

TE KOHA

ENGINEERING DRAWINGS: SITE

PROUDLY DEVELOPED BY



IN PARTNERSHIP WITH



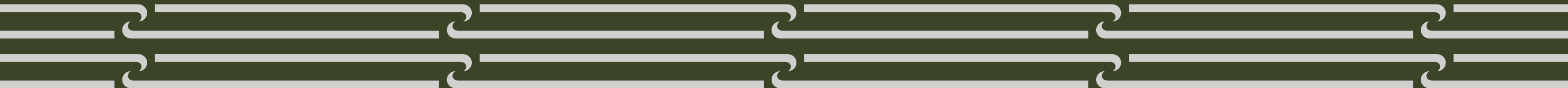
STRATEGIC PARTNER



SECTIONS REPRESENTED BY



TEKOHA-TOKOROA.NZ





WWW.ENVELOPE-ENG.CO.NZ

CLIENT:
RAUKAWA IWI DEVELOPMENT LTD

PROJECT:
PROPOSED SUBDIVISION
TOKOROA EAST SCHOOL
MAIN ROAD, TOKOROA

PLAN SET:
CIVIL ENGINEERING DRAWINGS

ISSUE:
FOR CONSTRUCTION


DATE:
29 APRIL 2025

REFERENCE:
1543-01



LOCATION PLAN
SCALE A1 - 1:1250, A3 - 1:2500



LEGEND:
 EXISTING CONTOURS SHOWN AT 0.5m INTERVALS

NOTES:

- LEVELS SHOWN ARE FROM STUART SURVEYING (MARCH 2021).
- LEVELS ARE IN TERMS OF MOTURIKI VERTICAL DATUM 1953 BY CONVERTING FROM NZVD 2016 USING LINZ CONVERSION TOOL.
 SURVEY ORIGIN OF LEVELS:
 SS 8 SO 52745
 RL = 332.163m
- COORDINATES ARE IN TERMS NZ GEODETIC DATUM 2000 - MT EDEN CIRCUIT
 ORIGIN OF COORDINATES
 SS 8 SO 52745
- SURVEY CONTOURS SHOWN ON THIS PLAN HAVE BEEN ELECTRONICALLY COMPUTED FROM SPOT HEIGHT DETERMINATIONS AND MAY NOT REPRESENT THE TRUE GROUND LEVELS. ANY CRITICAL HEIGHTS SHOULD BE CHECKED ON SITE PRIOR TO DESIGN AND CONSTRUCTION COMMENCING.

This design and drawing shall only be used for the purpose for which it was supplied and shall not be altered or reproduced without the permission of Envelope Engineering Limited. No liability shall be accepted for unauthorised use of this design and drawing.

REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29-04-25

PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
MAIN ROAD, TOKOROA

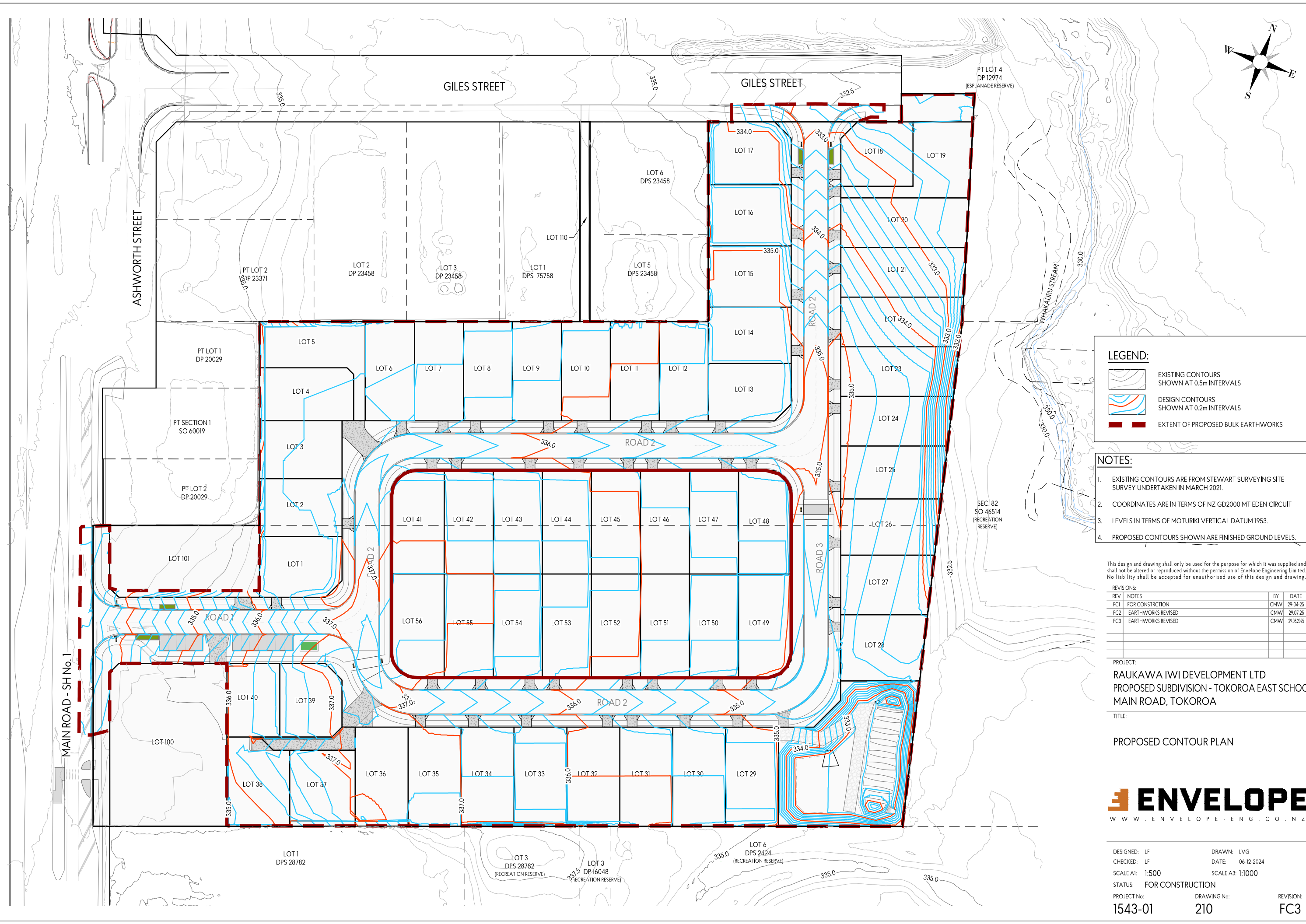
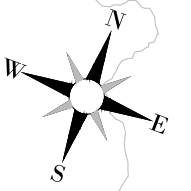
TITLE:
EXISTING CONTOURS



DESIGNED: LF
 CHECKED: LF
 SCALE A1: 1:500
 STATUS: FOR CONSTRUCTION
 PROJECT No: 1543-01

DRAWN: LVG
 DATE: 06-12-2024
 SCALE A3: 1:1000
 DRAWING No: 200

REVISION: FC1



LEGEND:

- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
- DESIGN CONTOURS SHOWN AT 0.2m INTERVALS
- EXTENT OF PROPOSED BULK EARTHWORKS

- NOTES:**
1. EXISTING CONTOURS ARE FROM STEWART SURVEYING SITE SURVEY UNDERTAKEN IN MARCH 2021.
 2. COORDINATES ARE IN TERMS OF NZ GD2000 MT EDEN CIRCUIT
 3. LEVELS IN TERMS OF MOTURIKI VERTICAL DATUM 1953.
 4. PROPOSED CONTOURS SHOWN ARE FINISHED GROUND LEVELS.

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REVISIONS:

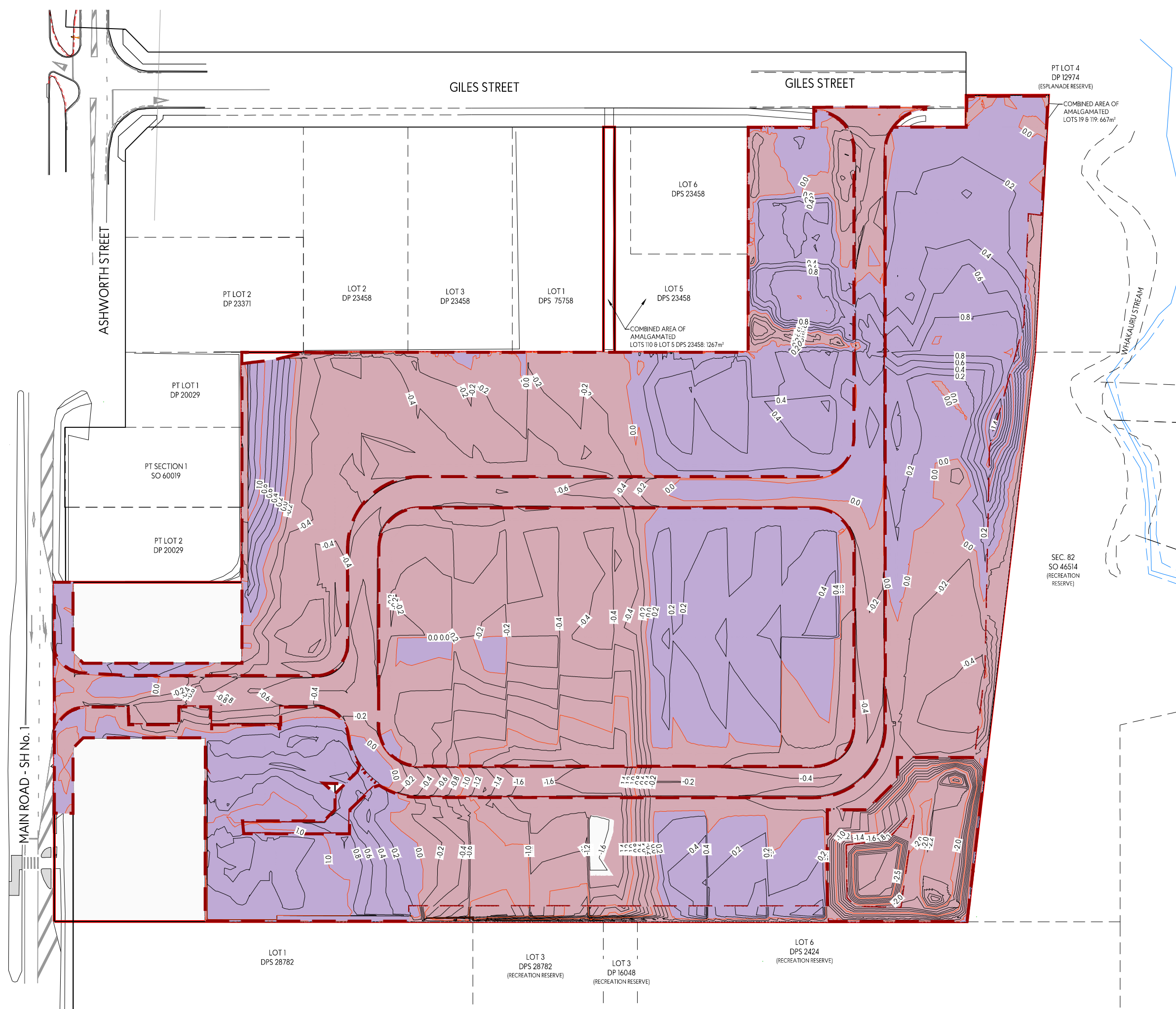
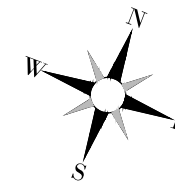
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29-04-25
FC2	EARTHWORKS REVISED	CMW	29-07-25
FC3	EARTHWORKS REVISED	CMW	28-08-2025

PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
PROPOSED CONTOUR PLAN



DESIGNED: LF	DRAWN: LVG	
CHECKED: LF	DATE: 06-12-2024	
SCALE A1: 1:500	SCALE A3: 1:1000	
STATUS: FOR CONSTRUCTION		
PROJECT No: 1543-01	DRAWING No: 210	REVISION: FC3



LEGEND:

