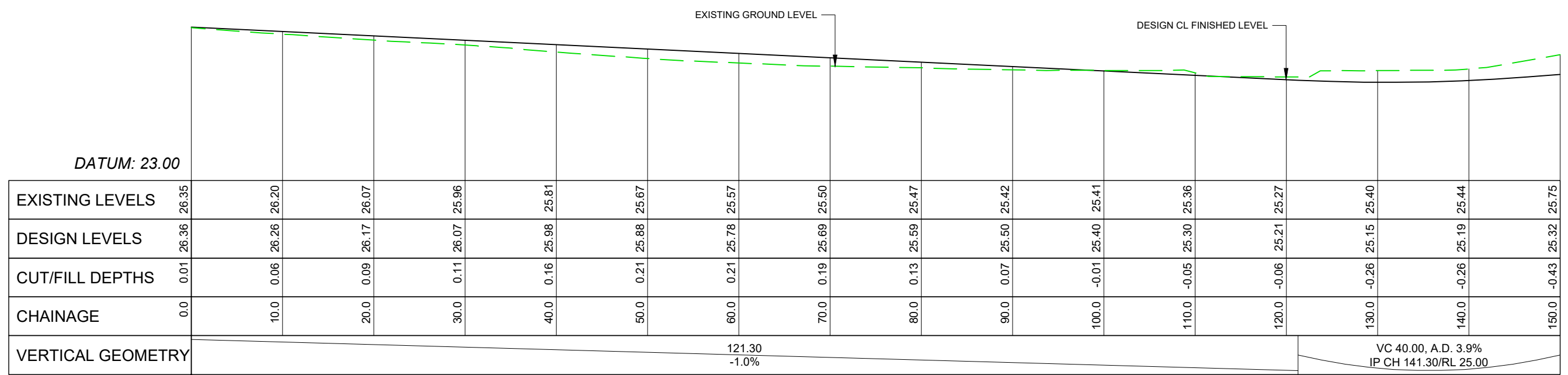
Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C1-2</b>	REV. <b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C1-2 Plot Date: 25/05/2021 Plot Time: 14:31





**PLAN VIEW CH 0 - 150 m**  
SCALE 1:500



**LONGSECTION CH 0 - 150 m**  
SCALE 1:500H 1:100V

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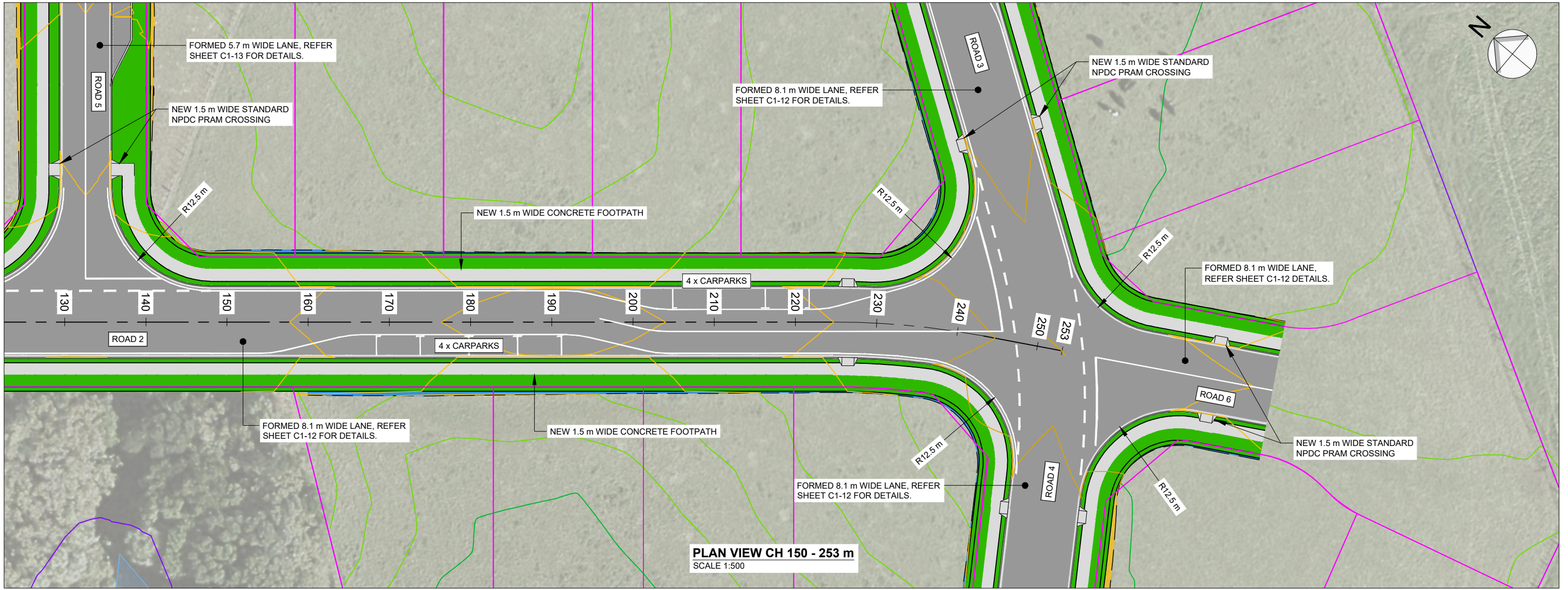
Project  
**PROPOSED DEVELOPMENT PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 2 PLAN AND LONGSECTION CH 0 - 150 m**

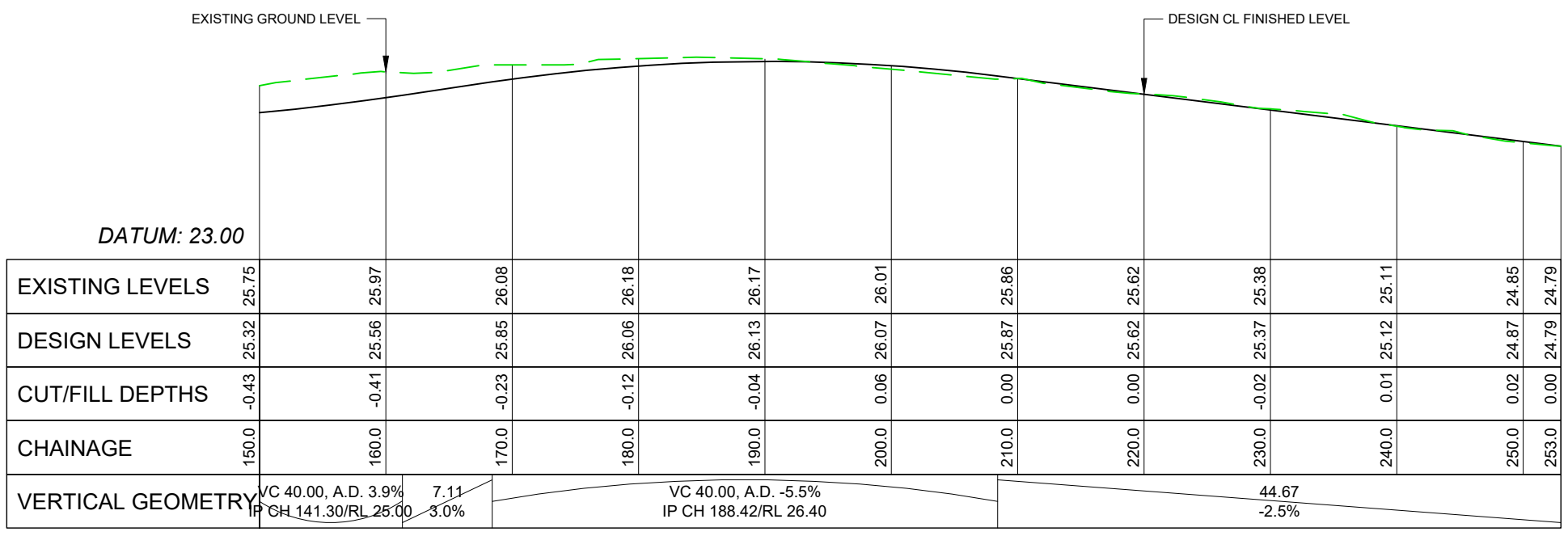
Drawing No.	<b>100-433</b>	<b>A3</b>
Job No.	<b>3917</b>	REV.
Sheet No.	<b>C1-3</b>	<b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C1-3 Plot Date: 25/05/2021 Plot Time: 14:32





**PLAN VIEW CH 150 - 253 m**  
SCALE 1:500



**LONGSECTION CH 150 - 253 m**  
SCALE 1:500H 1:100V

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DATE	REV	REV RECORD	BY	CHD	VER	APP

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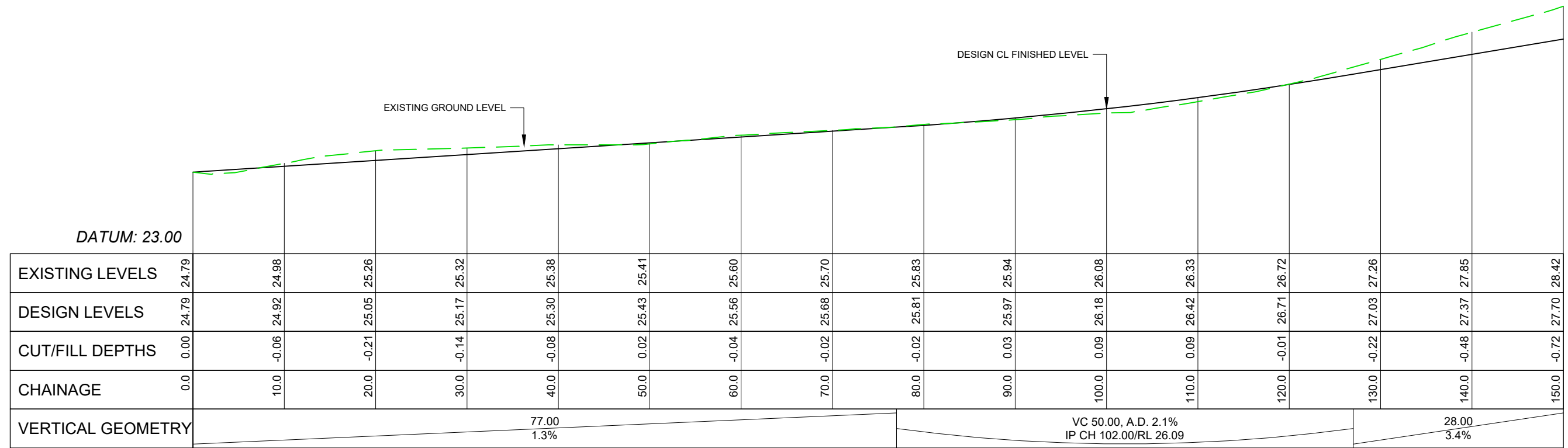
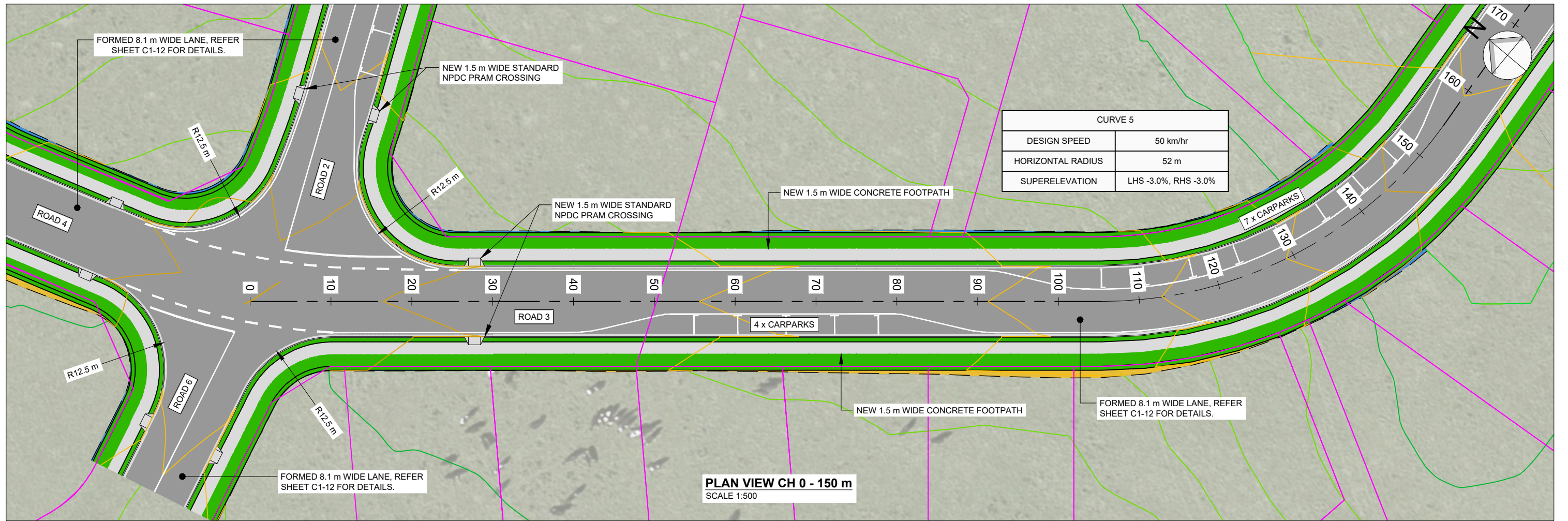
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 2  
PLAN AND LONGSECTION  
CH 150 - 253 m**

Drawing No.	<b>100-433</b>	<b>A3</b>
Job No.	<b>3917</b>	REV.
Sheet No.	<b>C1-4</b>	<b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C1-4 Plot Date: 25/05/2021 Plot Time: 14:32





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DATE	REV	REV RECORD	BY	CHD	VER	APP

Client  
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Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

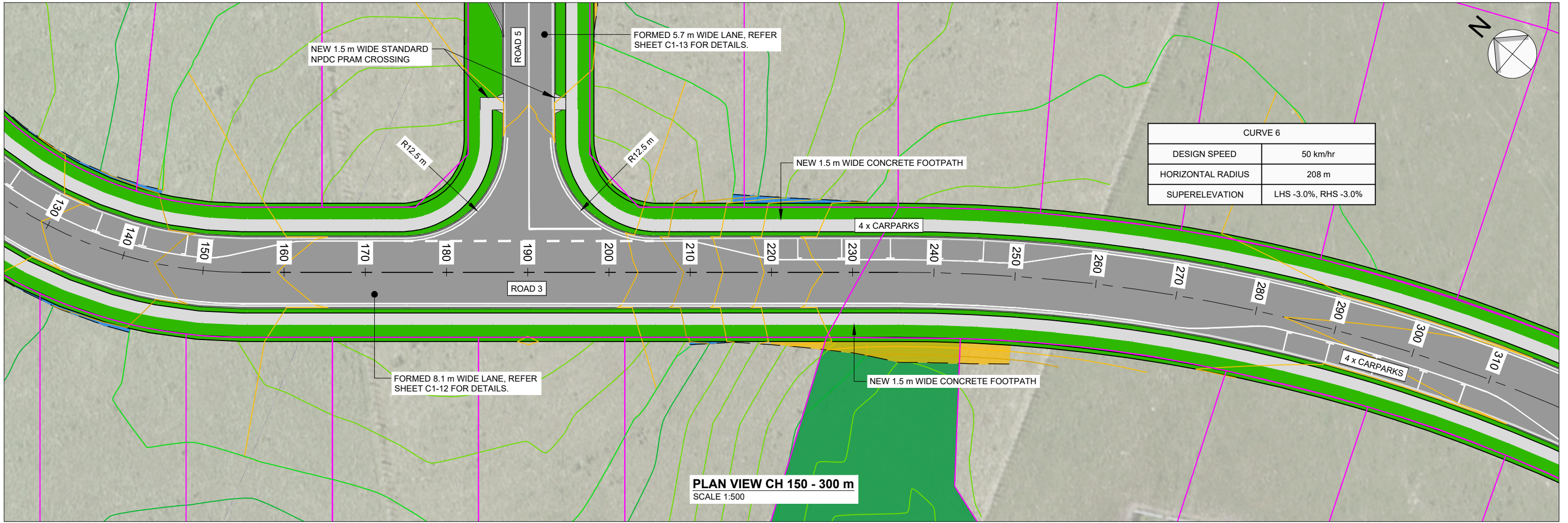
Sheet Title  
**ROAD 3  
PLAN AND LONGSECTION  
CH 0 - 150 m**