- CUT CONTOURS SHOWN AT 0.2m INTERVALS
- FILL CONTOURS SHOWN AT 0.2m INTERVALS
- EXTENT OF BULK EARTHWORKS

NOTES:

1. EXISTING CONTOURS ARE FROM STEWART SURVEYING SITE SURVEY UNDERTAKEN IN MARCH 2021.
2. COORDINATES ARE IN TERMS OF NZGD2000 MT EDEN CIRCUIT
3. LEVELS IN TERMS OF MOTURIKI VERTICAL DATUM 1953
4. CUT/FILL CONTOURS SHOWN ARE THE DIFFERENCE BETWEEN EXISTING GROUND LEVEL TOP SOIL STRIP AND PROPOSED SUBGRADE LEVELS.
5. EXCESS FILL TO BE PLACED ON LOT PLATFORMS
6. TOTAL FILL: 5,812m³
TOTAL CUT: 10,715m³
2D EARTHWORKS AREA: 37400m²
MAX FILL HEIGHT: 1.8m
MAX CUT DEPTH: 3.2m

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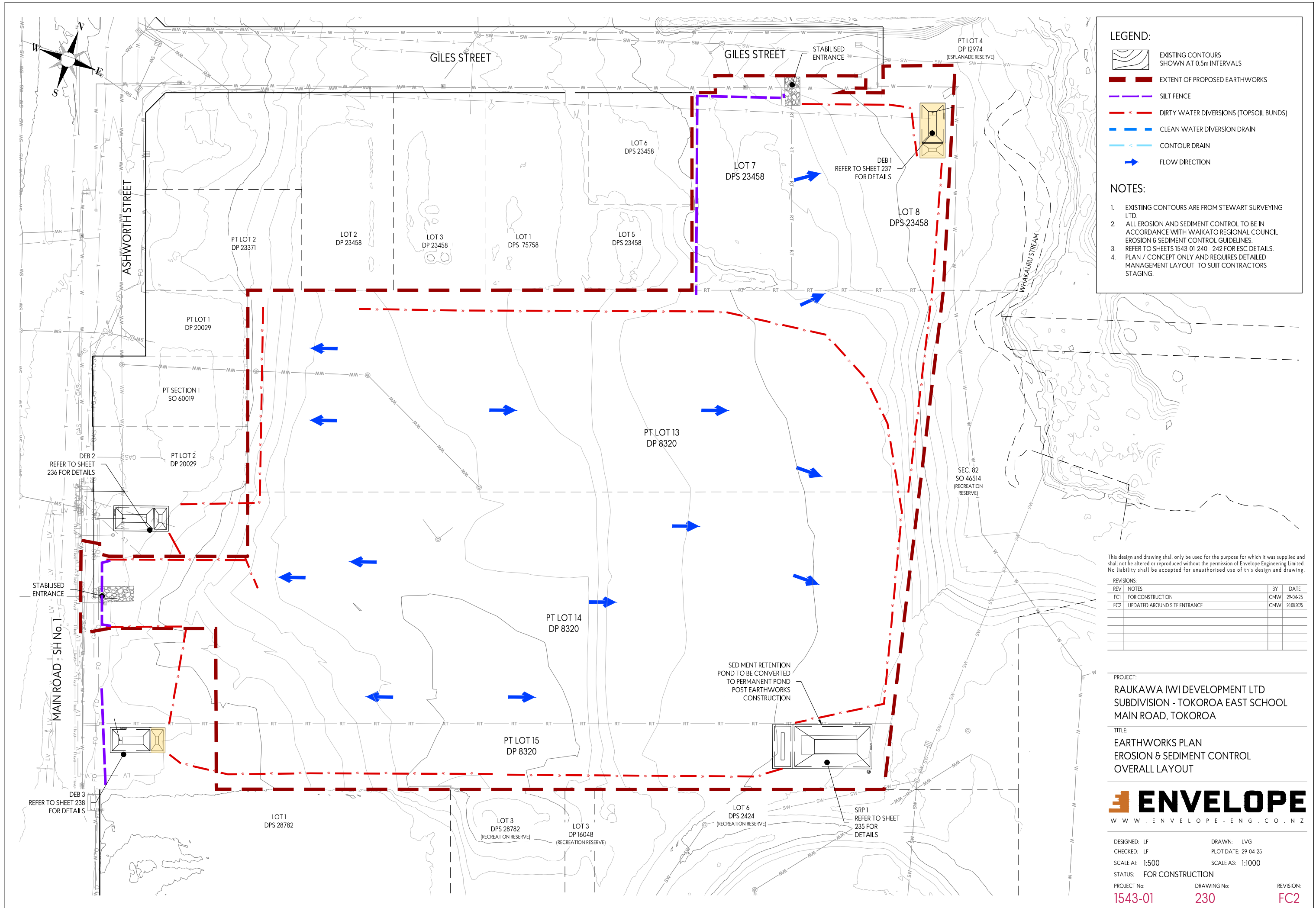
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	LVG	29-04-25
FC2	EARTHWORKS REVISED	CMW	29-07-2025
FC3	UPDATED EARTHWORKS	CMW	29-08-2025

PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
EARTHWORKS PLANS
 PROPOSED CUT-FILL CONTOURS



DESIGNED: LF	DRAWN: LVG	
CHECKED: LF	DATE: 06-12-2024	
SCALE A1: 1:500	SCALE A3: 1:1000	
STATUS: FOR CONSTRUCTION		
PROJECT No: 1543-01	DRAWING No: 220	REVISION: FC3



LEGEND:

- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
- EXTENT OF PROPOSED EARTHWORKS
- SILT FENCE
- DIRTY WATER DIVERSIONS (TOPSOIL BUNDS)
- CLEAN WATER DIVERSION DRAIN
- CONTOUR DRAIN
- FLOW DIRECTION

NOTES:

1. EXISTING CONTOURS ARE FROM STEWART SURVEYING LTD.
2. ALL EROSION AND SEDIMENT CONTROL TO BE IN ACCORDANCE WITH WAIKATO REGIONAL COUNCIL EROSION & SEDIMENT CONTROL GUIDELINES.
3. REFER TO SHEETS 1543-01-240 - 242 FOR ESC DETAILS.
4. PLAN / CONCEPT ONLY AND REQUIRES DETAILED MANAGEMENT LAYOUT TO SUIT CONTRACTORS STAGING.

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REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29-04-25
FC2	UPDATED AROUND SITE ENTRANCE	CMW	20.08.2025

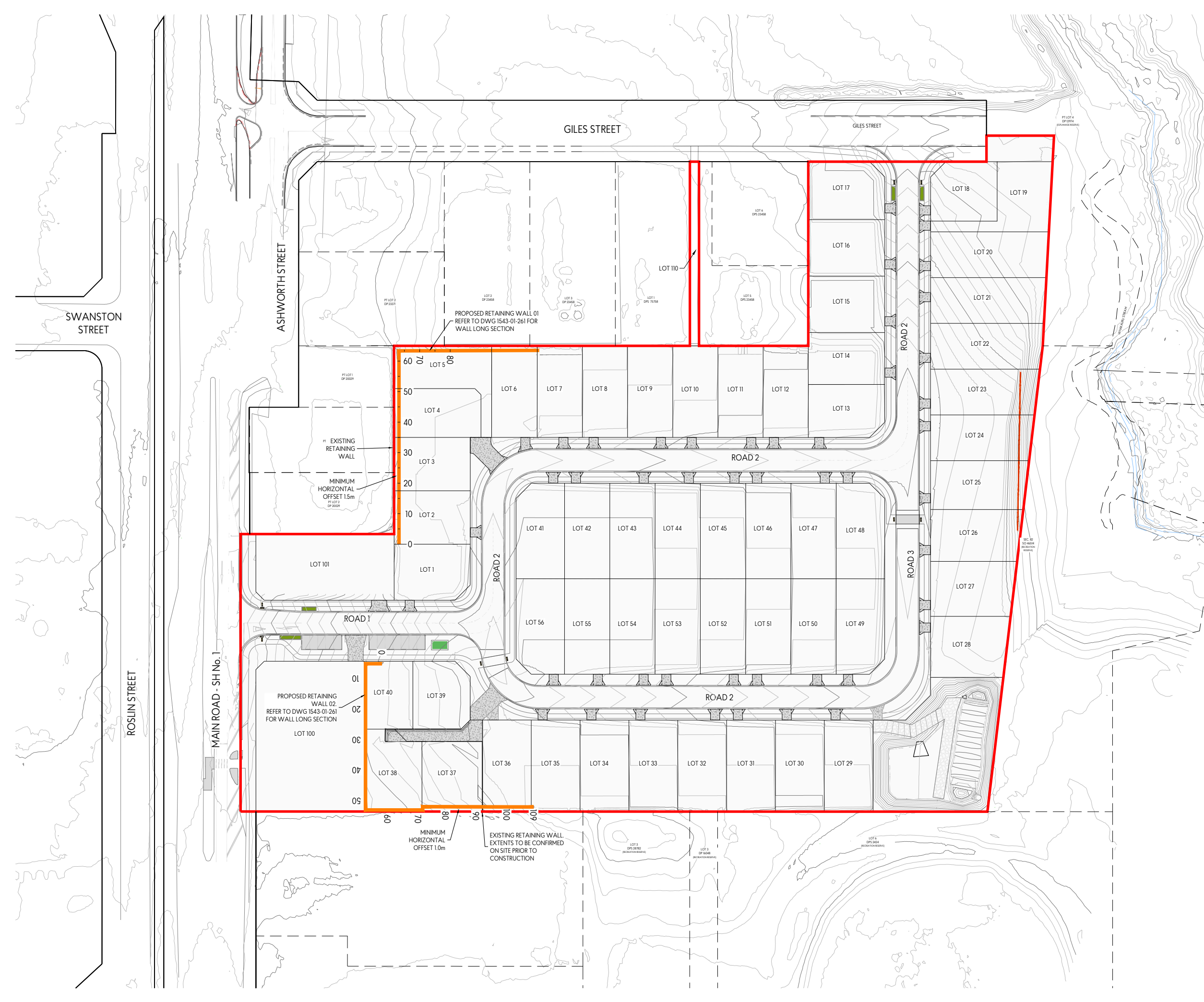
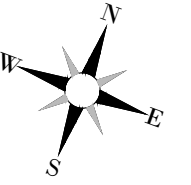
PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
 SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
EARTHWORKS PLAN
 EROSION & SEDIMENT CONTROL
 OVERALL LAYOUT



DESIGNED: LF DRAWN: LVG
 CHECKED: LF PLOT DATE: 29-04-25
 SCALE A1: 1:500 SCALE A3: 1:1000
 STATUS: FOR CONSTRUCTION

PROJECT No: **1543-01** DRAWING No: **230** REVISION: **FC2**



LEGEND:

- MERGED CONTOURS SHOWN AT 0.5m INTERVALS
- RETAINING WALLS

- NOTES:**
- EXISTING CONTOURS ARE FROM STEWART SURVEYING SITE SURVEY UNDERTAKEN IN MAR 2021.
 - COORDINATES ARE IN TERMS OF NZGD2000 MT EDEN CIRCUIT
 - LEVELS IN TERMS OF MOTURIKI VERTICAL DATUM 1953.
 - PROPOSED CONTOURS SHOWN ARE FINISHED GROUND LEVELS.
 - EXISTING WALL TO BE INSPECTED ON SITE BY STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION OF THE PROPOSED WALL.
 - PROPOSED RETAINING WALLS SPECIFIED BY OTHERS. WHERE WALLS ARE SURCHARGED OR GREATER THAN 1.5m RETAINED HEIGHT, STRUCTURAL DESIGN AND BUILDING CONSENT WILL BE REQUIRED.
 - WALLS REQUIRE A SUITABLE BARRIER WHERE A FALL HAZARD OF GREATER THAN 1m EXISTS.