Drawing No.  
**100-433**

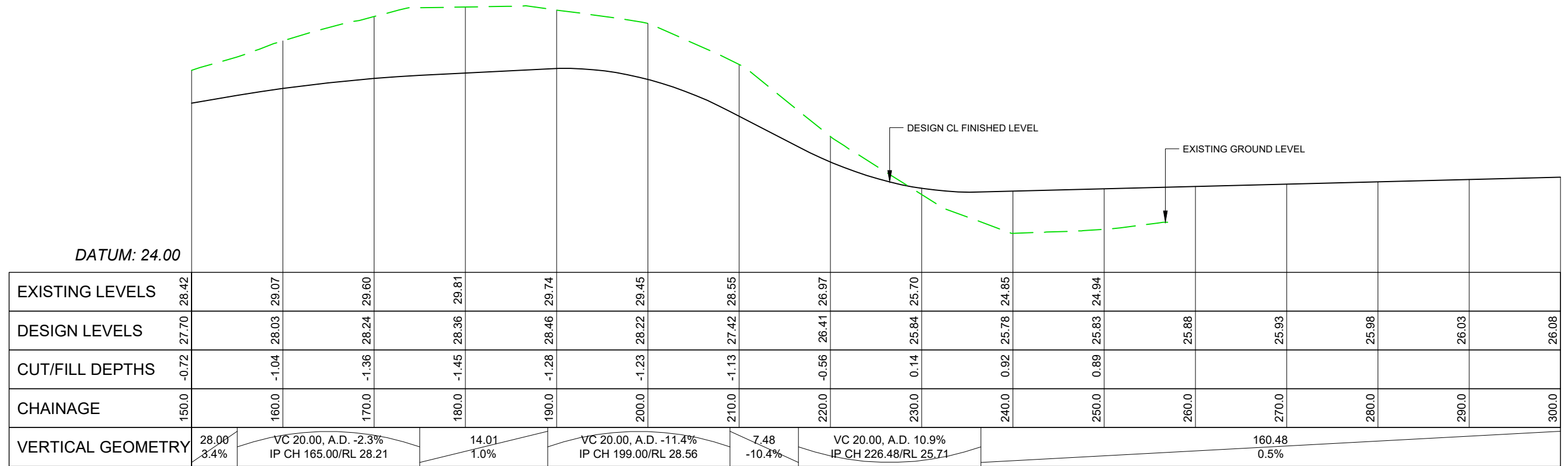
Job No. **3917** Sheet No. **C1-5**

**A3**  
REV.  
**D**





**PLAN VIEW CH 150 - 300 m**  
SCALE 1:500



**LONGSECTION CH 150 - 300 m**  
SCALE 1:500H 1:100V

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DATE	REV	REV RECORD	BY	CHD	VER	APP

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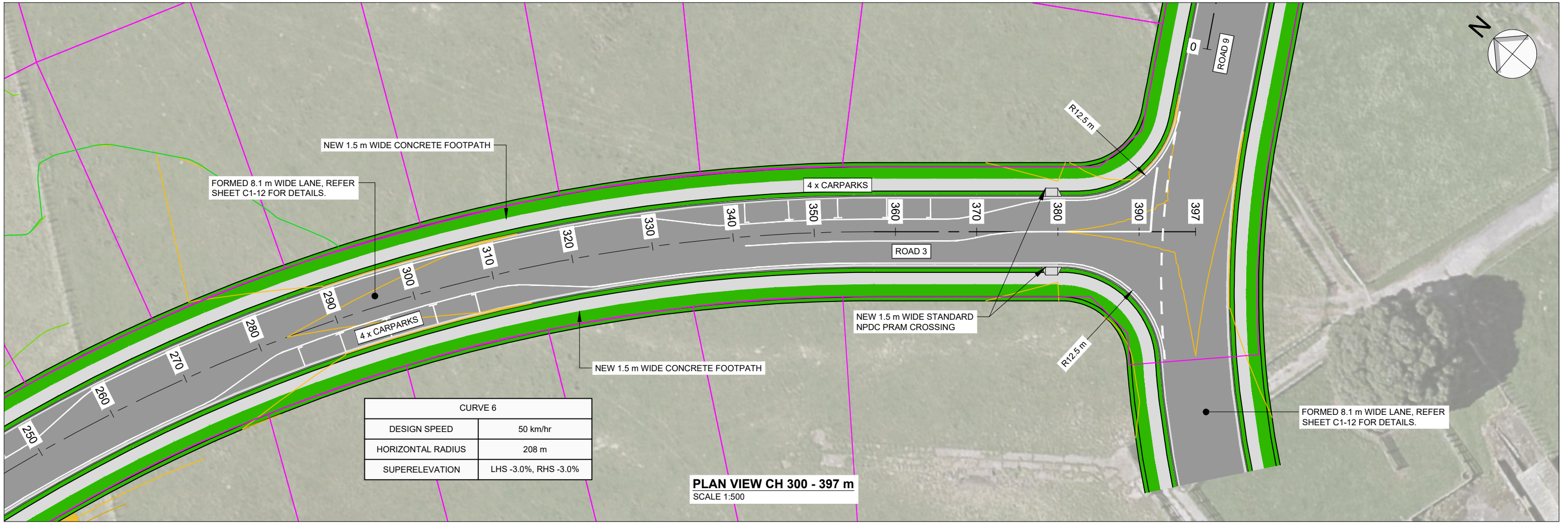
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 3  
PLAN AND LONGSECTION  
CH 150 - 300 m**

Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C1-6</b>	REV. <b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\Draw\100-433.dwg - C1-6 Plot Date: 25/05/2021 Plot Time: 14:32





DATUM: 23.00

	300.0	310.0	320.0	330.0	340.0	350.0	360.0	370.0	380.0	390.0	397.0
EXISTING LEVELS											
DESIGN LEVELS	26.08	26.14	26.19	26.24	26.29	26.34	26.39	26.45	26.50	26.55	26.58
CUT/FILL DEPTHS											
CHAINAGE	300.0	310.0	320.0	330.0	340.0	350.0	360.0	370.0	380.0	390.0	397.0
VERTICAL GEOMETRY											

**LONGSECTION CH 300 - 397 m**  
SCALE 1:500H 1:100V

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Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

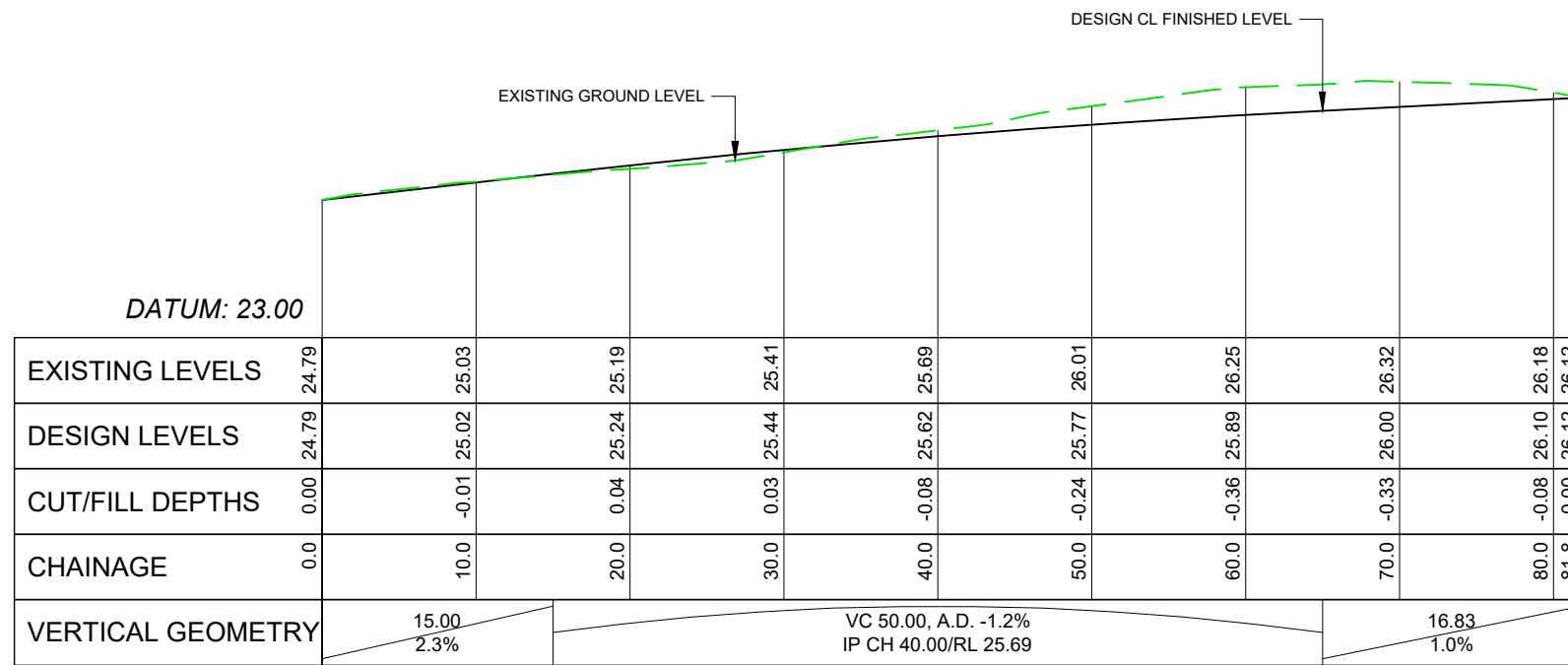
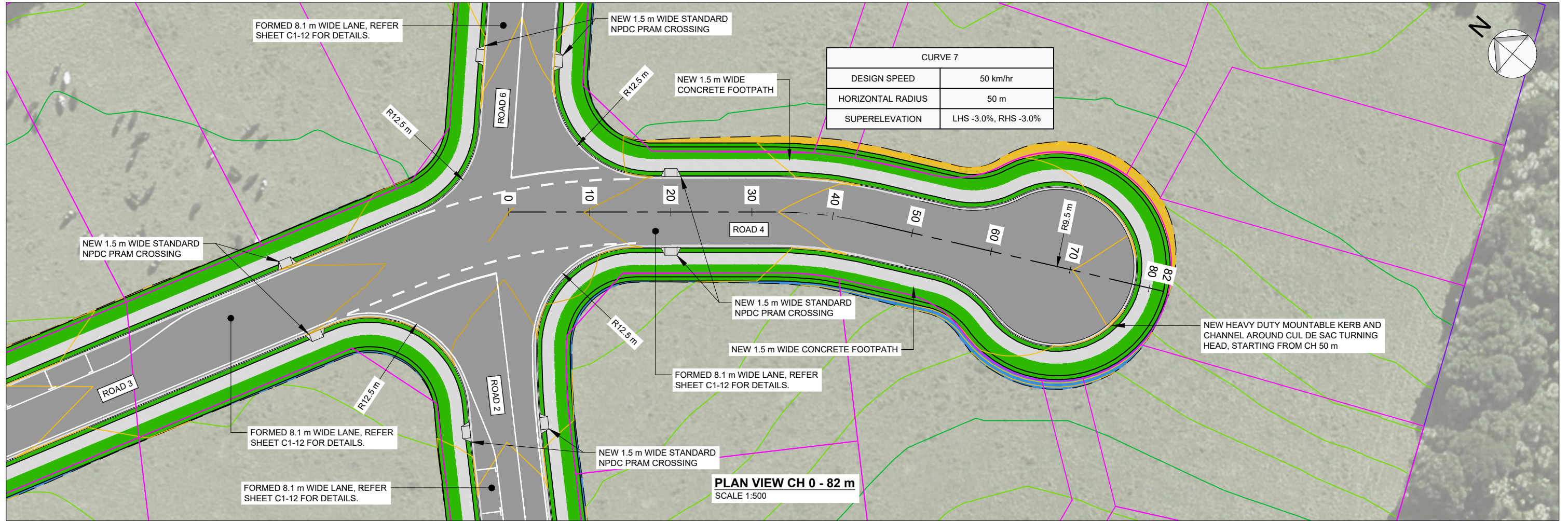
Sheet Title  
**ROAD 3  
PLAN AND LONGSECTION  
CH 300 - 397 m**

Drawing No.  
**100-433**

Job No. **3917** Sheet No. **C1-7**

**A3**  
REV.  
**D**





**LONGSECTION CH 0 - 82 m**  
SCALE 1:500H 1:100V

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DATE	REV	REV RECORD	BY	CHD	VER	APP

Client  
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Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 4  
PLAN AND LONGSECTION  
CH 0 - 82 m**

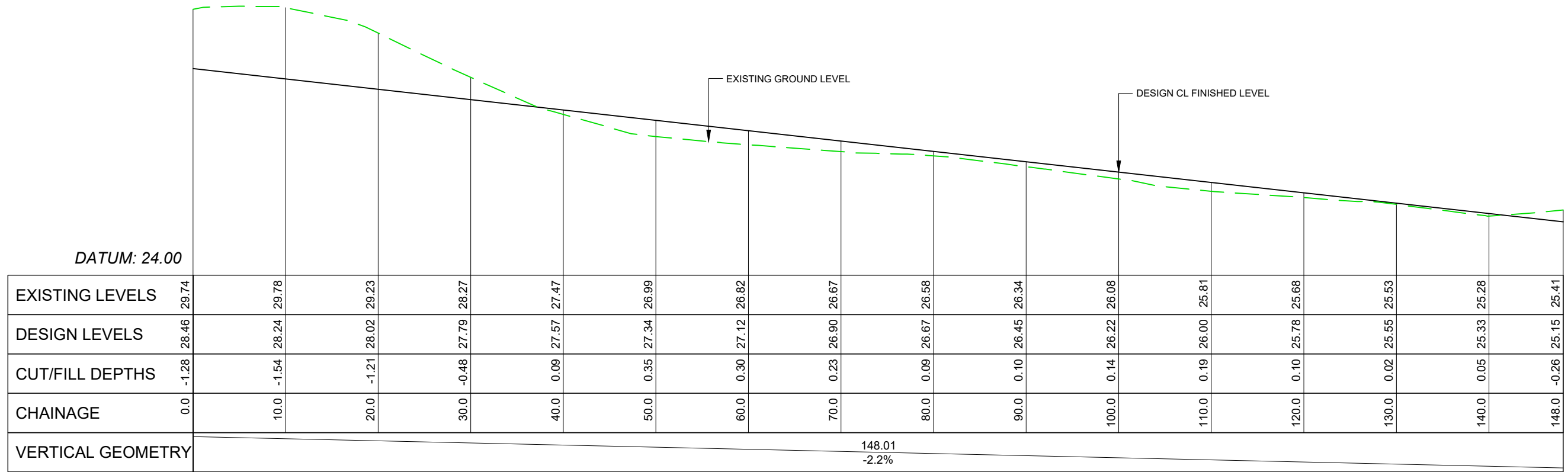
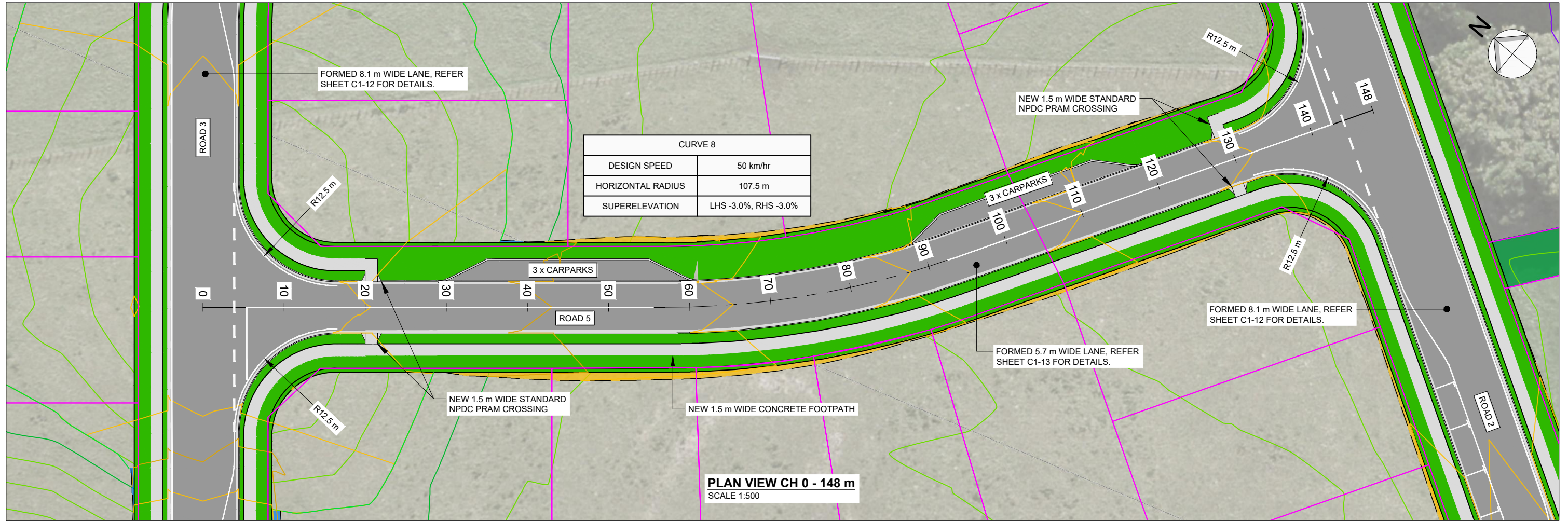
Drawing No.  
**100-433**

Job No. **3917** Sheet No. **C1-8**

**A3**  
REV.  
**D**

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C1-8 Plot Date: 25/05/2021 Plot Time: 14:32





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DATE	REV	REV RECORD	BY	CHD	VER	APP

Client  
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Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