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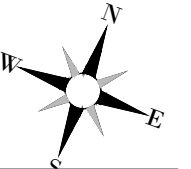
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29/04/2025

PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
 SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
PROPOSED RETAINING WALL PLAN



DESIGNED: LF	DRAWN: LVG
CHECKED: LF	DATE: 29-04-2025
SCALE A1: 1:250	SCALE A3: 1:500
STATUS: FOR CONSTRUCTION	
PROJECT No: 1543-01	DRAWING No: 260
	REVISION: FC1



LEGEND

- SITE BOUNDARY
- PROPOSED CHIPSEAL CARRIAGEWAY
- PROPOSED CONCRETE FOOTPATH
- PROPOSED VEHICLE CROSSING
- PROPOSED GRASS BERM/LAWN
- PROPOSED STREETLIGHT
- PROPOSED STREET NAME PLATE
- PROPOSED TACTILE PAVERS
- PROPOSED RAINGARDEN
- PROPOSED TRANSFORMER
- PROPOSED MAN-HOLE
- PROPOSED CATCHPIT
- FINISHED CONTOURS SHOWN AT 0.2m INTERVALS

- NOTES:**
1. ALL WORKS AND MATERIALS TO COUNCIL STANDARDS.
 2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH & SAFETY ACT 2016.
 3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 4. PROPOSED LEVELS AND FALLS AS OUTLINED ON THIS PLAN.
 5. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 6. FOR ROAD LONGSECTIONS REFER TO DRAWING 1543-01-320.
 7. FOR ROAD TYPOLOGY REFER DRAWING 1543-01-330.
 8. FOR ROAD DETAILS REFER TO DRAWING 1543-01-380 & 381 AND 1543-01-390-395
 9. CONTOUR SHOWN AS FINISHED SURFACE LEVELS.
 10. LEVELS ARE IN TERMS OF MOTURIKI VERTICAL DATUM 1953.
 11. ALL WORKS ON STATE HIGHWAY TO COMPLY WITH NZTA STANDARDS.

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REVISIONS:

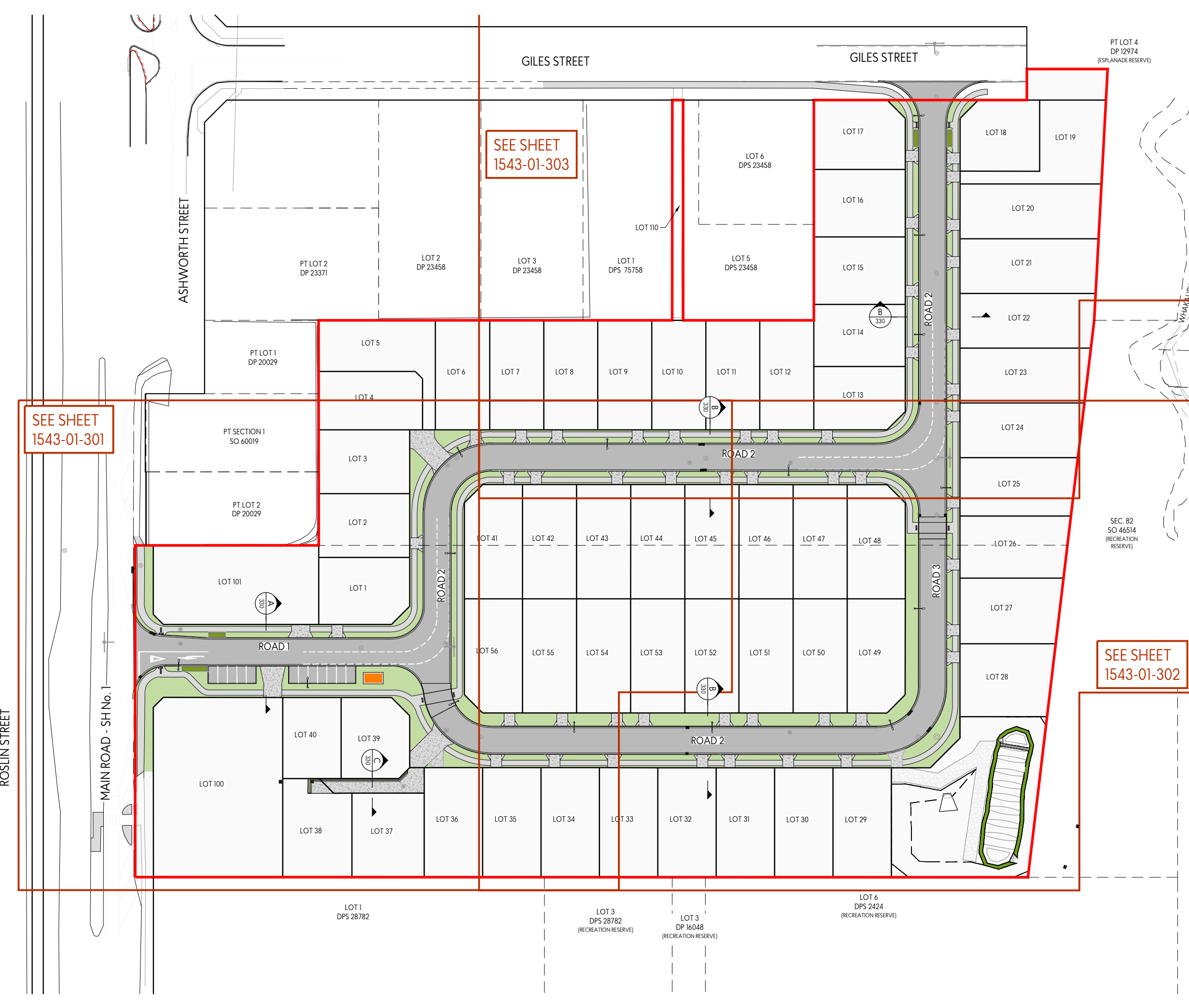
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29/04/2025

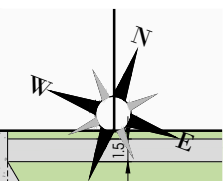
PROJECT:
 RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
 ROAD LAYOUT
 OVERALL PLAN



DESIGNED: LVG	DRAWN: LVG
CHECKED: LF	PLOT DATE: 29-04-2025
SCALE A1: 1:500	SCALE A3: 1:1000
STATUS: FOR CONSTRUCTION	
PROJECT No: 1543-01	DRAWING No: 300
	REVISION: FC1





LEGEND

- SITE BOUNDARY
- PROPOSED CHIPSEAL CARRIAGEWAY
- PROPOSED CONCRETE FOOTPATH
- PROPOSED VEHICLE CROSSING
- PROPOSED GRASS BERM/LAWN
- PROPOSED STREETLIGHT
- PROPOSED STREET NAME PLATE
- PROPOSED TACTILE PAVERS
- PROPOSED RAINGARDEN
- PROPOSED TRANSFORMER
- PROPOSED MANHOLE
- PROPOSED CATCHPIT
- FINISHED CONTOURS SHOWN AT 0.2m INTERVALS

- NOTES:**
1. ALL WORKS AND MATERIALS TO COUNCIL STANDARDS.
 2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH & SAFETY ACT 2016.
 3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 4. PROPOSED LEVELS AND FALLS AS OUTLINED ON THIS PLAN.
 5. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 6. FOR ROAD LONGSECTIONS REFER TO DRAWING 1543-01-320.
 7. FOR ROAD TYPOLOGY REFER DRAWING 1543-01-330.
 8. FOR ROAD DETAILS REFER TO DRAWING 1543-01-380 & 381 AND 1543-01-390-395
 9. CONTOUR SHOWN AS FINISHED SURFACE LEVELS.
 10. LEVELS ARE IN TERMS OF MOTURIKI VERTICAL DATUM 1953.
 11. ALL WORKS ON STATE HIGHWAY TO COMPLY WITH NZTA STANDARDS.

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REVISIONS:

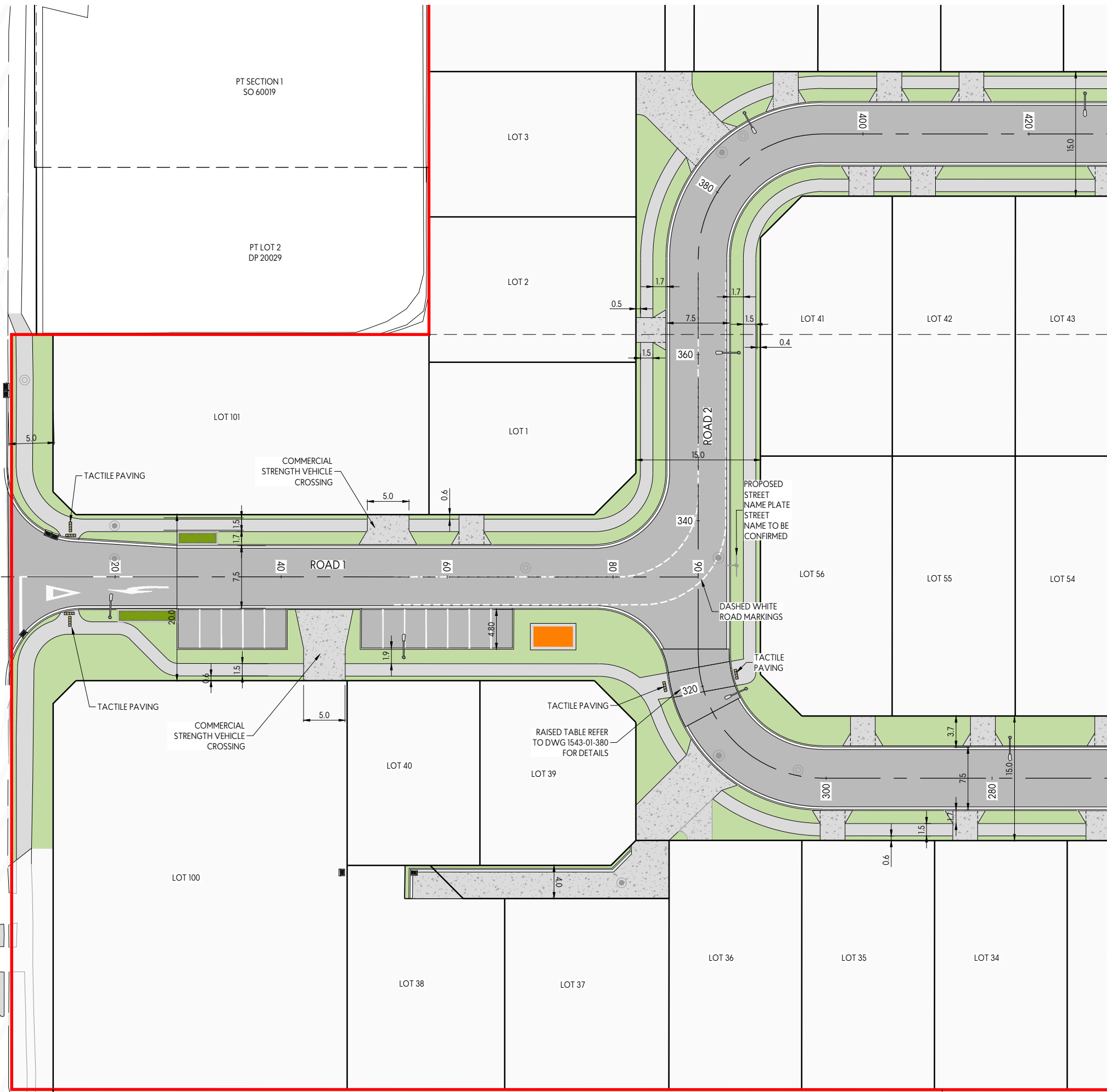
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29/04/2025

PROJECT:
 RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
 ROAD LAYOUT PLAN
 SHEET 1 OF 3



DESIGNED: LVG DRAWN: LVG
 CHECKED: LF PLOT DATE: 29-04-2025
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: FOR CONSTRUCTION
 PROJECT No: 1543-01 DRAWING No: 301 REVISION: FC1



PROPOSED STREET NAME PLATE STREET NAME TO BE CONFIRMED

MAIN ROAD - SH No. 1

PT SECTION 1 SO 60019

PT LOT 2 DP 20029

LOT 100

LOT 40

LOT 39

LOT 38

LOT 37

LOT 36

LOT 35

LOT 34

LOT 1

LOT 2

LOT 3

LOT 56

LOT 55

LOT 54

LOT 41

LOT 42

LOT 43

LOT 101

PROPOSED STREET NAME PLATE STREET NAME TO BE CONFIRMED

DASHED WHITE ROAD MARKINGS

TACTILE PAVING

TACTILE PAVING
 RAISED TABLE REFER TO DWG 1543-01-380 FOR DETAILS

TACTILE PAVING
 COMMERCIAL STRENGTH VEHICLE CROSSING

TACTILE PAVING

TACTILE PAVING

COMMERCIAL STRENGTH VEHICLE CROSSING

5.0

0.6

1.5

0.9

0.8

0.6

15.0

340

0.4

1.5

7.5

1.7

1.7

0.5

15.0

400

420

15.0

LEGEND

- SITE BOUNDARY
- PROPOSED CHIPSEAL CARRIAGEWAY
- PROPOSED CONCRETE FOOTPATH
- PROPOSED VEHICLE CROSSING
- PROPOSED GRASS BERM/LAWN
- PROPOSED STREETLIGHT
- PROPOSED STREET NAME PLATE
- PROPOSED TACTILE PAVERS
- PROPOSED RAINGARDEN
- PROPOSED TRANSFORMER
- PROPOSED MANHOLE
- PROPOSED CATCHPIT
- FINISHED CONTOURS SHOWN AT 0.2m INTERVALS

- NOTES:**
1. ALL WORKS AND MATERIALS TO COUNCIL STANDARDS.
 2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH & SAFETY ACT 2016.
 3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 4. PROPOSED LEVELS AND FALLS AS OUTLINED ON THIS PLAN.
 5. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 6. FOR ROAD LONGSECTIONS REFER TO DRAWING 1543-01-320.
 7. FOR ROAD TYPOLOGY REFER DRAWING 1543-01-330.
 8. FOR ROAD DETAILS REFER TO DRAWING 1543-01-380 & 381 AND 1543-01-390-395
 9. CONTOUR SHOWN AS FINISHED SURFACE LEVELS.
 10. LEVELS ARE IN TERMS OF MOTURIKI VERTICAL DATUM 1953.
 11. ALL WORKS ON STATE HIGHWAY TO COMPLY WITH NZTA STANDARDS.

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REVISIONS:

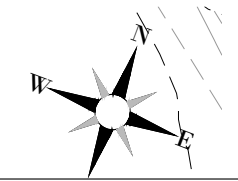
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29/04/2025

PROJECT:
 RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
 ROAD LAYOUT PLAN
 SHEET 1 OF 3



DESIGNED: LVG DRAWN: LVG
 CHECKED: LF PLOT DATE: 29-04-2025
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: FOR CONSTRUCTION
 PROJECT No: 1543-01 DRAWING No: 301 REVISION: FC1



LEGEND

- SITE BOUNDARY
- PROPOSED CHIPSEAL CARRIAGEWAY
- PROPOSED CONCRETE FOOTPATH
- PROPOSED VEHICLE CROSSING
- PROPOSED GRASS BERM/LAWN
- PROPOSED STREETLIGHT
- PROPOSED STREET NAME PLATE
- PROPOSED TACTILE PAVERS
- PROPOSED RAINGARDEN
- PROPOSED TRANSFORMER
- PROPOSED MANHOLE
- PROPOSED CATCHPIT
- FINISHED CONTOURS SHOWN AT 0.2m INTERVALS

SEC. SO 46 (RECREA RESER)

- NOTES:**
1. ALL WORKS AND MATERIALS TO COUNCIL STANDARDS.
 2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH & SAFETY ACT 2016.
 3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 4. PROPOSED LEVELS AND FALLS AS OUTLINED ON THIS PLAN.
 5. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 6. FOR ROAD LONGSECTIONS REFER TO DRAWING 1543-01-320.
 7. FOR ROAD TYPOLOGY REFER DRAWING 1543-01-330.
 8. FOR ROAD DETAILS REFER TO DRAWING 1543-01-380 & 381 AND 1543-01-390-395
 9. CONTOUR SHOWN AS FINISHED SURFACE LEVELS.
 10. LEVELS ARE IN TERMS OF MOTURIKI VERTICAL DATUM 1953.
 11. ALL WORKS ON STATE HIGHWAY TO COMPLY WITH NZTA STANDARDS.

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REVISIONS:

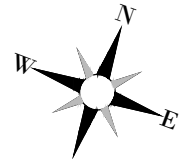
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29.04.2025

PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

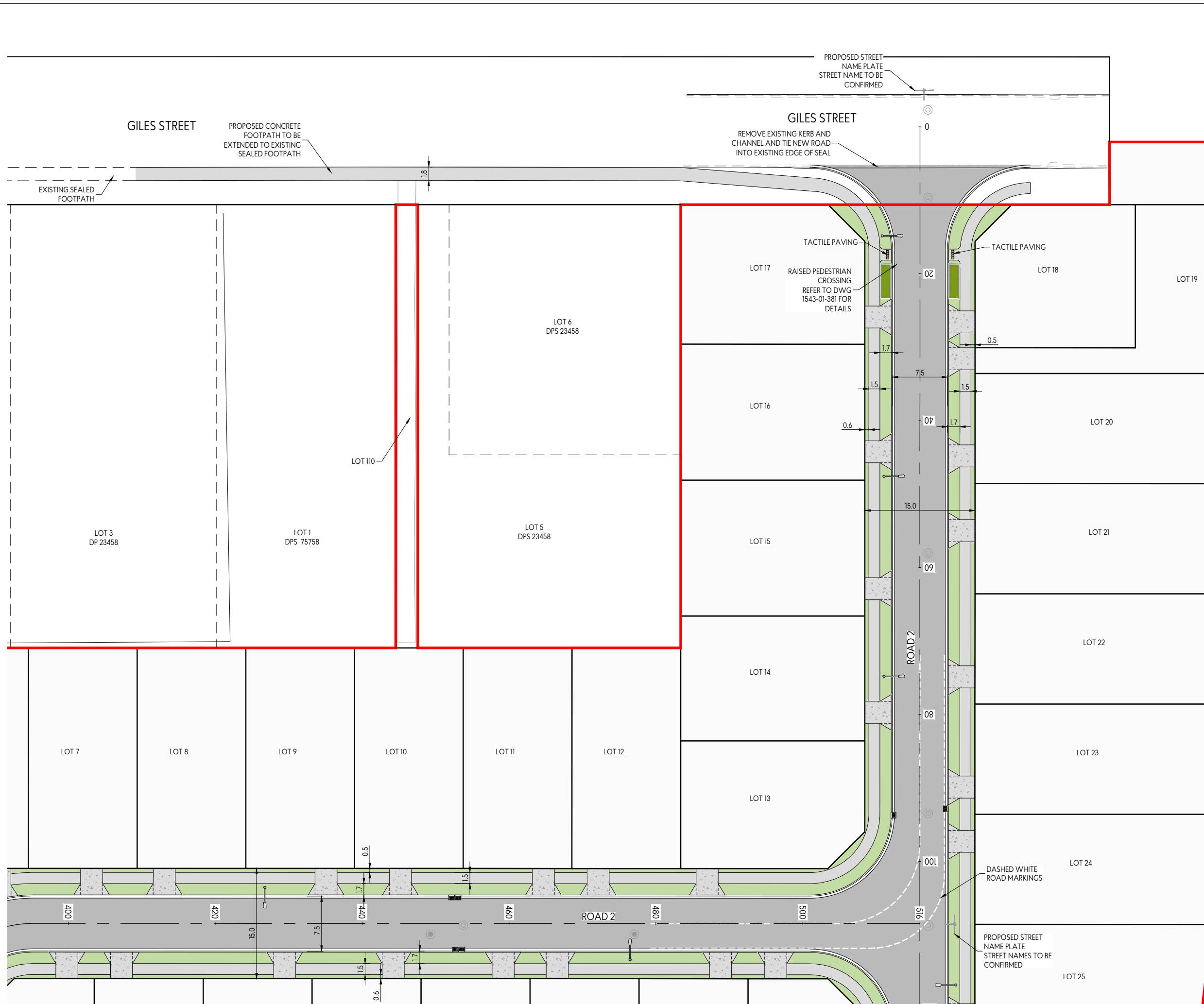
TITLE:
ROAD LAYOUT PLAN
 SHEET 2 OF 3



DESIGNED: LVG DRAWN: LVG
 CHECKED: LF PLOT DATE: 29-04-2025
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: FOR CONSTRUCTION
 PROJECT No: 1543-01 DRAWING No: 302 REVISION: FC1



PT LOT 4



LEGEND

- SITE BOUNDARY
- PROPOSED CHIPSEAL CARRIAGEWAY
- PROPOSED CONCRETE FOOTPATH
- PROPOSED VEHICLE CROSSING
- PROPOSED GRASS BERM/LAWN
- PROPOSED STREETLIGHT
- PROPOSED STREET NAME PLATE
- PROPOSED TACTILE PAVERS
- PROPOSED RAINGARDEN
- PROPOSED TRANSFORMER
- PROPOSED MANHOLE
- PROPOSED CATCHPIT
- FINISHED CONTOURS SHOWN AT 0.2m INTERVALS

- NOTES:**
1. ALL WORKS AND MATERIALS TO COUNCIL STANDARDS.
 2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH & SAFETY ACT 2016.
 3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 4. PROPOSED LEVELS AND FALLS AS OUTLINED ON THIS PLAN.
 5. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 6. FOR ROAD LONGSECTIONS REFER TO DRAWING 1543-01-320.
 7. FOR ROAD TYPOLOGY REFER DRAWING 1543-01-330.
 8. FOR ROAD DETAILS REFER TO DRAWING 1543-01-380 & 381 AND 1543-01-390-395
 9. CONTOUR SHOWN AS FINISHED SURFACE LEVELS.
 10. LEVELS ARE IN TERMS OF MOTURIKI VERTICAL DATUM 1953.
 11. ALL WORKS ON STATE HIGHWAY TO COMPLY WITH NZTA STANDARDS.

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REVISIONS:

REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29/04/2025

PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

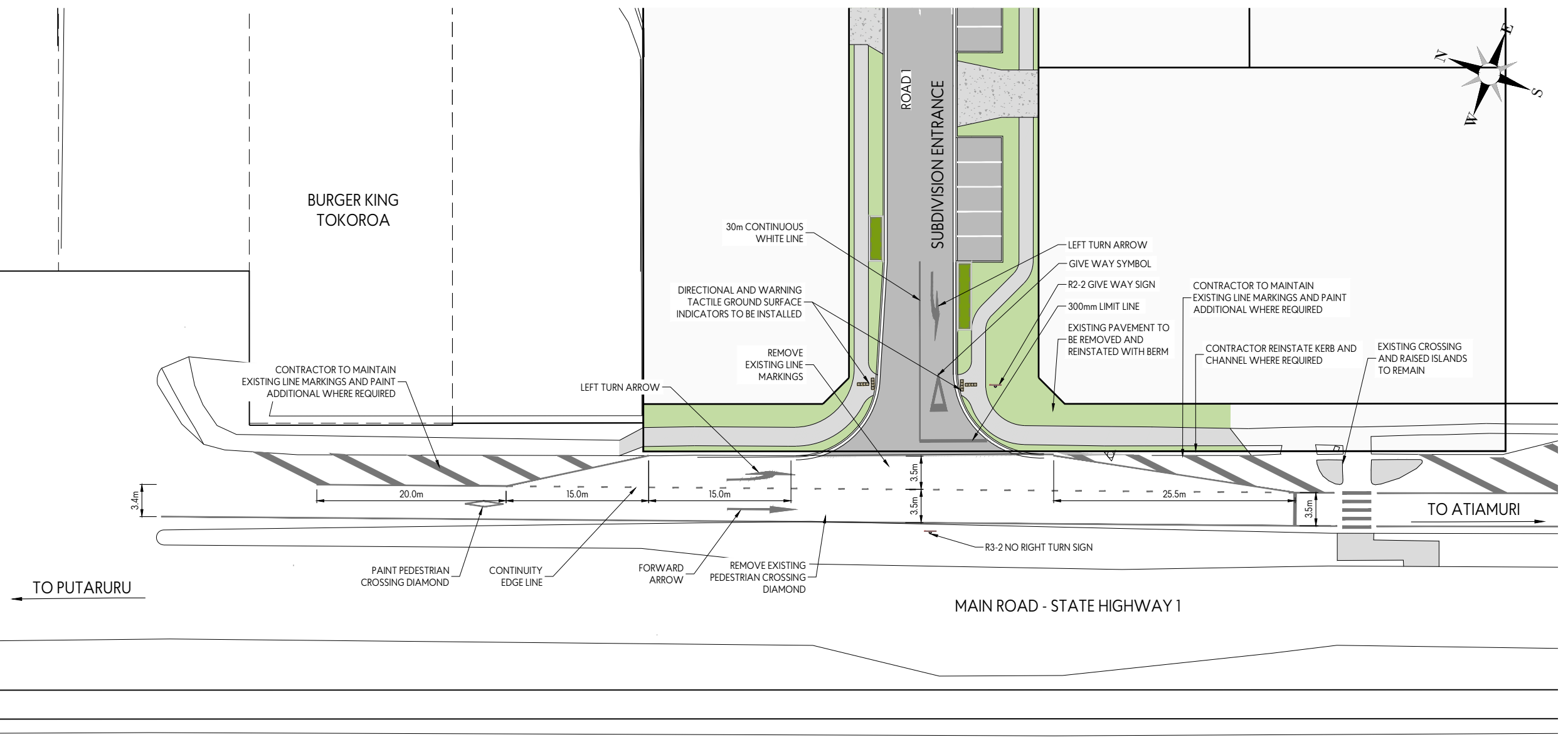
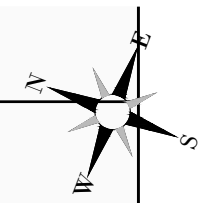
TITLE:
ROAD LAYOUT PLAN
 SHEET 3 OF 3