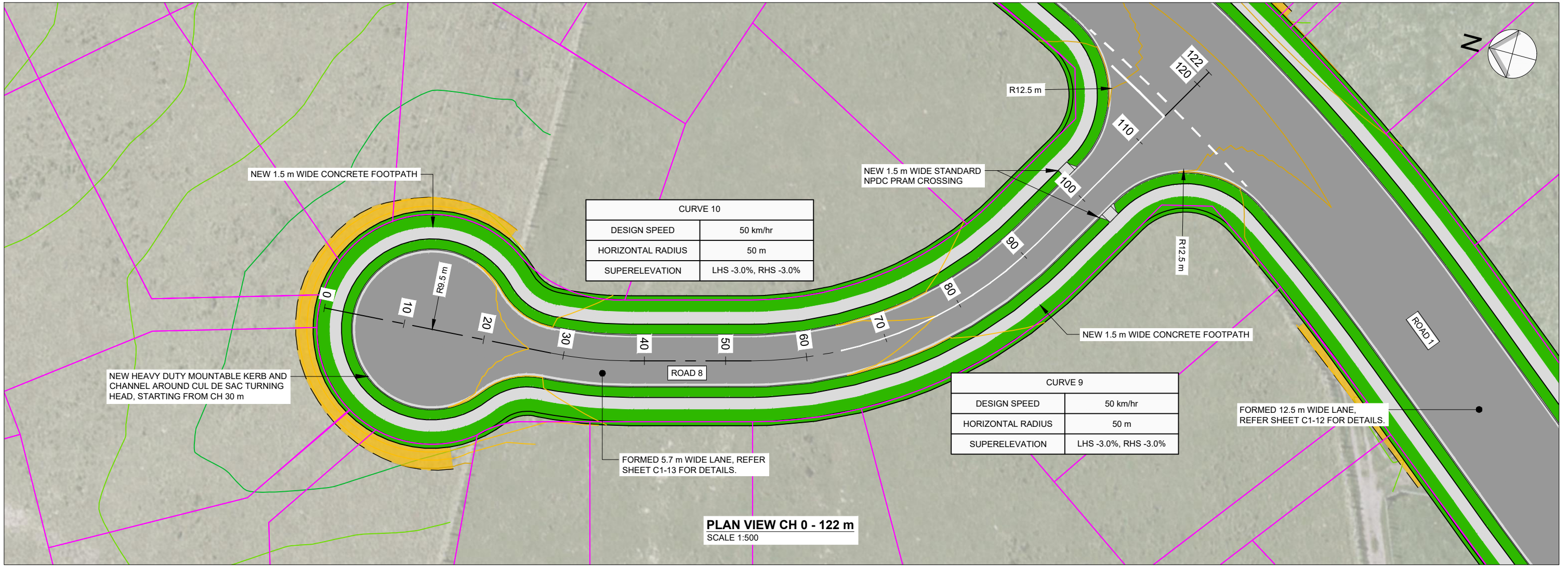
Sheet Title  
**ROAD 5  
PLAN AND LONGSECTION  
CH 0 - 148 m**

Drawing No.  
**100-433**

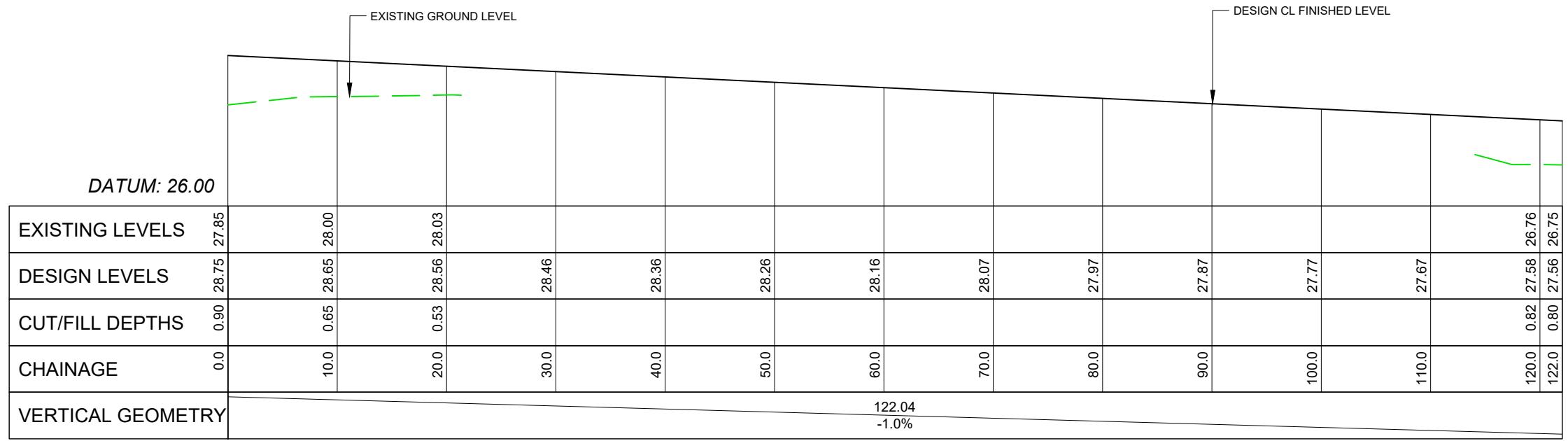
Job No. **3917**  
Sheet No. **C1-9**

**A3**  
REV.  
**D**





**PLAN VIEW CH 0 - 122 m**  
SCALE 1:500



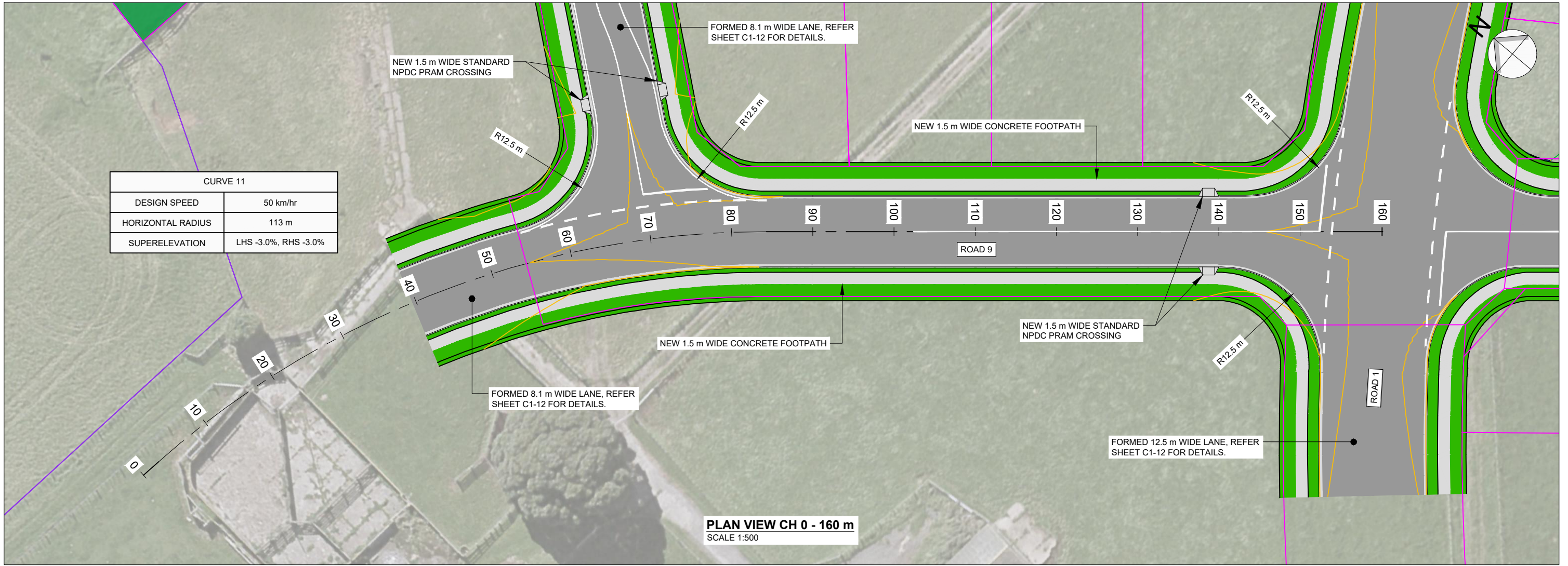
**LONGSECTION CH 0 - 122 m**  
SCALE 1:500H 1:100V

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File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C1-10 Plot Date: 25/05/2021 Plot Time: 14:33



File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C1-11 Plot Date: 25/05/2021 Plot Time: 14:33



CURVE 11	
DESIGN SPEED	50 km/hr
HORIZONTAL RADIUS	113 m
SUPERELEVATION	LHS -3.0%, RHS -3.0%

**PLAN VIEW CH 0 - 160 m**  
SCALE 1:500

	DATUM: 25.00																							
EXISTING LEVELS																								
DESIGN LEVELS	26.20	26.25	26.31	26.36	26.42	26.47	26.53	26.58	26.64	26.69	26.75	26.80	26.86	26.91	26.97	27.02	27.08							
CUT/FILL DEPTHS																								
CHAINAGE	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0	120.0	130.0	140.0	150.0	160.0							
VERTICAL GEOMETRY	160.19 0.5%																							

**LONGSECTION CH 0 - 160 m**  
SCALE 1:500H 1:100V

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Client  
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Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

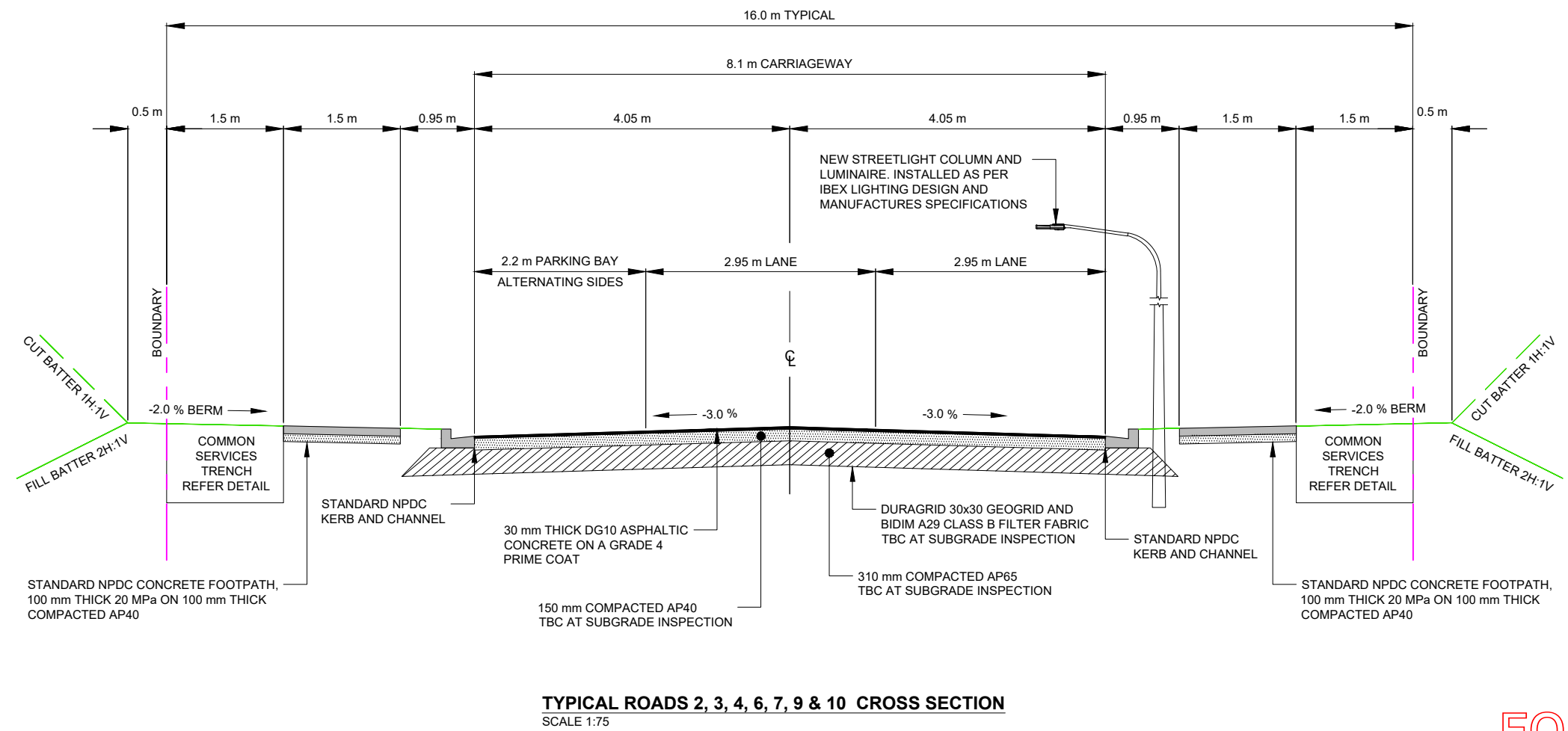
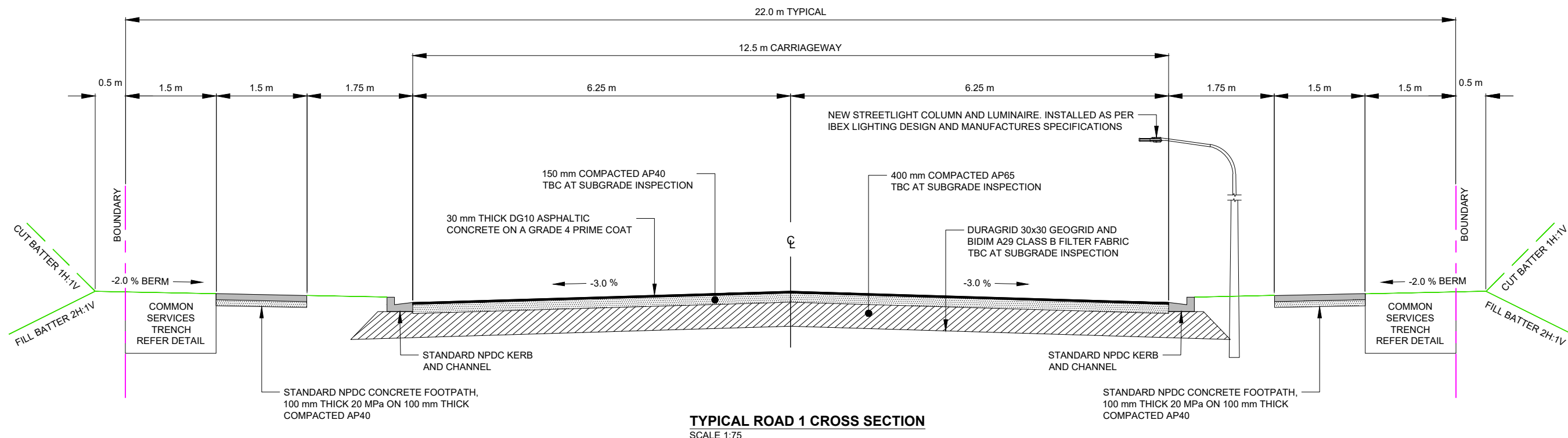
Sheet Title  
**ROAD 9  
PLAN AND LONGSECTION  
CH 0 - 160 m**

Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C1-11</b>	REV. <b>D</b>



**NOTES**

1. EXISTING AND PROPOSED SERVICES NOT SHOWN FOR CLARITY.



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DATE	REV	REV RECORD	BY	CHD	VER	APP

Client  
**ROBE & ROCHE INVESTMENTS LTD**

Project  
**PROPOSED DEVELOPMENT PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**CONSTRUCTION DETAILS**

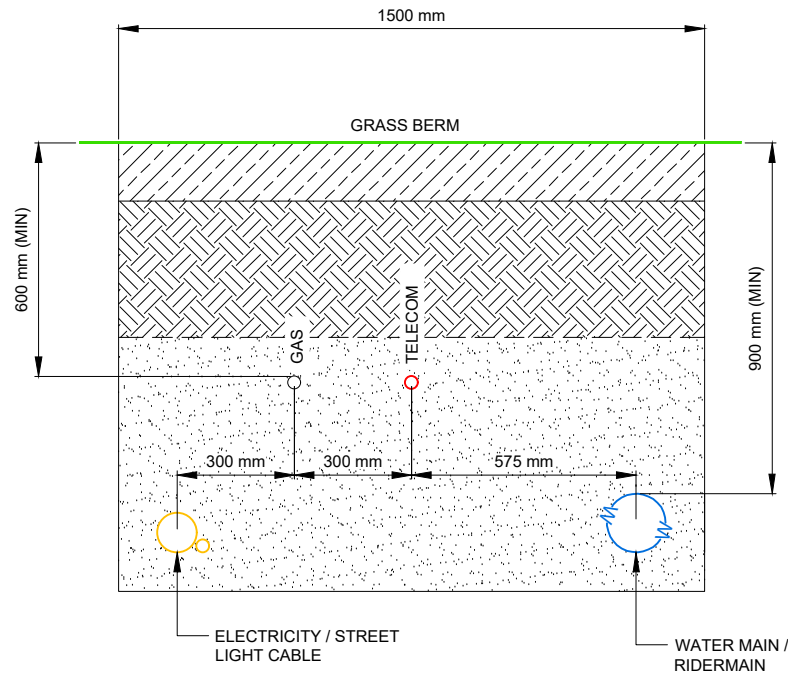
Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C1-12</b>	REV. <b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C1-12 Plot Date: 25/05/2021 Plot Time: 14:33