DESIGNED: LVG	DRAWN: LVG
CHECKED: LF	PLOT DATE: 29-04-2025
SCALE A1: 1:250	SCALE A3: 1:500
STATUS: FOR CONSTRUCTION	
PROJECT No: 1543-01	DRAWING No: 303
	REVISION: FC1

NOTES:

1. ALL TRAFFIC CONTROLS, LINE MARKINGS AND SIGNS TO BE IN ACCORDANCE WITH THE NZTA TRAFFIC CONTROL DEVICES MANUAL.
2. ALL WORKS AND MATERIALS TO COUNCIL STANDARDS.
3. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH AND SAFETY ACT 2016.
4. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
5. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
6. WHERE EXISTING LINES CLASH CONTRACTOR TO SUBSTANTIALLY REMOVE.



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REVISIONS:

REV	NOTES	BY	DATE
F01	FOR CONSTRUCTION	CMW	29-04-2025

PROJECT:
 RAUKAWA IWI DEVELOPMENT LTD
 SUBDIVISION, TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

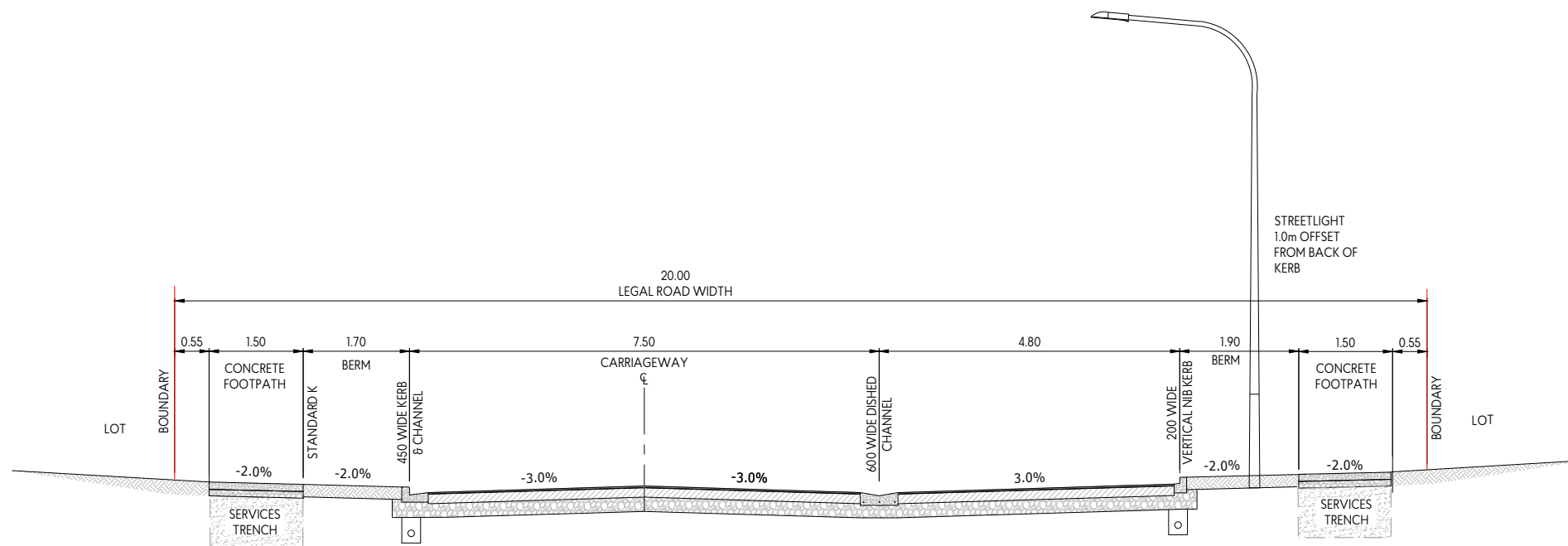
TITLE:
 SUBDIVISION ENTRANCE
 INTERSECTION DESIGN
 LAYOUT



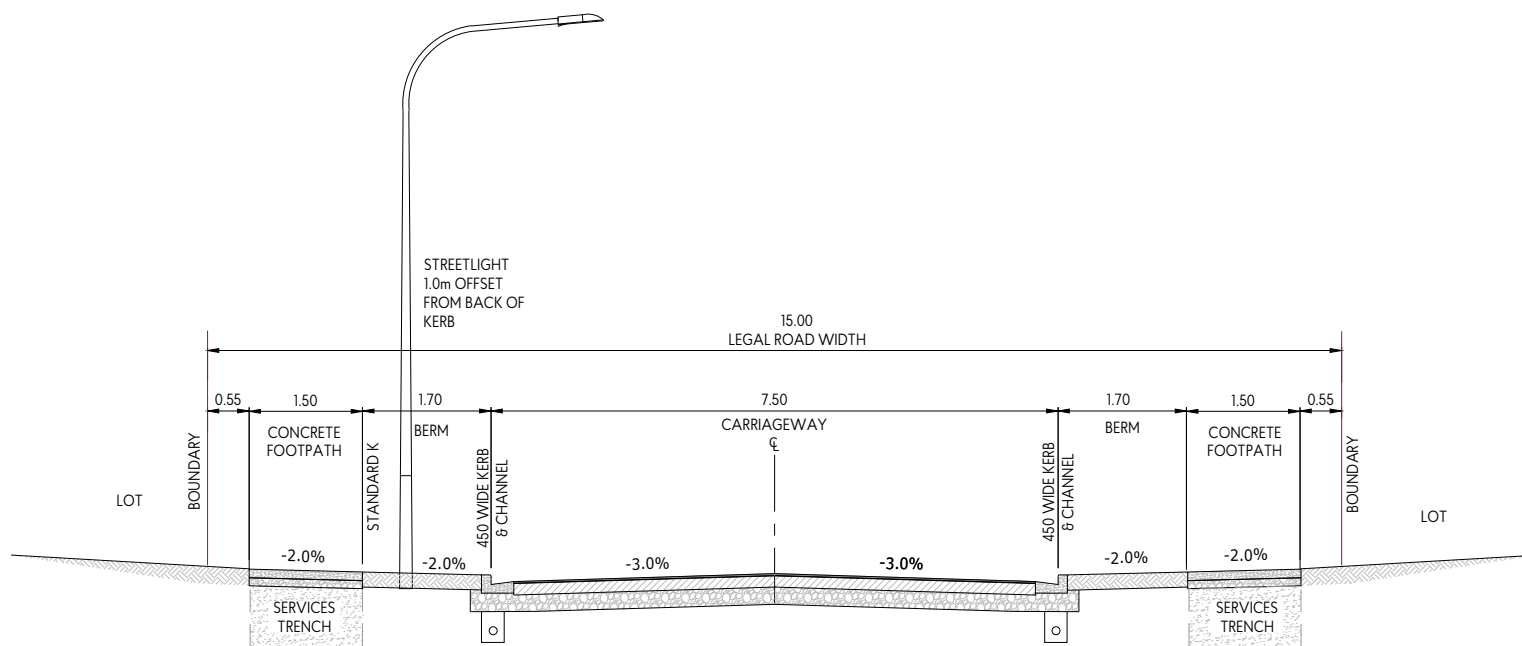
DESIGNED: LVG DRAWN: LVG
 CHECKED: LF PLOT DATE: 29-04-2025
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: FOR CONSTRUCTION

PROJECT No: 1543-01 DRAWING No: 316 REVISION: F01

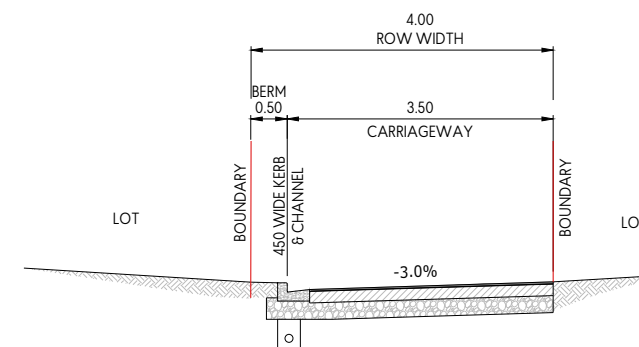
REVISION: F01
 PROJECT: RAUKAWA IWI DEVELOPMENT LTD
 SUBDIVISION, TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA
 DRAWING No: 316
 REVISION: F01