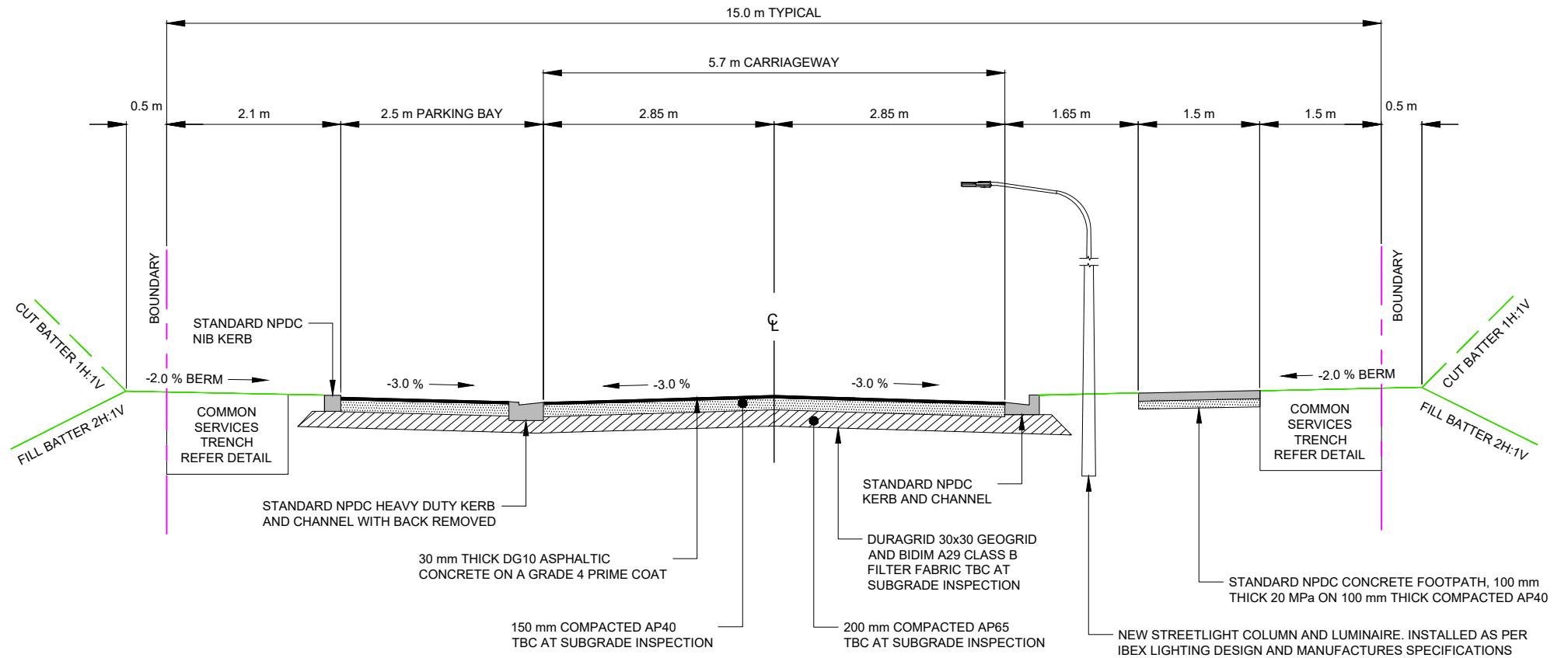


**NOTES**

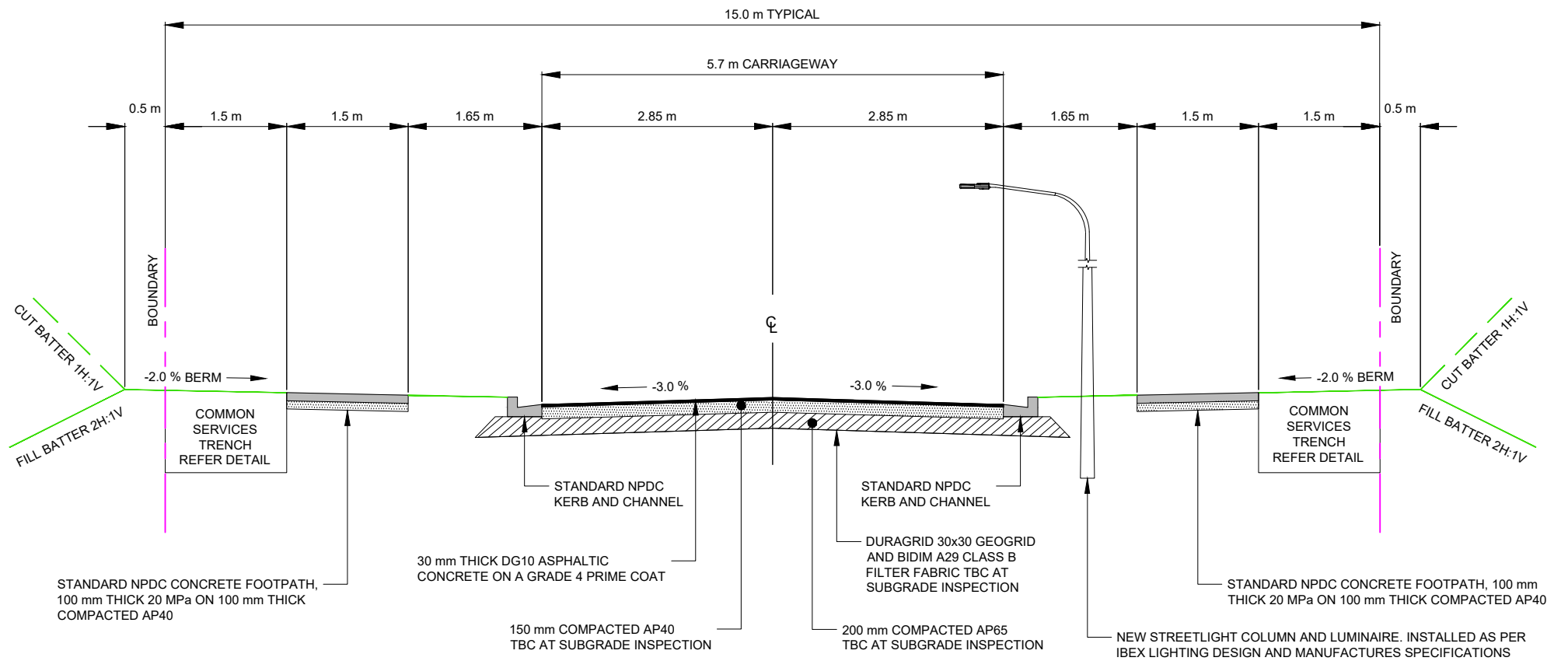
1. EXISTING AND PROPOSED SERVICES NOT SHOWN FOR CLARITY.



**COMMON SERVICES TRENCH**  
SCALE 1:20



**TYPICAL ROAD 5 CROSS SECTION**  
SCALE 1:75



**TYPICAL ROAD 8 CROSS SECTION**  
SCALE 1:75

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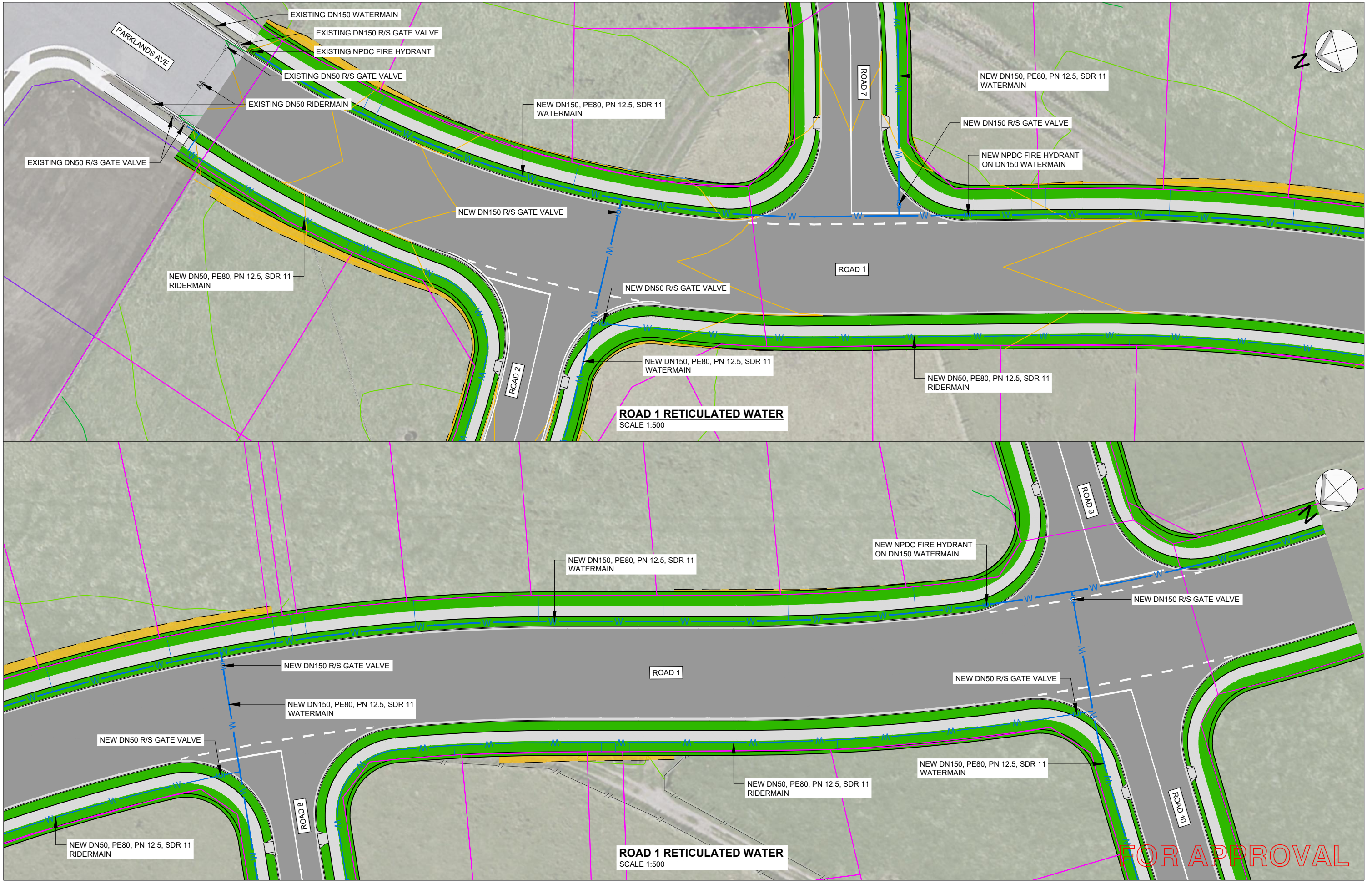
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**CONSTRUCTION DETAILS**

Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C1-13</b>	REV. <b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C1-13 Plot Date: 25/05/2021 Plot Time: 14:33





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DATE	REV	REV RECORD	BY	CHD	VER	APP

Client  
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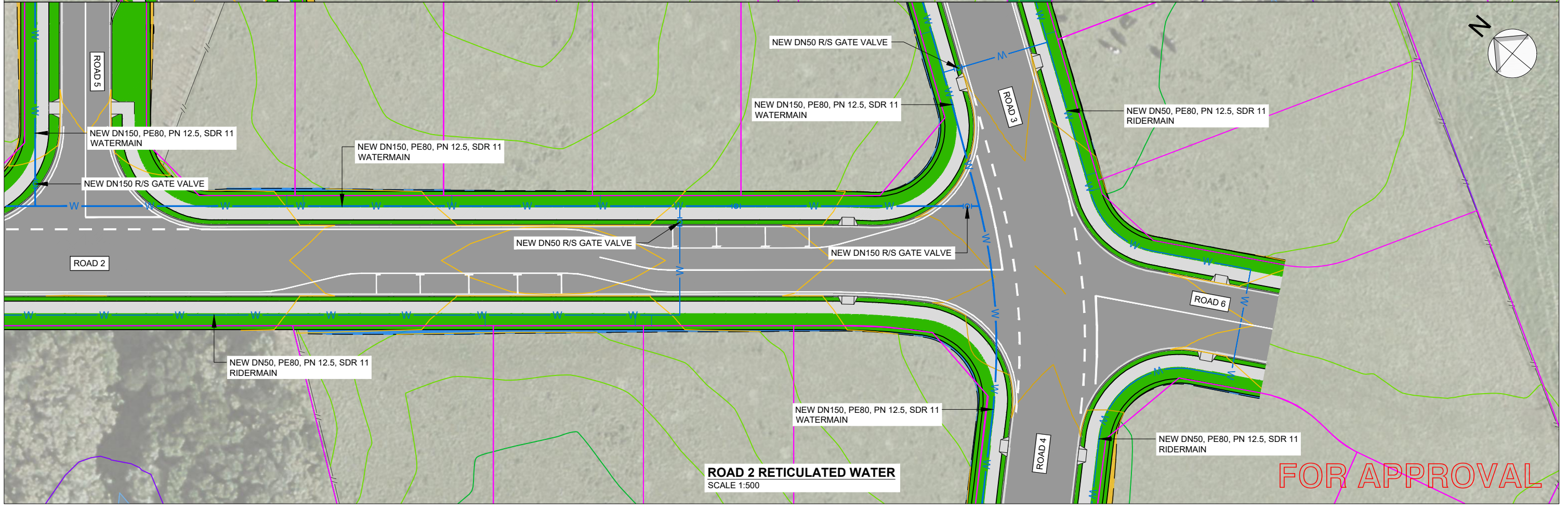
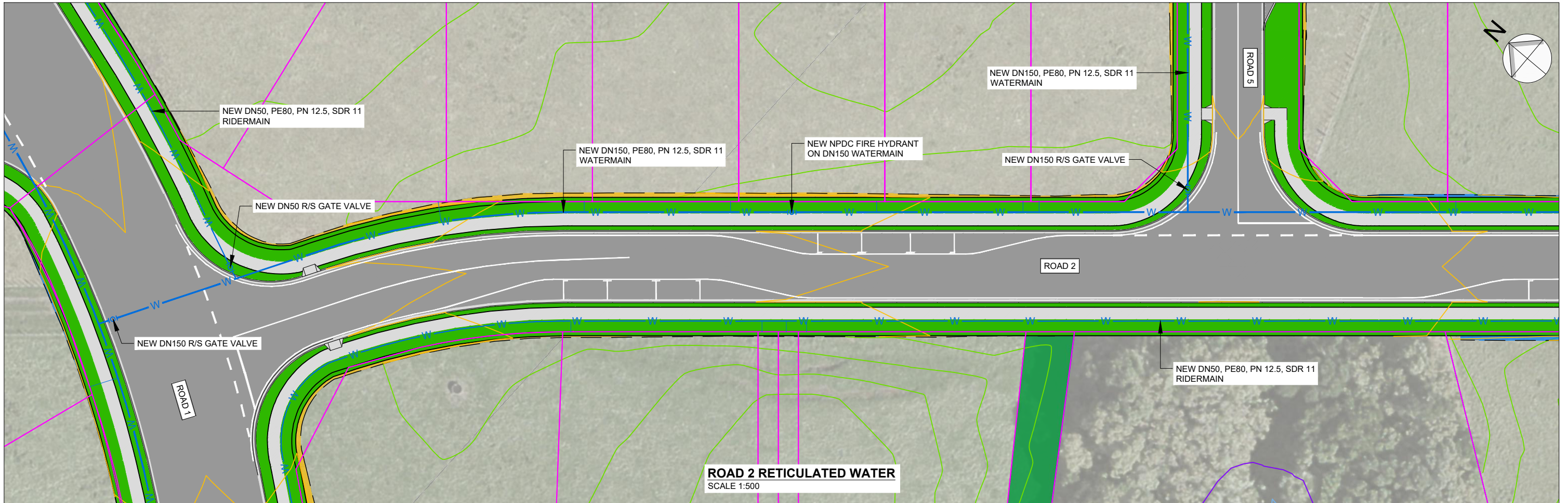
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 1  
RETICULATED WATER  
LAYOUT PLAN**

Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C2-1</b>	REV. <b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C2-1 Plot Date: 25/05/2021 Plot Time: 14:34