**ROAD 1 - 20.0m WIDE
TYPICAL CROSS SECTION**
A
300 SCALE 1:50 - A1 1:100-A3



**ROAD 2 - 15.0m WIDE
TYPICAL CROSS SECTION**
B
300 SCALE 1:50 - A1 1:100-A3



**RIGHT OF WAY - 4.0m WIDE
TYPICAL CROSS SECTION**
C
300 SCALE 1:50 - A1 1:100-A3

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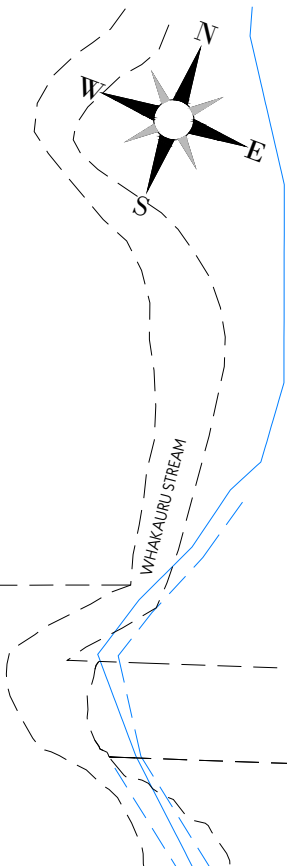
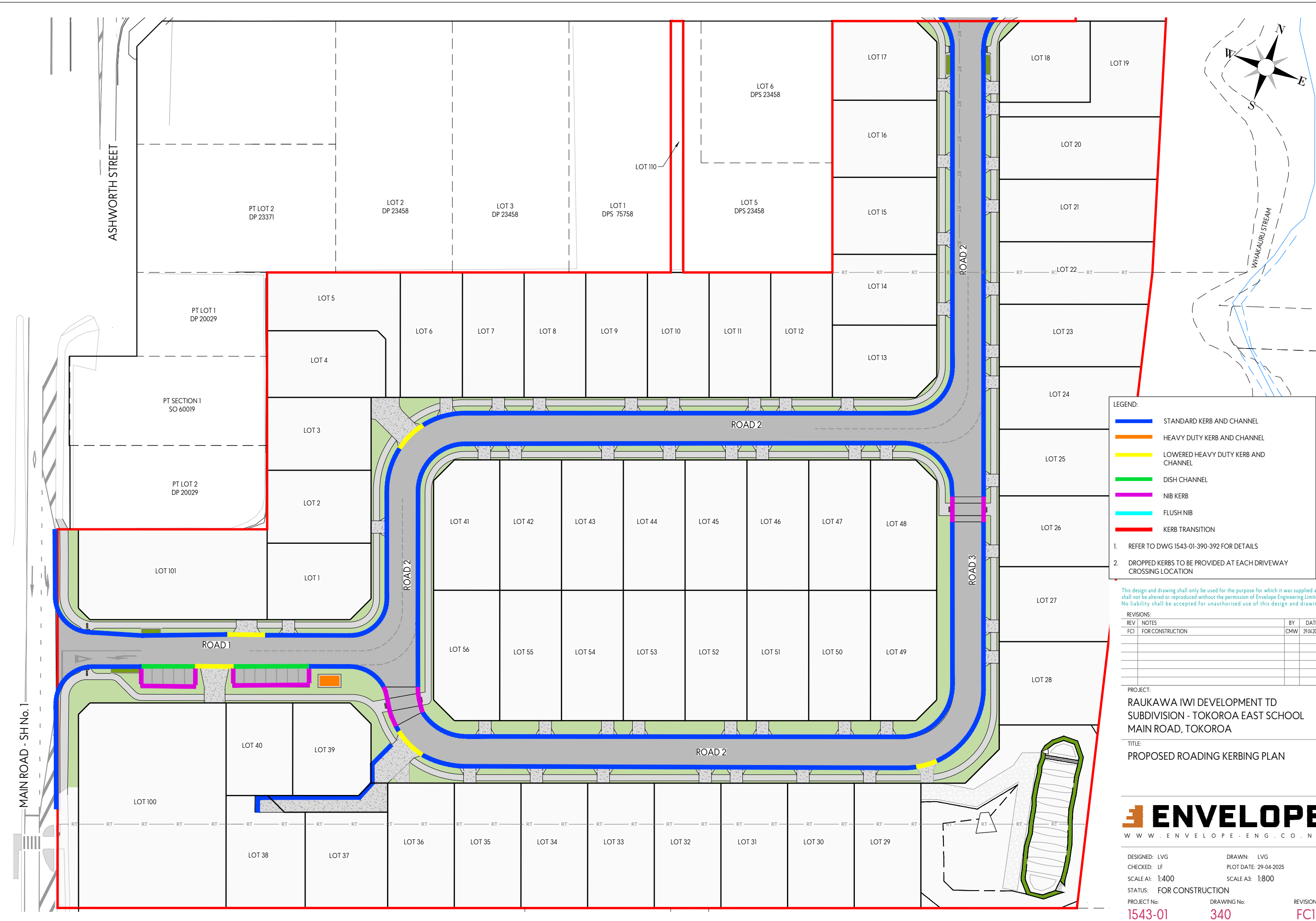
REVISIONS:			
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29.04.2025

PROJECT:
**RAUKAWA IWAI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA**

TITLE:
TYPICAL ROAD CROSS SECTIONS



DESIGNED: LVG DRAWN: LVG
 CHECKED: LF DATE: 29-04-2025
 SCALE A1: 1:50 SCALE A3: 1:100
 STATUS: FOR CONSTRUCTION
 PROJECT No: 1543-01 DRAWING No: 330 REVISION: FC1



LEGEND:

- STANDARD KERB AND CHANNEL
- HEAVY DUTY KERB AND CHANNEL
- LOWERED HEAVY DUTY KERB AND CHANNEL
- DISH CHANNEL
- NIB KERB
- FLUSH NIB
- KERB TRANSITION

1. REFER TO DWG 1543-01-390-392 FOR DETAILS
2. DROPPED KERBS TO BE PROVIDED AT EACH DRIVEWAY CROSSING LOCATION

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REVISIONS:

REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29/04/2025

PROJECT:
**RAUKAWA IWI DEVELOPMENT TD
 SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA**

TITLE:
PROPOSED ROADING KERBING PLAN

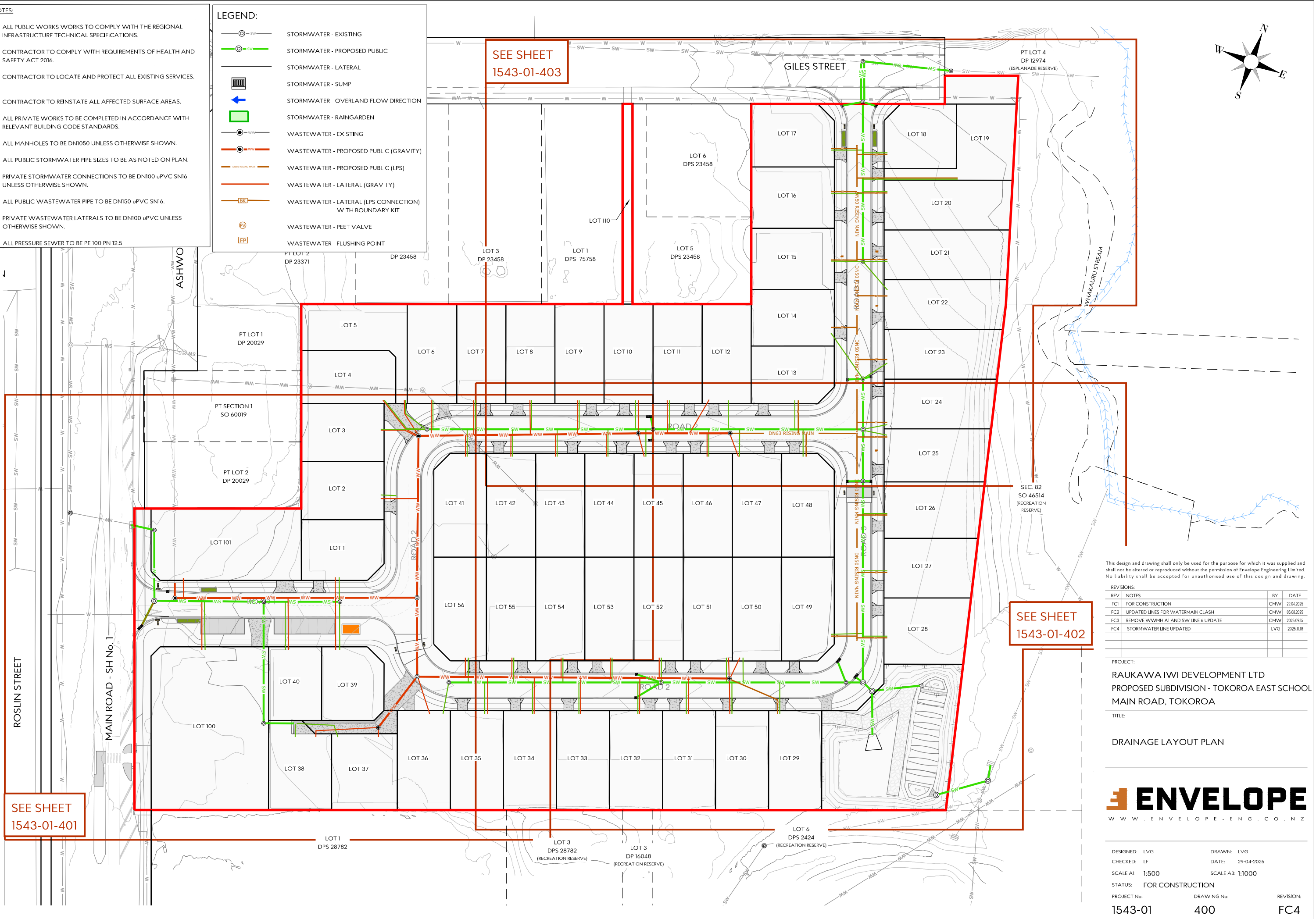


DESIGNED: LVG	DRAWN: LVG
CHECKED: LF	PLOT DATE: 29-04-2025
SCALE A1: 1:400	SCALE A3: 1:800
STATUS: FOR CONSTRUCTION	
PROJECT No: 1543-01	DRAWING No: 340
	REVISION: FC1

REVISION: 21 SHARED/01/2025 - PROJECT HUB 1543-01 TOKOROA EAST SCHOOL REDEVELOPMENT U/L CAD/1443/130 KERBING PLAN/DWG

- NOTES:**
1. ALL PUBLIC WORKS WORKS TO COMPLY WITH THE REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
 2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH AND SAFETY ACT 2016.
 3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 4. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 5. ALL PRIVATE WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT BUILDING CODE STANDARDS.
 6. ALL MANHOLES TO BE DN1050 UNLESS OTHERWISE SHOWN.
 7. ALL PUBLIC STORMWATER PIPE SIZES TO BE AS NOTED ON PLAN.
 8. PRIVATE STORMWATER CONNECTIONS TO BE DN100 uPVC SNI6 UNLESS OTHERWISE SHOWN.
 9. ALL PUBLIC WASTEWATER PIPE TO BE DN150 uPVC SNI6.
 10. PRIVATE WASTEWATER LATERALS TO BE DN100 uPVC UNLESS OTHERWISE SHOWN.
 11. ALL PRESSURE SEWER TO BE PE 100 PN 12.5

- LEGEND:**
- SW — STORMWATER - EXISTING
 - SW — STORMWATER - PROPOSED PUBLIC
 - SW — STORMWATER - LATERAL
 - SW — STORMWATER - SUMP
 - SW — STORMWATER - OVERLAND FLOW DIRECTION
 - SW — STORMWATER - RAINGARDEN
 - WW — WASTEWATER - EXISTING
 - WW — WASTEWATER - PROPOSED PUBLIC (GRAVITY)
 - WW — WASTEWATER - PROPOSED PUBLIC (LPS)
 - WW — WASTEWATER - LATERAL (GRAVITY)
 - WW — WASTEWATER - LATERAL (LPS CONNECTION) WITH BOUNDARY KIT
 - PV — WASTEWATER - PEET VALVE
 - FP — WASTEWATER - FLUSHING POINT