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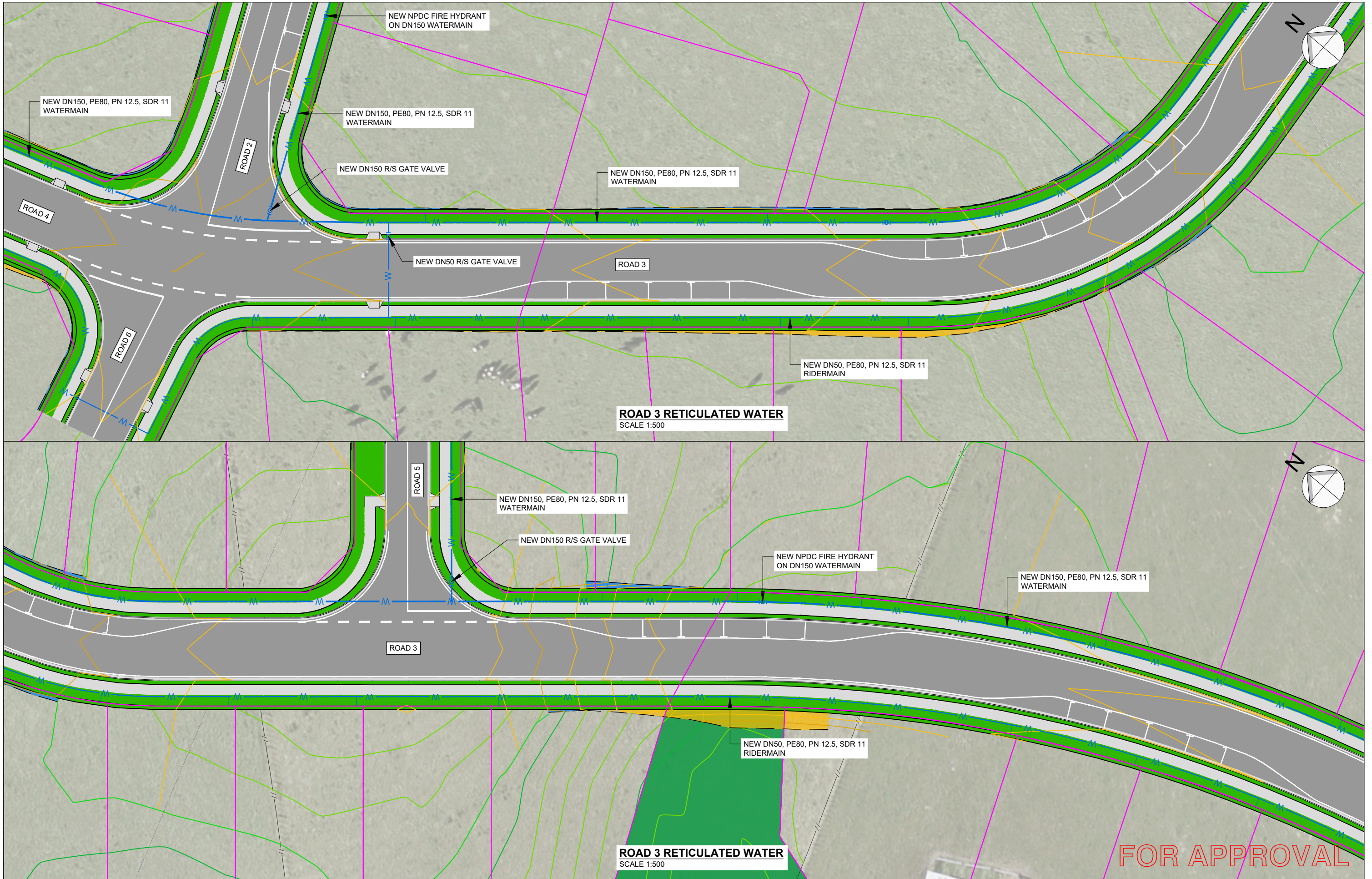
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 2  
RETICULATED WATER  
LAYOUT PLAN**

Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C2-2</b>	REV. <b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C2-2 Plot Date: 25/05/2021 Plot Time: 14:34






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DATE	REV	REV RECORD	BY	CHD	VER	APP

Client  
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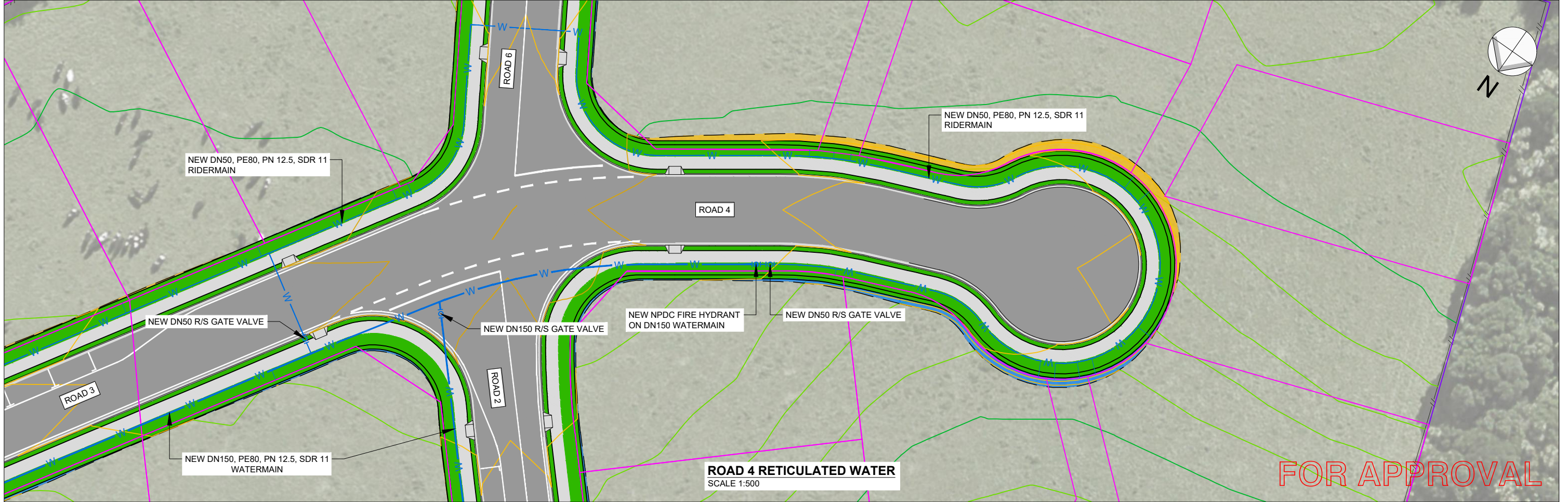
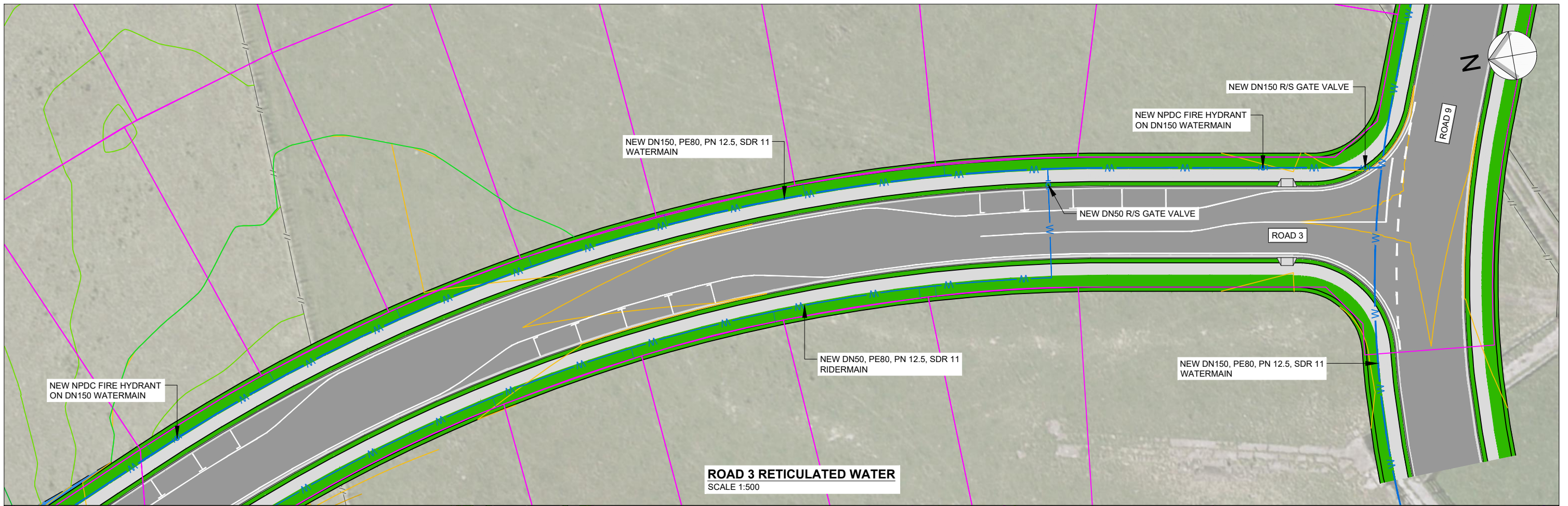
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 3  
RETICULATED WATER  
LAYOUT PLAN**

Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C2-3</b>	REV. <b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C2-3 Plot Date: 25/05/2021 Plot Time: 14:34





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Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROADS 3 & 4  
RETICULATED WATER  
LAYOUT PLAN**

Drawing No.  
**100-433**

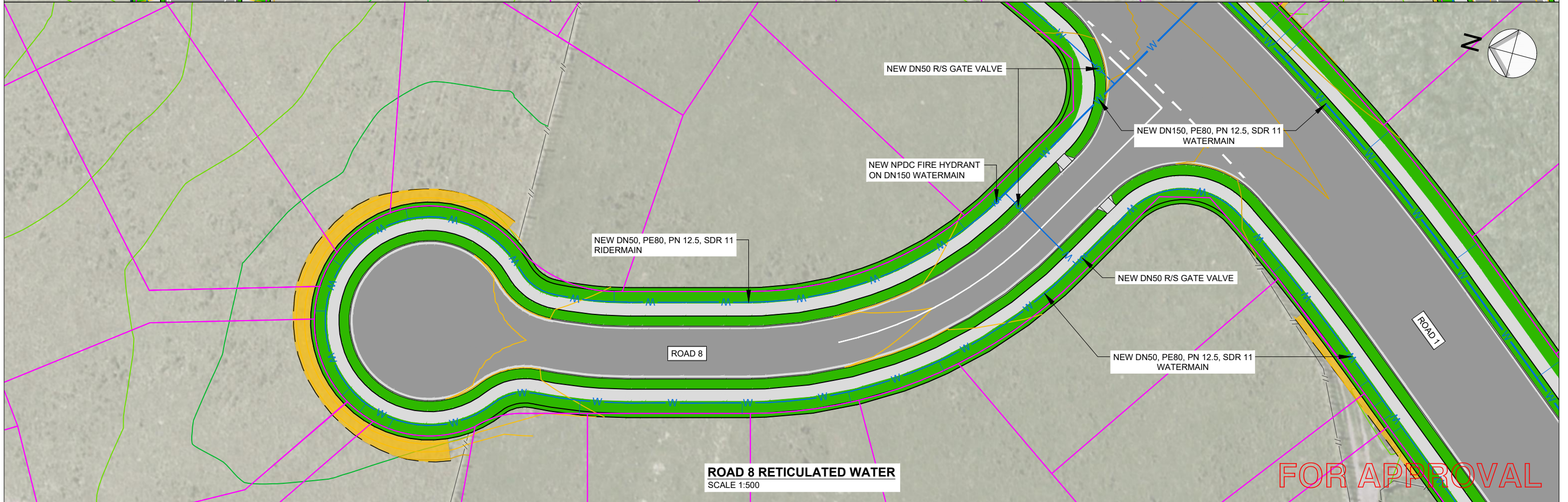
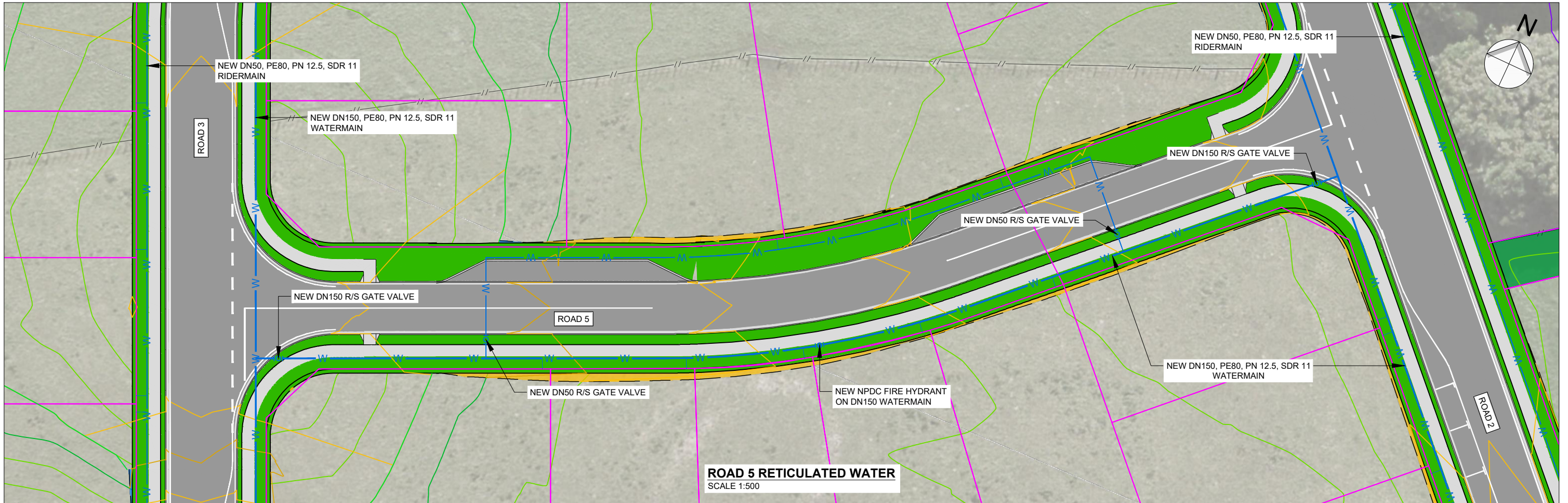
Job No.  
**3917**

Sheet No.  
**C2-4**

**A3**  
REV.  
**D**

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C2-4 Plot Date: 25/05/2021 Plot Time: 14:34





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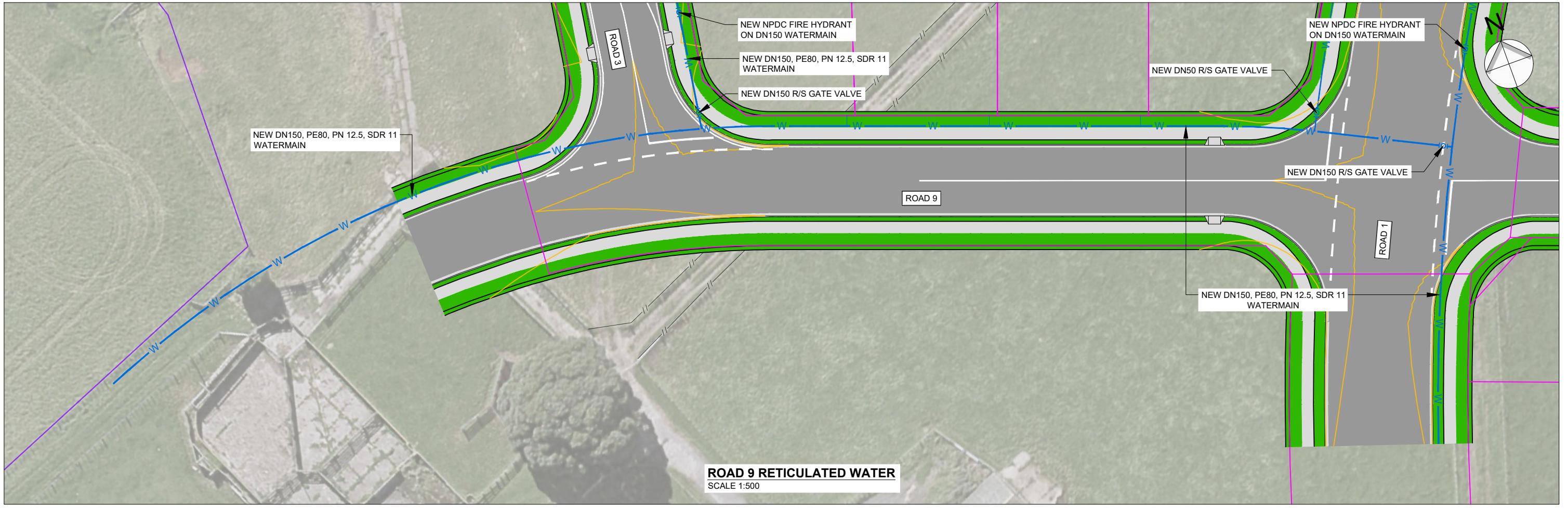
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROADS 5 & 8  
RETICULATED WATER  
LAYOUT PLAN**

Drawing No.	<b>100-433</b>	<b>A3</b>
Job No.	<b>3917</b>	REV.
Sheet No.	<b>C2-5</b>	<b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C2-5 Plot Date: 25/05/2021 Plot Time: 14:34





**ROAD 9 RETICULATED WATER**  
SCALE 1:500

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DATE	REV	REV RECORD	BY	CHD	VER	APP