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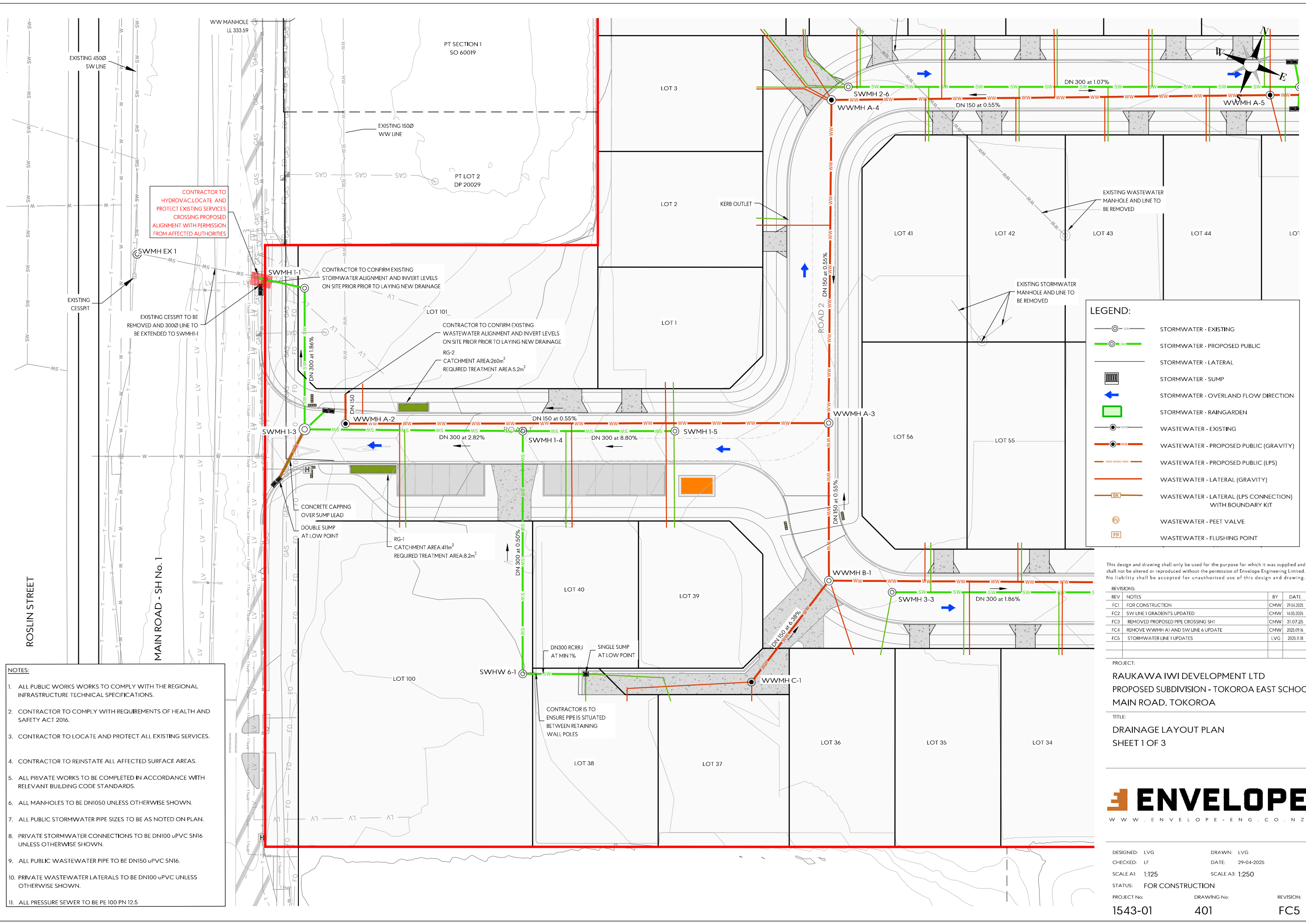
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29.04.2025
FC2	UPDATED LINES FOR WATERMAIN CLASH	CMW	05.08.2025
FC3	REMOVE WWMH A1 AND SW LINE 6 UPDATE	CMW	2025.09.15
FC4	STORMWATER LINE UPDATED	LVG	2025.11.18

PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
DRAINAGE LAYOUT PLAN



DESIGNED: LVG	DRAWN: LVG	REVISION:
CHECKED: LF	DATE: 29-04-2025	
SCALE A1: 1:500	SCALE A3: 1:1000	
STATUS: FOR CONSTRUCTION		
PROJECT No: 1543-01	DRAWING No: 400	REVISION: FC4



CONTRACTOR TO HYDROVACLOCATE AND PROTECT EXISTING SERVICES CROSSING PROPOSED ALIGNMENT WITH PERMISSION FROM AFFECTED AUTHORITIES

CONTRACTOR TO CONFIRM EXISTING STORMWATER ALIGNMENT AND INVERT LEVELS ON SITE PRIOR TO LAYING NEW DRAINAGE

CONTRACTOR TO CONFIRM EXISTING WASTEWATER ALIGNMENT AND INVERT LEVELS ON SITE PRIOR TO LAYING NEW DRAINAGE
 RG-2
 CATCHMENT AREA: 260m²
 REQUIRED TREATMENT AREA: 5.2m²

CONTRACTOR TO CONFIRM EXISTING WASTEWATER ALIGNMENT AND INVERT LEVELS ON SITE PRIOR TO LAYING NEW DRAINAGE
 RG-1
 CATCHMENT AREA: 41m²
 REQUIRED TREATMENT AREA: 8.2m²

CONTRACTOR IS TO ENSURE PIPE IS SITUATED BETWEEN RETAINING WALL POLES

- NOTES:**
1. ALL PUBLIC WORKS WORKS TO COMPLY WITH THE REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
 2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH AND SAFETY ACT 2016.
 3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 4. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 5. ALL PRIVATE WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT BUILDING CODE STANDARDS.
 6. ALL MANHOLES TO BE DN1050 UNLESS OTHERWISE SHOWN.
 7. ALL PUBLIC STORMWATER PIPE SIZES TO BE AS NOTED ON PLAN.
 8. PRIVATE STORMWATER CONNECTIONS TO BE DN100 uPVC SNI6 UNLESS OTHERWISE SHOWN.
 9. ALL PUBLIC WASTEWATER PIPE TO BE DN150 uPVC SNI6.
 10. PRIVATE WASTEWATER LATERALS TO BE DN100 uPVC UNLESS OTHERWISE SHOWN.
 11. ALL PRESSURE SEWER TO BE PE 100 PN 12.5

LEGEND:

	STORMWATER - EXISTING
	STORMWATER - PROPOSED PUBLIC
	STORMWATER - LATERAL
	STORMWATER - SUMP
	STORMWATER - OVERLAND FLOW DIRECTION
	STORMWATER - RAINGARDEN
	WASTEWATER - EXISTING
	WASTEWATER - PROPOSED PUBLIC (GRAVITY)
	WASTEWATER - PROPOSED PUBLIC (LPS)
	WASTEWATER - LATERAL (GRAVITY)
	WASTEWATER - LATERAL (LPS CONNECTION) WITH BOUNDARY KIT
	WASTEWATER - PEET VALVE
	WASTEWATER - FLUSHING POINT

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REVISIONS:

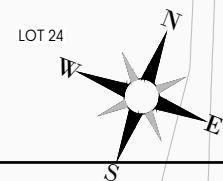
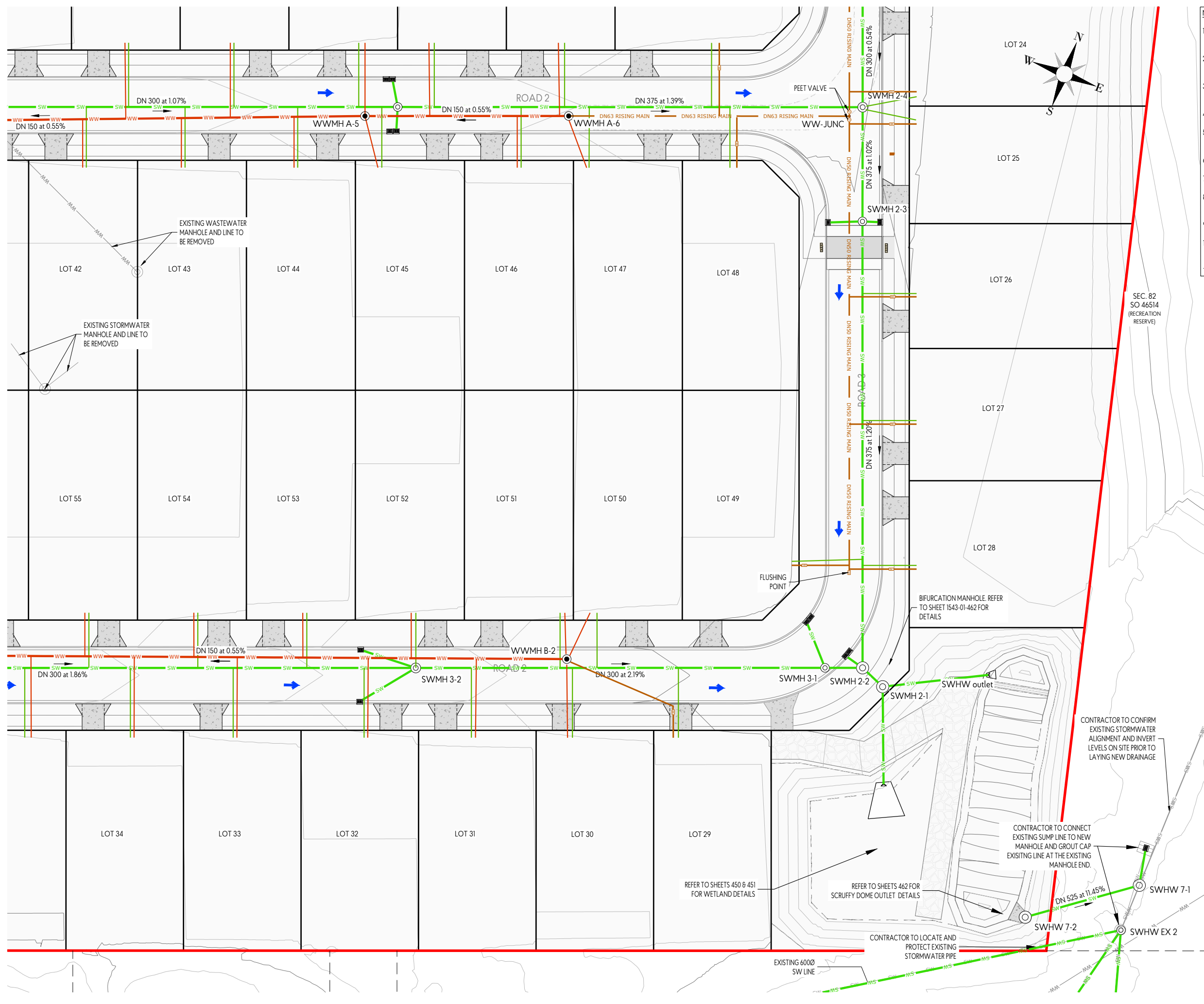
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29.04.2025
FC2	SW LINE 1 GRADIENTS UPDATED	CMW	14.05.2025
FC3	REMOVED PROPOSED PIPE CROSSING SH1	CMW	31.07.25
FC4	REMOVE WWMH A1 AND SW LINE 6 UPDATE	CMW	2025.09.16
FC5	STORMWATER LINE 1 UPDATES	LVG	2025.11.18

PROJECT:
 RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
 DRAINAGE LAYOUT PLAN
 SHEET 1 OF 3



DESIGNED: LVG	DRAWN: LVG
CHECKED: LF	DATE: 29-04-2025
SCALE A1: 1:125	SCALE A3: 1:250
STATUS: FOR CONSTRUCTION	
PROJECT No: 1543-01	DRAWING No: 401
	REVISION: FC5



- NOTES:**
1. ALL PUBLIC WORKS WORKS TO COMPLY WITH THE REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
 2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH AND SAFETY ACT 2016.
 3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 4. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 5. ALL PRIVATE WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT BUILDING CODE STANDARDS.
 6. ALL MANHOLES TO BE DN1050 UNLESS OTHERWISE SHOWN.
 7. ALL PUBLIC STORMWATER PIPE SIZES TO BE AS NOTED ON PLAN.
 8. PRIVATE STORMWATER CONNECTIONS TO BE DN100 uPVC SN16 UNLESS OTHERWISE SHOWN.
 9. ALL PUBLIC WASTEWATER PIPE TO BE DN150 uPVC SN16.
 10. PRIVATE WASTEWATER LATERALS TO BE DN100 uPVC UNLESS OTHERWISE SHOWN.
 11. ALL PRESSURE SEWER TO BE PE 100 PN 12.5

- LEGEND:**
- SW — STORMWATER - EXISTING
 - SW — STORMWATER - PROPOSED PUBLIC
 - SW — STORMWATER - LATERAL
 - SW — STORMWATER - SUMP
 - SW — STORMWATER - OVERLAND FLOW DIRECTION
 - SW — STORMWATER - RAINGARDEN
 - WW — WASTEWATER - EXISTING
 - WW — WASTEWATER - PROPOSED PUBLIC (GRAVITY)
 - WW — WASTEWATER - PROPOSED PUBLIC (LPS)
 - WW — WASTEWATER - LATERAL (GRAVITY)
 - WW — WASTEWATER - LATERAL (LPS CONNECTION) WITH BOUNDARY KIT
 - PV — WASTEWATER - PEET VALVE
 - FP — WASTEWATER - FLUSHING POINT

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REVISIONS:

REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29/04/2025

PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROEA EAST SCHOOL
 MAIN ROAD, TOKOROEA

TITLE:
DRAINAGE LAYOUT PLAN
 SHEET 2 OF 3



DESIGNED: LVG	DRAWN: LVG
CHECKED: LF	DATE: 29-04-2025
SCALE A1: 1:200	SCALE A3: 1:400
STATUS: FOR CONSTRUCTION	
PROJECT No: 1543-01	DRAWING No: 402
	REVISION: FC1

CONTRACTOR TO CONFIRM EXISTING STORMWATER ALIGNMENT AND INVERT LEVELS ON SITE PRIOR TO LAYING NEW DRAINAGE

CONTRACTOR TO CONNECT EXISTING SUMP LINE TO NEW MANHOLE AND GROUT CAP EXISTING LINE AT THE EXISTING MANHOLE END.