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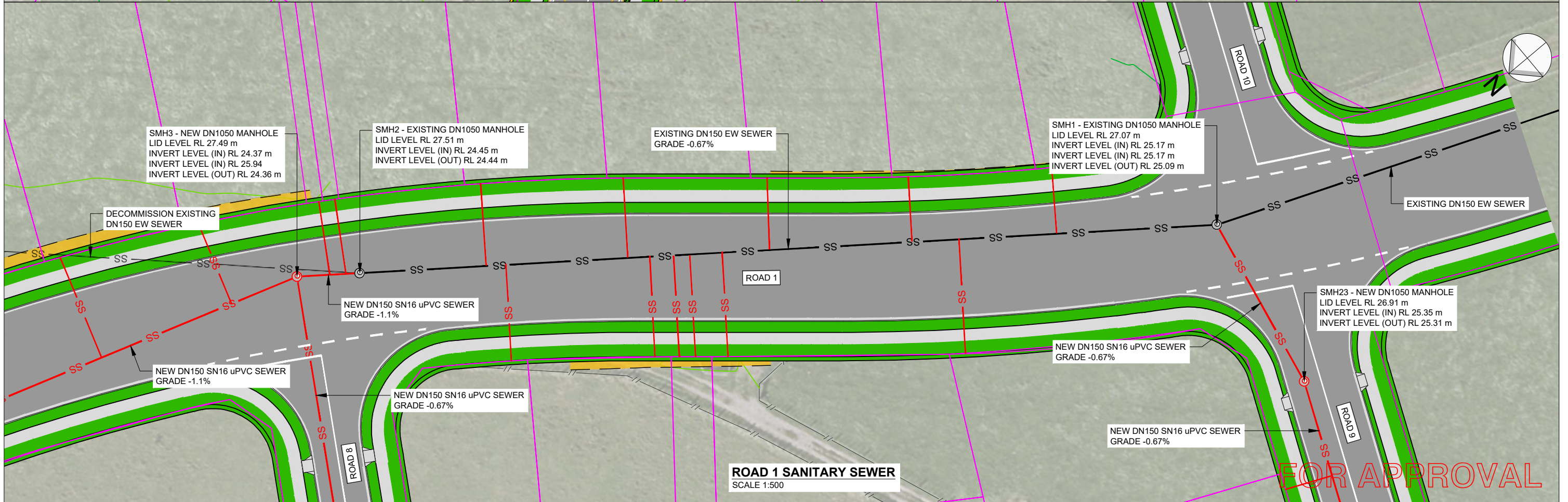
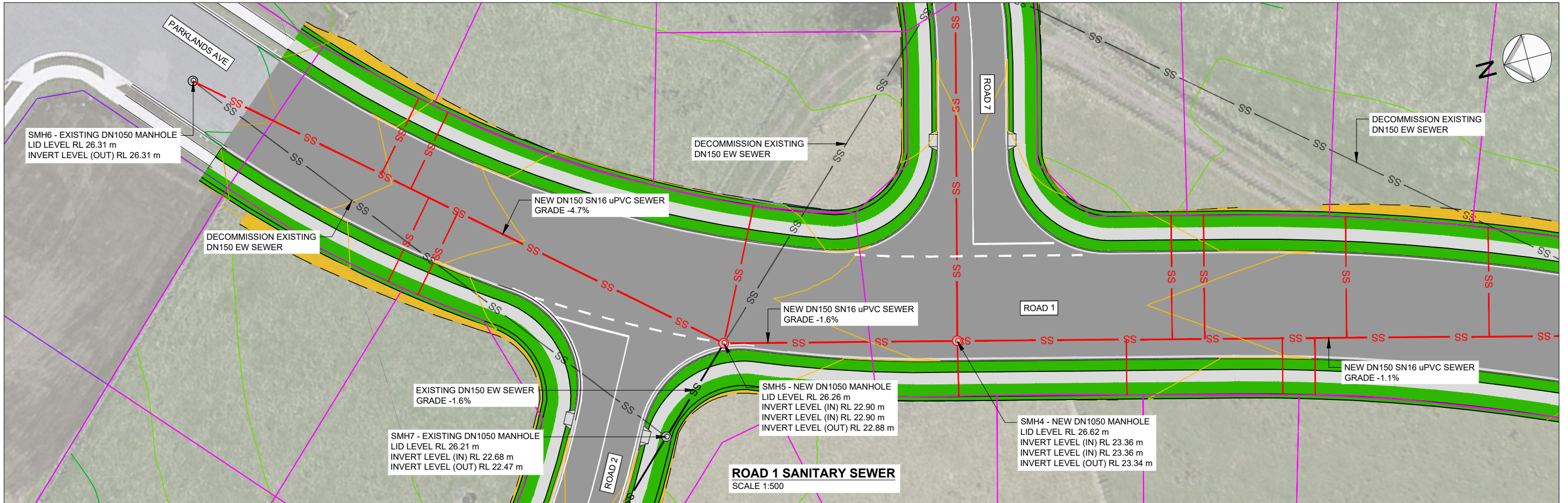
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 9  
RETICULATED WATER  
LAYOUT PLAN**

Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C2-6</b>	REV. <b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C2-6 Plot Date: 25/05/2021 Plot Time: 14:34





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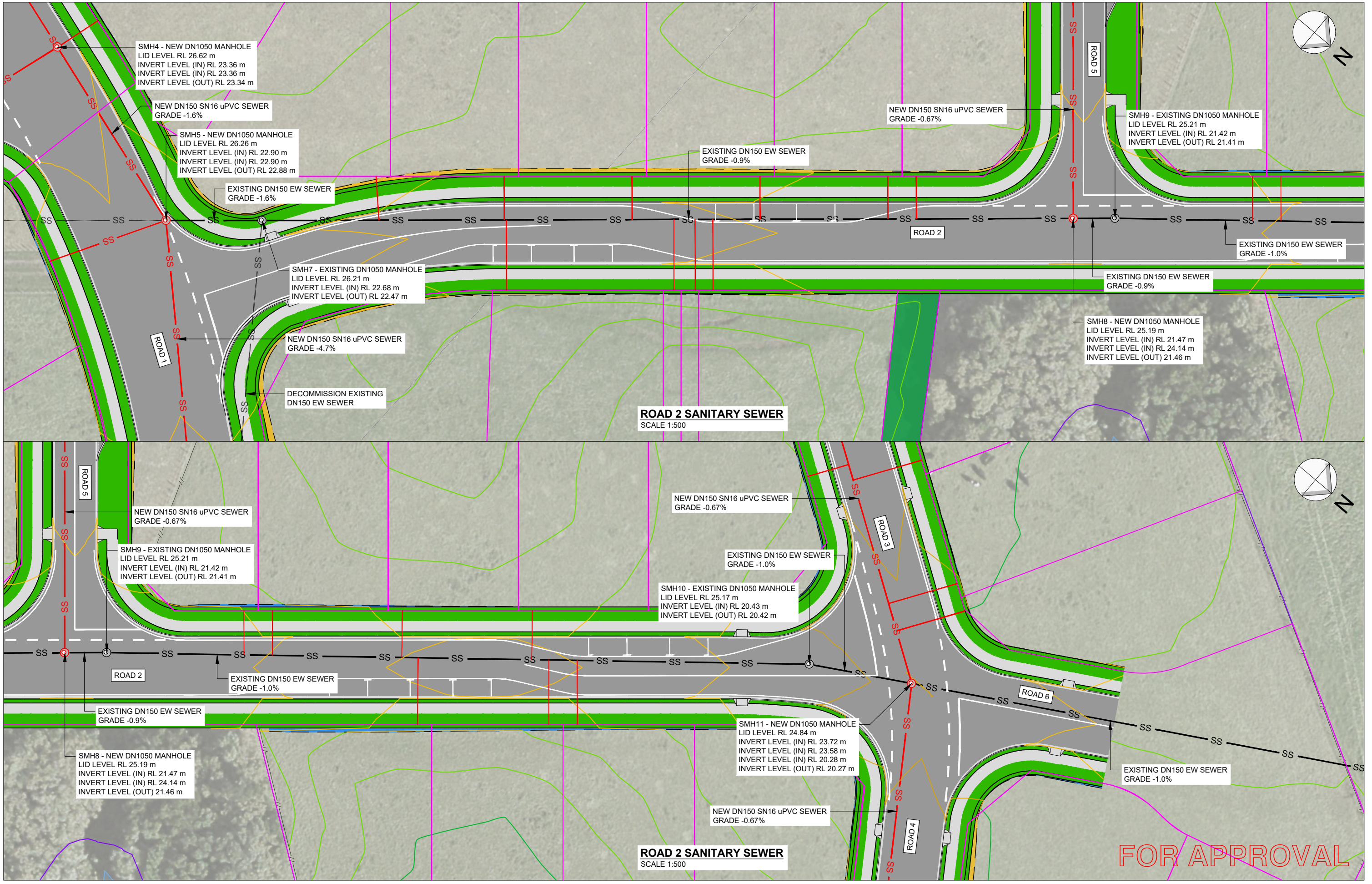
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 1  
SANITARY SEWER  
LAYOUT PLAN**

Drawing No.	<b>100-433</b>	<b>A3</b>
Job No.	<b>3917</b>	REV.
Sheet No.	<b>C3-1</b>	<b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C3-1 Plot Date: 25/05/2021 Plot Time: 14:35





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DATE	REV	REV RECORD	BY	CHD	VER	APP

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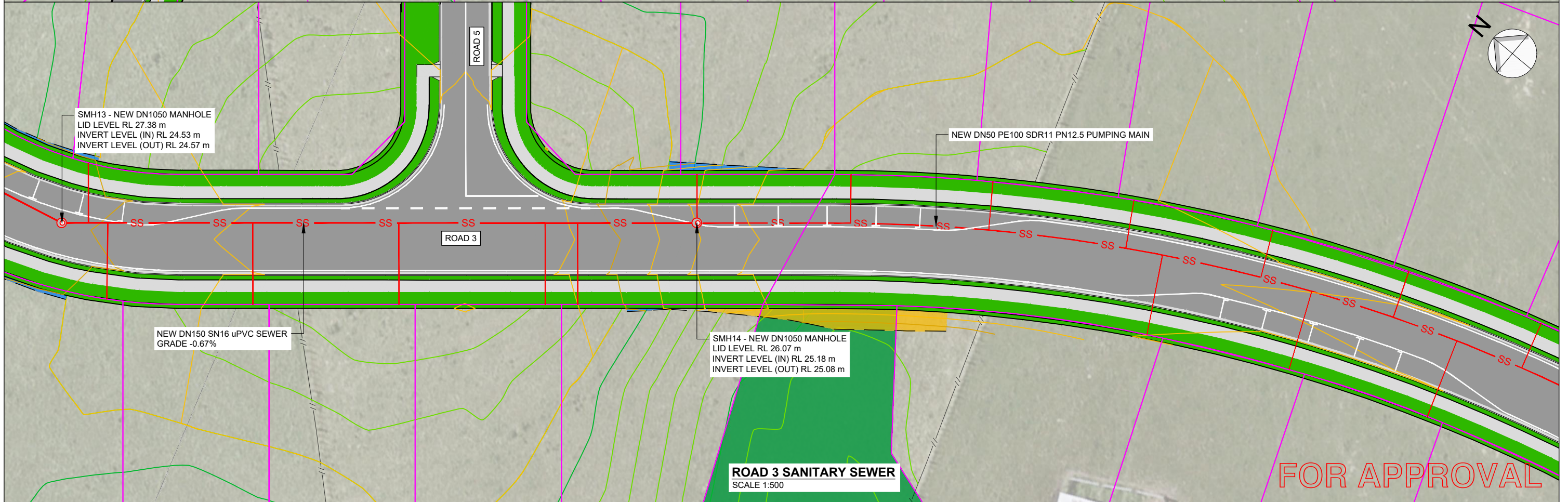
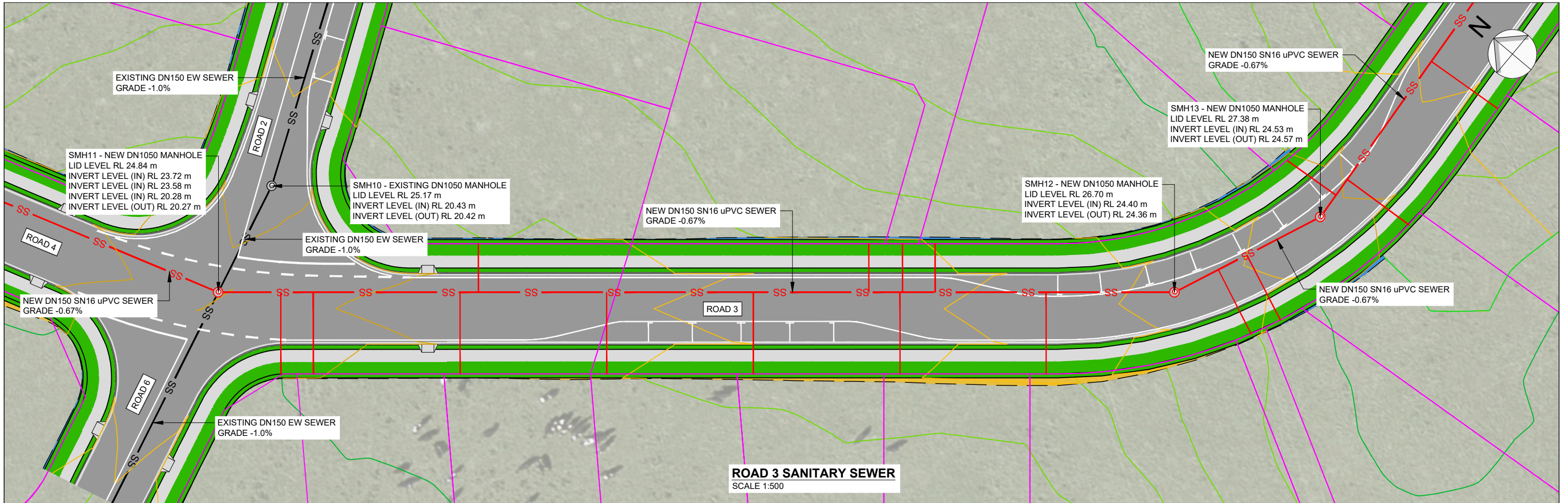
Project  
**PROPOSED DEVELOPMENT  
 PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 2  
 SANITARY SEWER  
 LAYOUT PLAN**

Drawing No.	<b>100-433</b>	<b>A3</b>
Job No.	<b>3917</b>	REV.
Sheet No.	<b>C3-2</b>	<b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C3-2 Plot Date: 25/05/2021 Plot Time: 14:35





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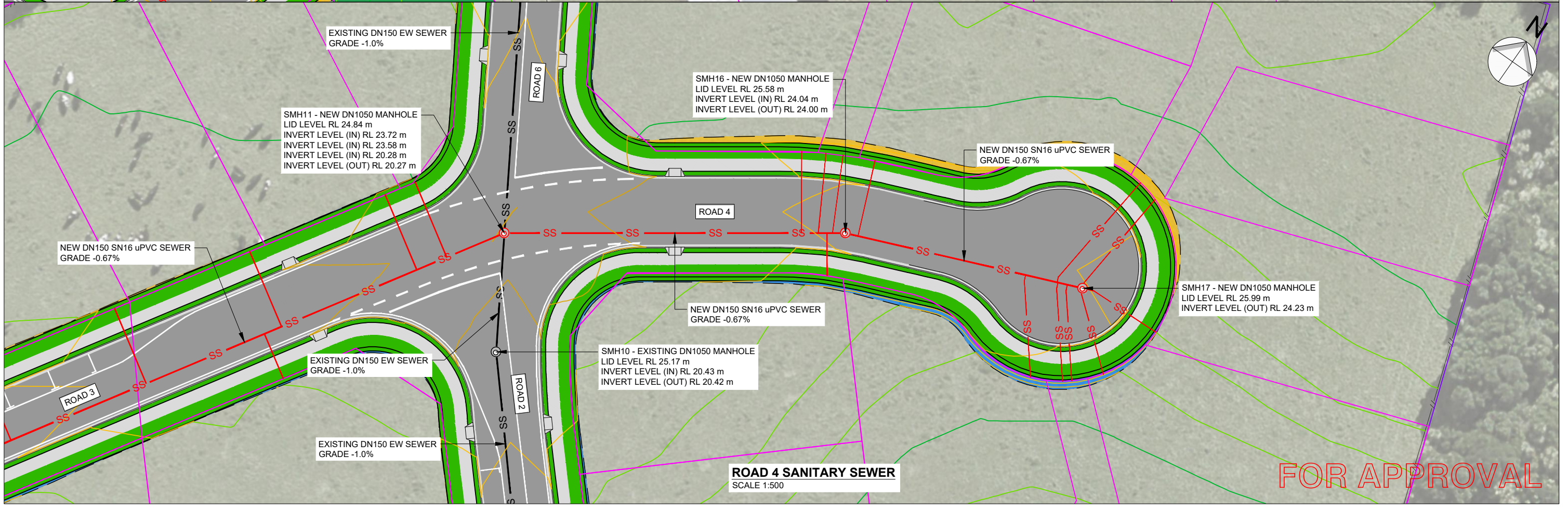
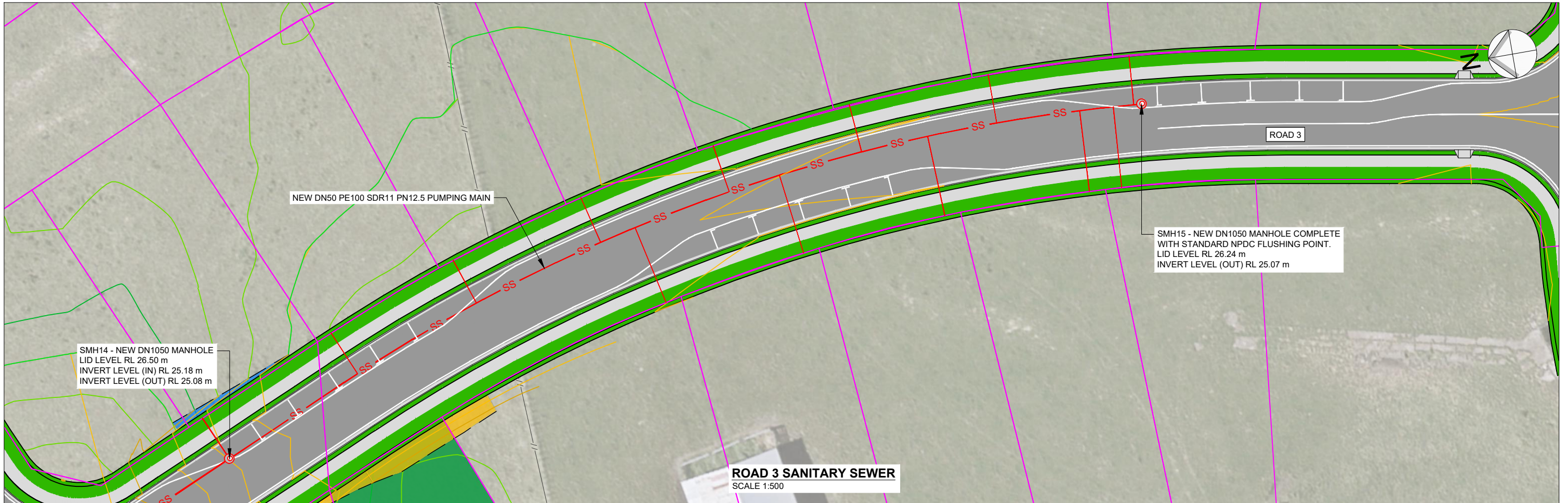
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 3  
SANITARY SEWER  
LAYOUT PLAN**

Drawing No.	<b>100-433</b>	<b>A3</b>
Job No.	<b>3917</b>	REV.
Sheet No.	<b>C3-3</b>	<b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C3-3 Plot Date: 25/05/2021 Plot Time: 14:35





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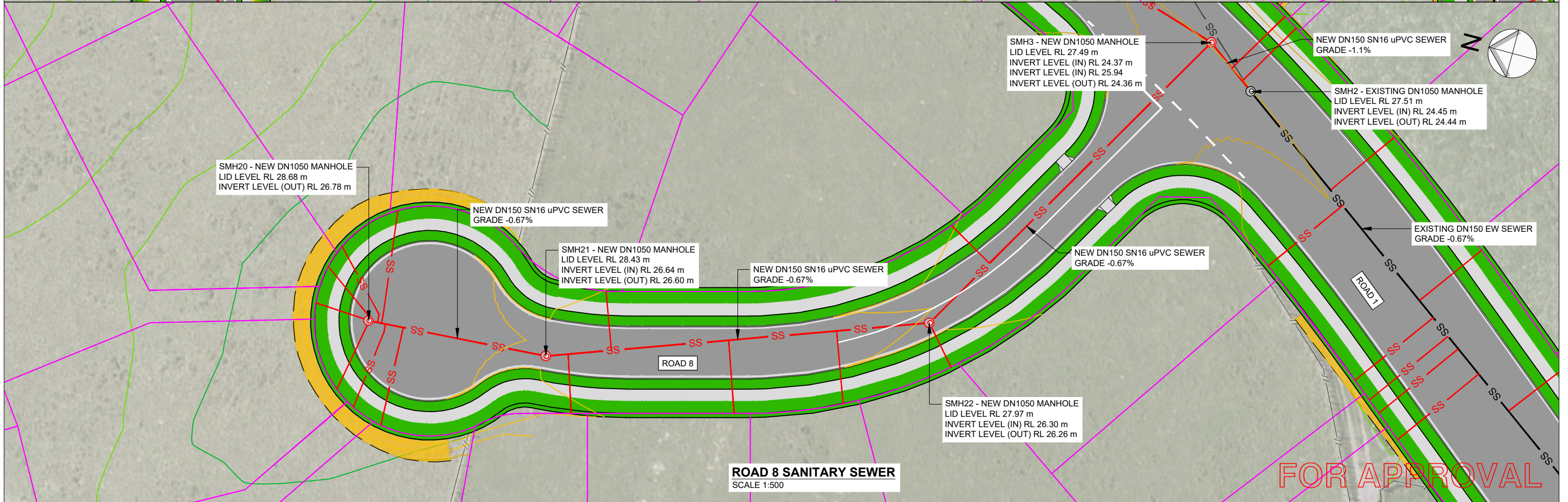
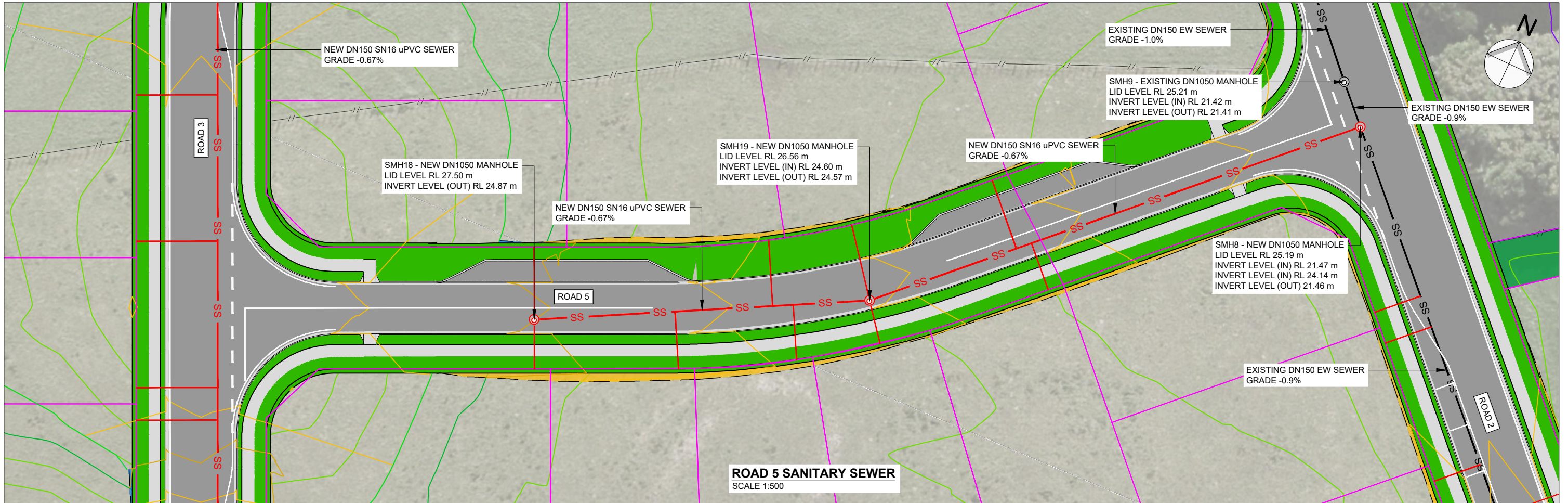
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROADS 3 & 4  
SANITARY SEWER  
LAYOUT PLAN**

Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C3-4</b>	REV. <b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C3-4 Plot Date: 25/05/2021 Plot Time: 14:35





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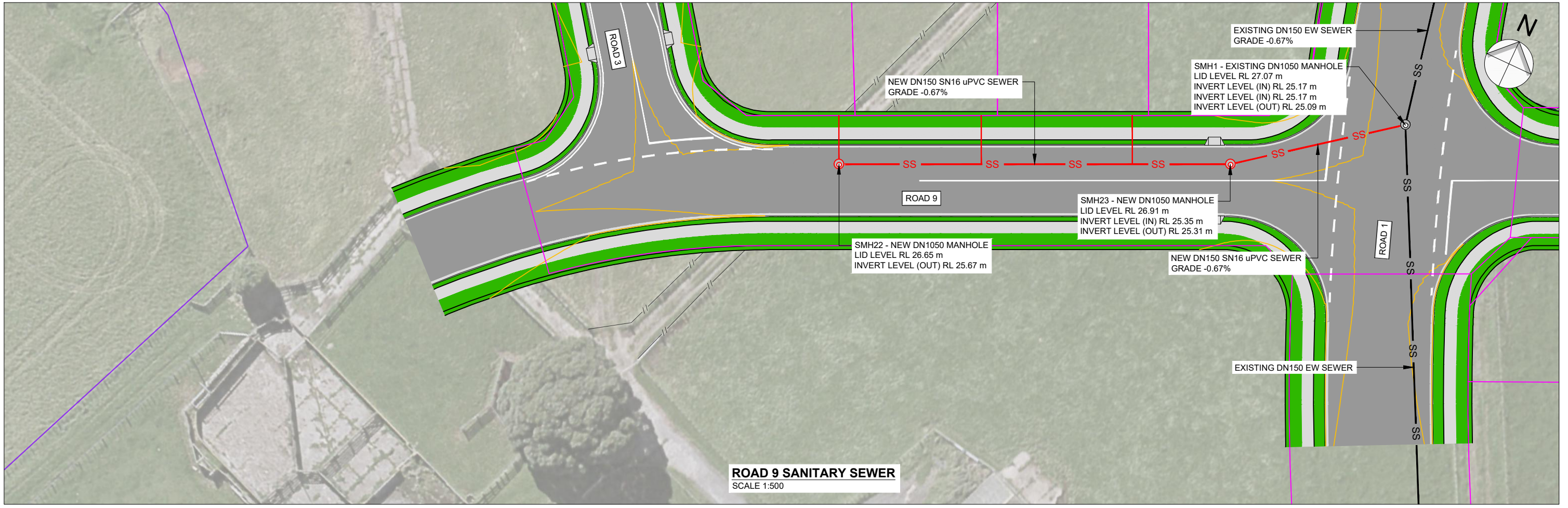
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROADS 5 & 8  
SANITARY SEWER  
LAYOUT PLAN**

Drawing No.	<b>100-433</b>	<b>A3</b>
Job No.	<b>3917</b>	REV.
Sheet No.	<b>C3-5</b>	<b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C3-5 Plot Date: 25/05/2021 Plot Time: 14:35





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Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 9  
SANITARY SEWER  
LAYOUT PLAN**

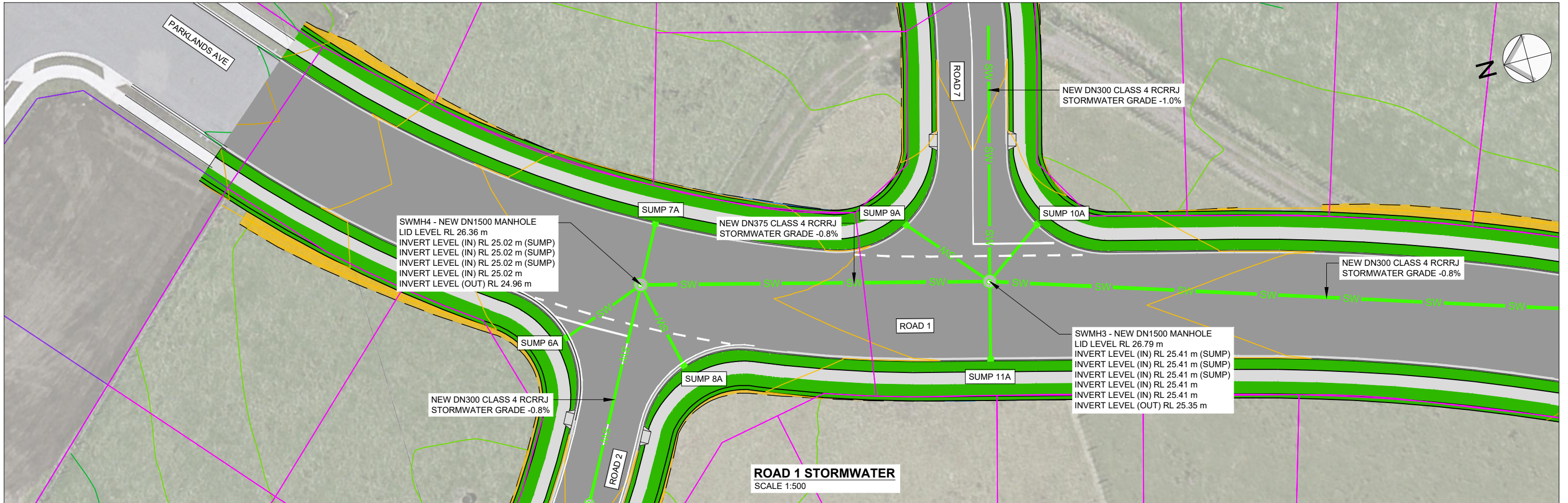
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**100-433**

Job No. **3917** Sheet No. **C3-6**

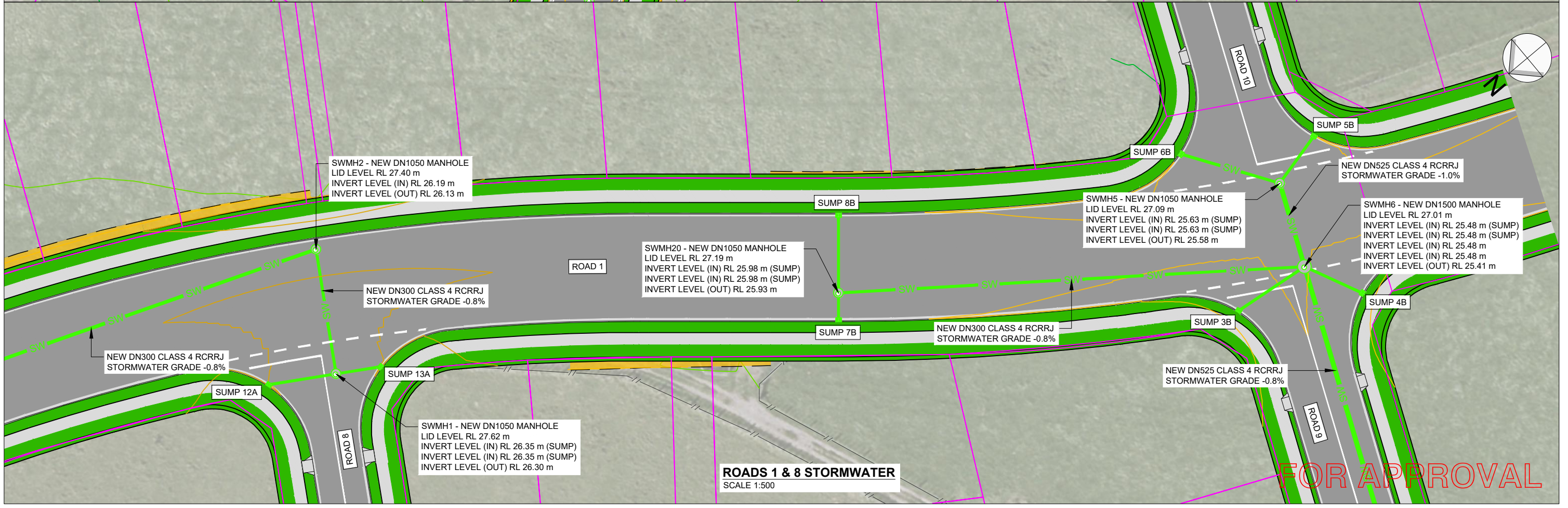
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REV.  
**D**

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C3-6 Plot Date: 25/05/2021 Plot Time: 14:35





**ROAD 1 STORMWATER**  
SCALE 1:500



**ROADS 1 & 8 STORMWATER**  
SCALE 1:500

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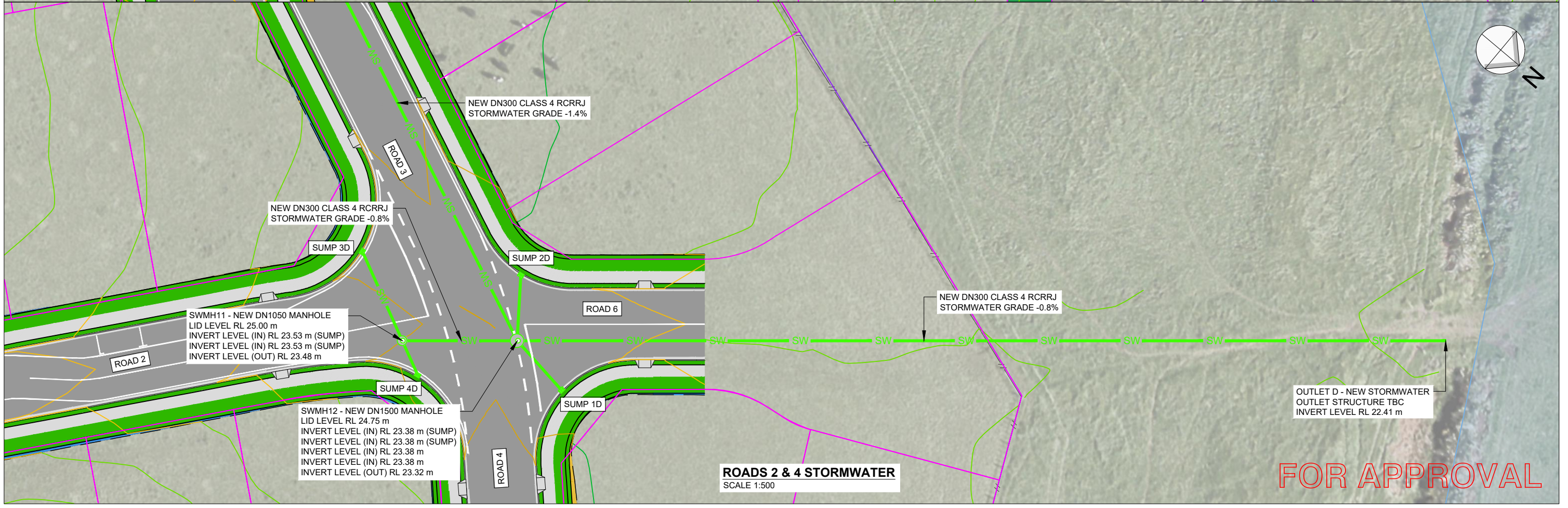
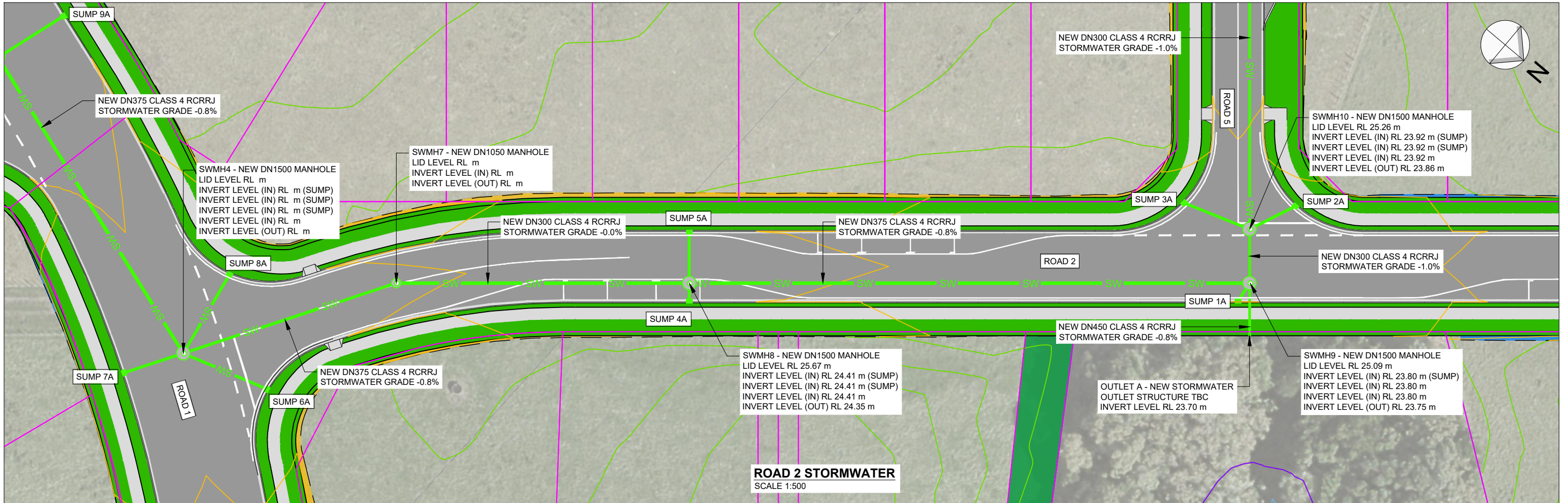
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROADS 1 & 8  
STORMWATER  
LAYOUT PLAN**

Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C4-1</b>	REV. <b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C4-1 Plot Date: 25/05/2021 Plot Time: 14:36





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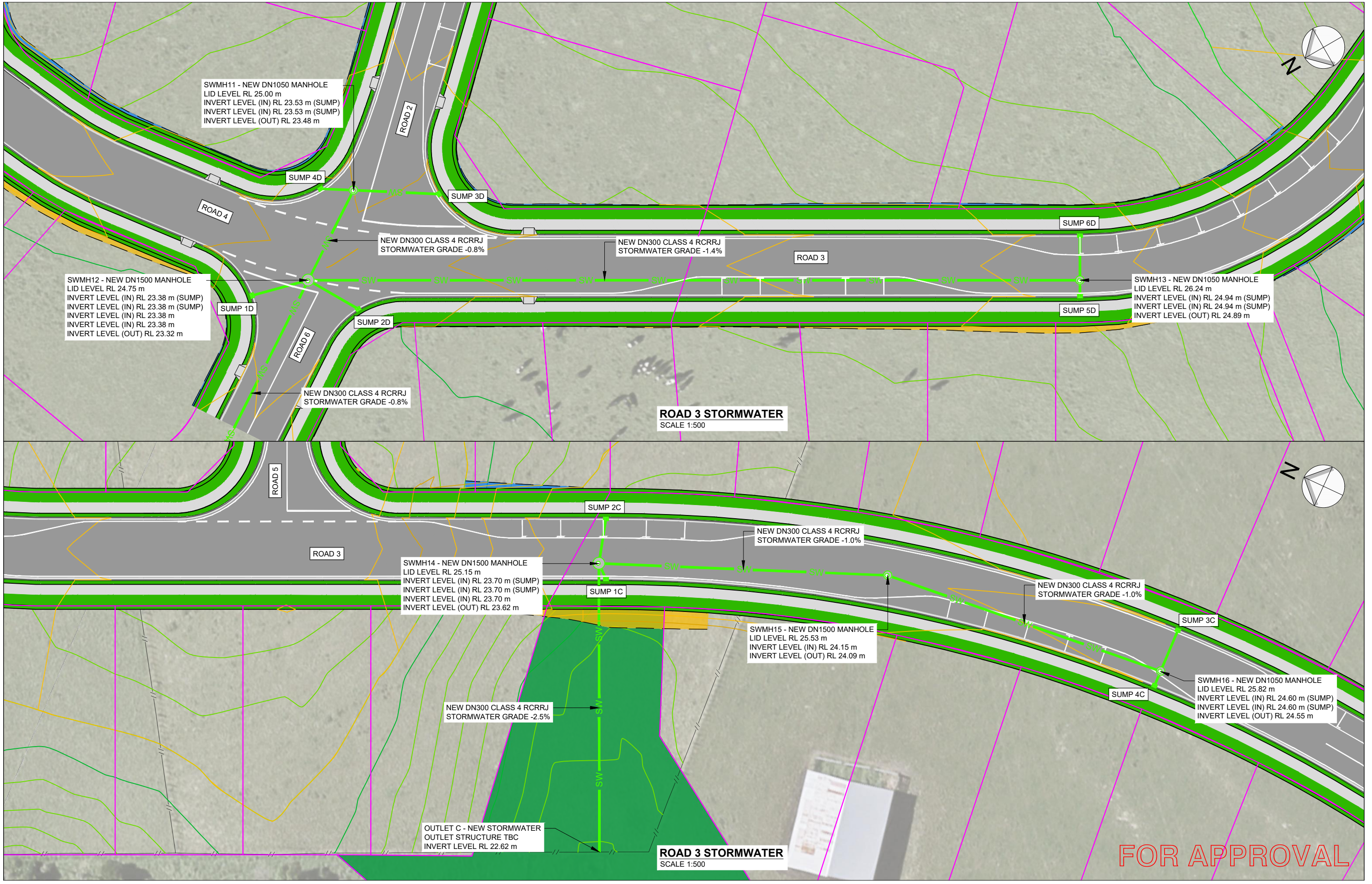
Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROADS 2 & 4  
STORMWATER  
LAYOUT PLAN**

Drawing No.	<b>100-433</b>	A3 REV.
Job No.	<b>3917</b>	
Sheet No.	<b>C4-2</b>	D

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C4-2 Plot Date: 25/05/2021 Plot Time: 14:36





File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C4-3 Plot Date: 25/05/2021 Plot Time: 14:36



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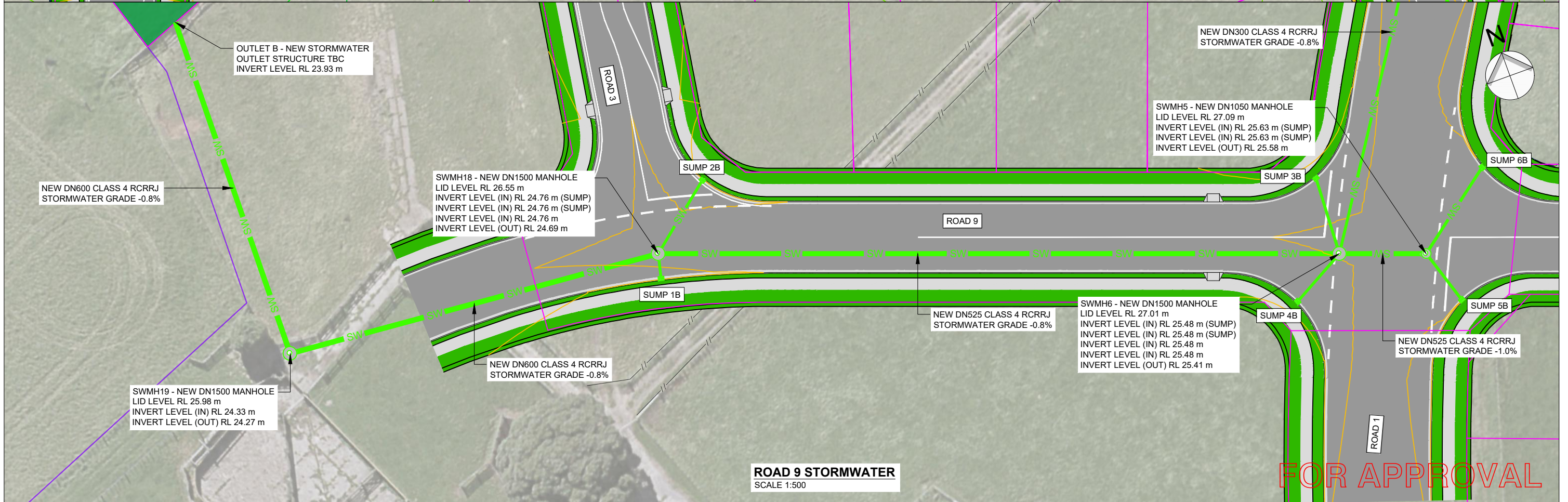
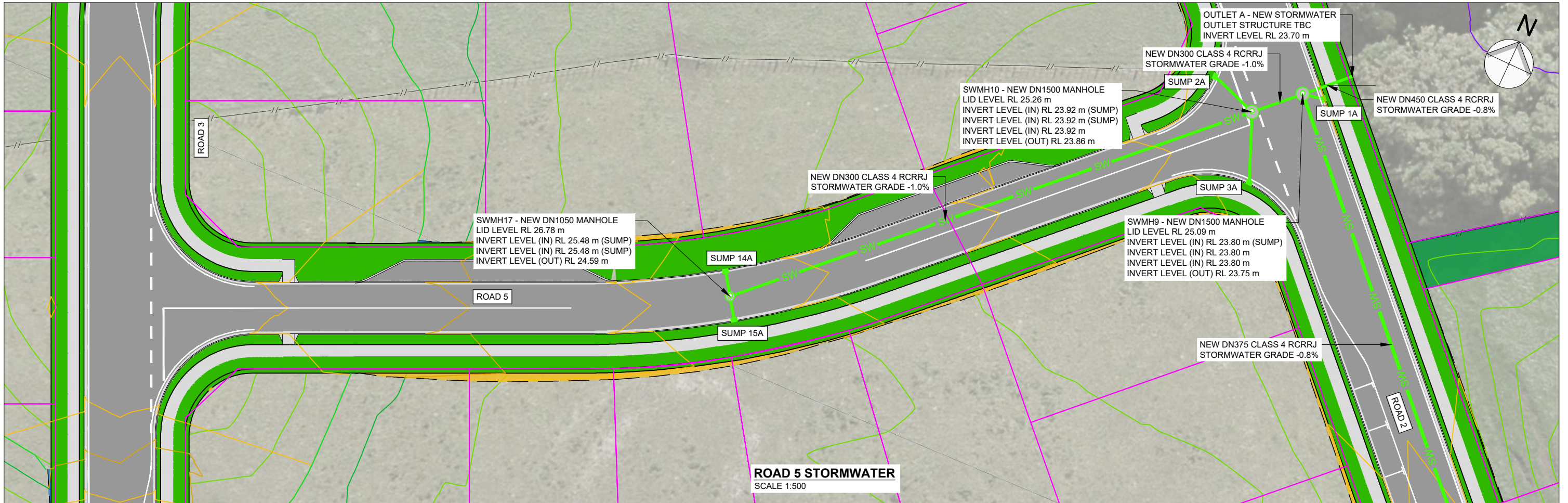
Client  
**ROBE & ROCHE INVESTMENTS LTD**

Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROAD 3  
STORMWATER  
LAYOUT PLAN**

Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C4-3</b>	REV. <b>D</b>





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Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**ROADS 5 & 9  
STORMWATER  
LAYOUT PLAN**

Drawing No.  
**100-433**

Job No. **3917** Sheet No. **C4-4**

**A3**  
REV.  
**D**

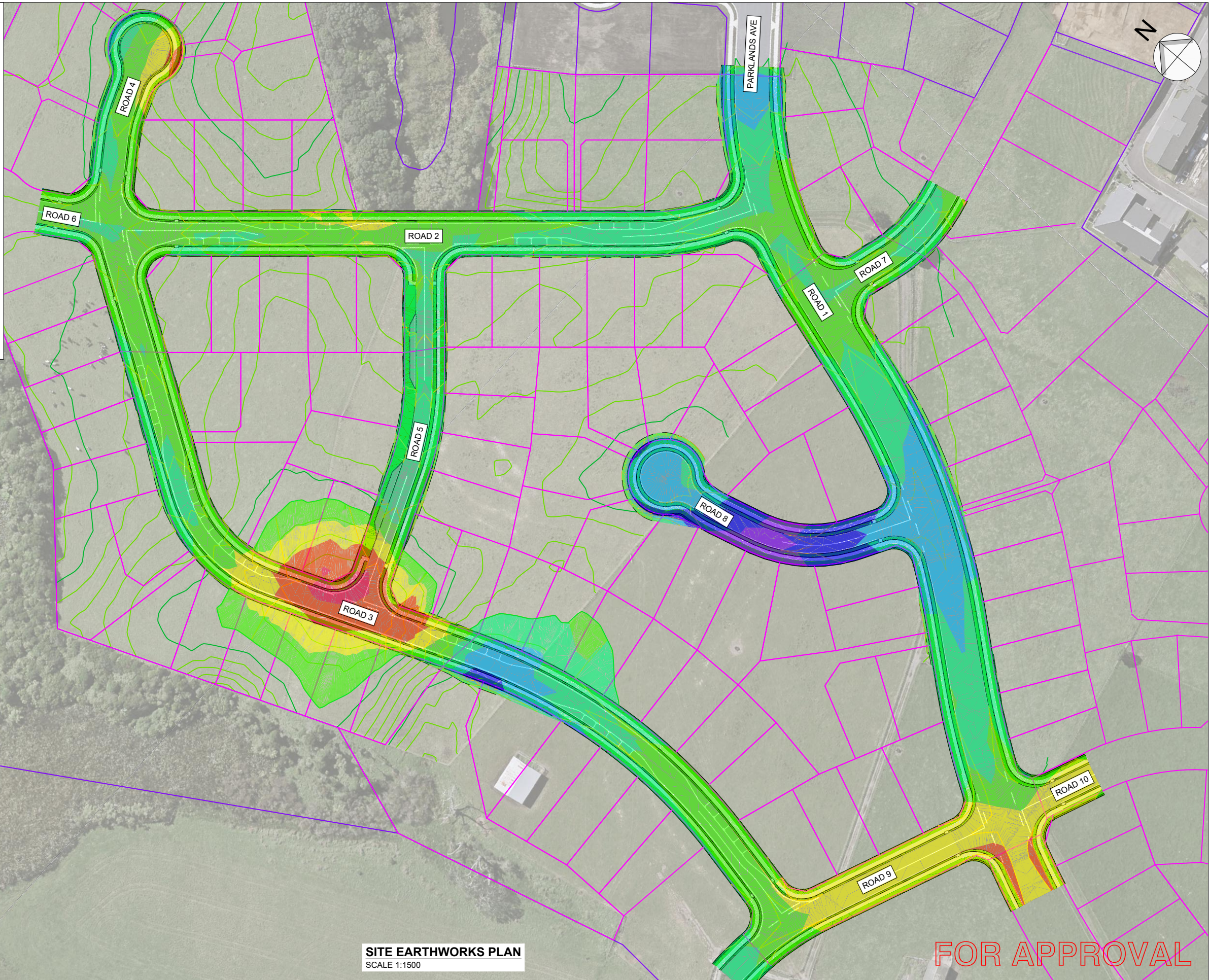


**SURFACE ANALYSIS: ELEVATION RANGES**

NUMBER	COLOUR	MIN ELEVATION (m)	MAX ELEVATION (m)
1	Red	-2.000	-1.500
2	Orange	-1.500	-1.000
3	Yellow	-1.000	-0.500
4	Light Green	-0.500	0.000
5	Green	0.000	0.500
6	Light Blue	0.500	1.000
7	Blue	1.000	1.500
8	Purple	1.500	2.000

**EARTHWORKS**

1. SURFACE COMPARISON IS BASED ON A COMBINATION OF MCKINLAY TOPOGRAPHICAL SURVEY / NPDC LIDAR AND CURRENT DESIGN SURFACE.
2. TOTAL VOLUME OF PROPOSED EARTHWORKS.
  - CUT TO CERTIFIED FILL 4,000 m<sup>3</sup> (SOLID MEASURE)
  - CUT TO WASTE 9,000 m<sup>3</sup> (SOLID MEASURE)
  - GRANULAR PAVEMENT 5,700 m<sup>3</sup> (SOLID MEASURE)



**SITE EARTHWORKS PLAN**  
SCALE 1:1500

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Project  
**PROPOSED DEVELOPMENT  
PARKLANDS AVE, BELL BLOCK**

Sheet Title  
**SITE EARTHWORKS PLAN**

Drawing No. <b>100-433</b>		<b>A3</b>
Job No. <b>3917</b>	Sheet No. <b>C5-1</b>	REV. <b>D</b>

File Name: Z:\JOB\Sg 3501-4000\3901-3950\3917 Parklands Ave Subdivision - Stage 6\DWG\100-433.dwg - C5-1 Plot Date: 25/05/2021 Plot Time: 14:36