CONTRACTOR TO LOCATE AND PROTECT EXISTING STORMWATER PIPE

REFER TO SHEETS 450 & 451 FOR WETLAND DETAILS

REFER TO SHEETS 462 FOR SCRUFFY DOME OUTLET DETAILS

BIFURCATION MANHOLE. REFER TO SHEET 1543-01-462 FOR DETAILS

EXISTING WASTEWATER MANHOLE AND LINE TO BE REMOVED

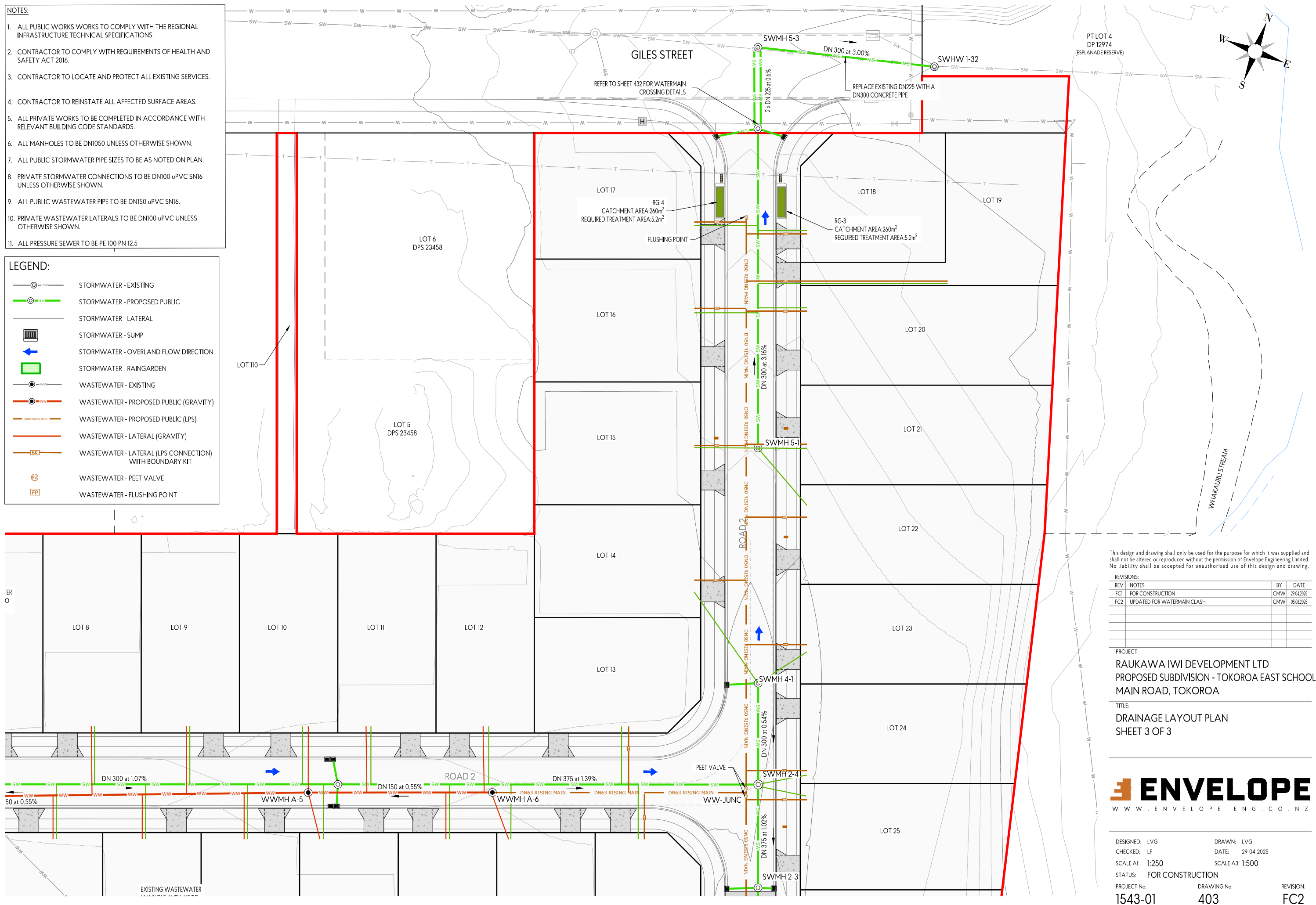
EXISTING STORMWATER MANHOLE AND LINE TO BE REMOVED

NOTES:

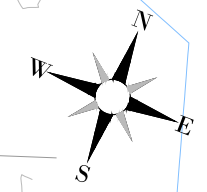
1. ALL PUBLIC WORKS WORKS TO COMPLY WITH THE REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH AND SAFETY ACT 2016.
3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
4. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
5. ALL PRIVATE WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT BUILDING CODE STANDARDS.
6. ALL MANHOLES TO BE DN1050 UNLESS OTHERWISE SHOWN.
7. ALL PUBLIC STORMWATER PIPE SIZES TO BE AS NOTED ON PLAN.
8. PRIVATE STORMWATER CONNECTIONS TO BE DN100 uPVC SN16 UNLESS OTHERWISE SHOWN.
9. ALL PUBLIC WASTEWATER PIPE TO BE DN150 uPVC SN16.
10. PRIVATE WASTEWATER LATERALS TO BE DN100 uPVC UNLESS OTHERWISE SHOWN.
11. ALL PRESSURE SEWER TO BE PE 100 PN 12.5

LEGEND:

- STORMWATER - EXISTING
- STORMWATER - PROPOSED PUBLIC
- STORMWATER - LATERAL
- STORMWATER - SUMP
- STORMWATER - OVERLAND FLOW DIRECTION
- STORMWATER - RAINGARDEN
- WASTEWATER - EXISTING
- WASTEWATER - PROPOSED PUBLIC (GRAVITY)
- WASTEWATER - PROPOSED PUBLIC (LPS)
- WASTEWATER - LATERAL (GRAVITY)
- WASTEWATER - LATERAL (LPS CONNECTION) WITH BOUNDARY KIT
- WASTEWATER - PEET VALVE
- WASTEWATER - FLUSHING POINT



PT LOT 4
DP 12974
(ESPLANADE RESERVE)



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REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29.04.2025
FC2	UPDATED FOR WATERMAIN CLASH	CMW	05.08.2025

PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

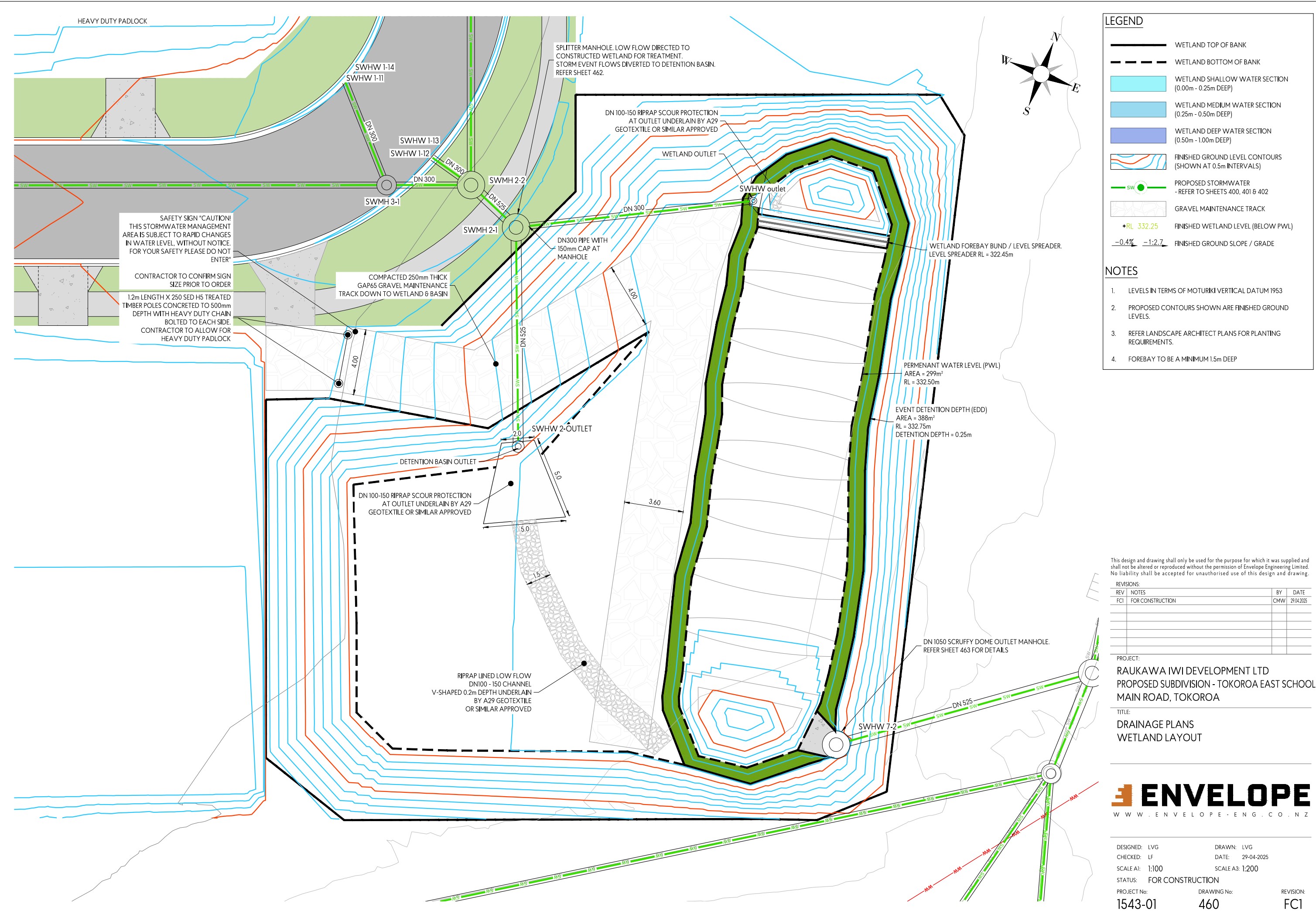
TITLE:
DRAINAGE LAYOUT PLAN
 SHEET 3 OF 3



DESIGNED: LVG
 CHECKED: LF
 SCALE A1: 1:250
 STATUS: FOR CONSTRUCTION
 PROJECT No: 1543-01

DRAWN: LVG
 DATE: 29-04-2025
 SCALE A3: 1:500
 DRAWING No: 403

REVISION:
 FC2



LEGEND

- WETLAND TOP OF BANK
- WETLAND BOTTOM OF BANK
- WETLAND SHALLOW WATER SECTION (0.00m - 0.25m DEEP)
- WETLAND MEDIUM WATER SECTION (0.25m - 0.50m DEEP)
- WETLAND DEEP WATER SECTION (0.50m - 1.00m DEEP)
- FINISHED GROUND LEVEL CONTOURS (SHOWN AT 0.5m INTERVALS)
- PROPOSED STORMWATER - REFER TO SHEETS 400, 401 & 402
- GRAVEL MAINTENANCE TRACK
- +RL 332.25 FINISHED WETLAND LEVEL (BELOW PWL)
- 0.4% -1:2.7 FINISHED GROUND SLOPE / GRADE

- NOTES**
1. LEVELS IN TERMS OF MOTURKI VERTICAL DATUM 1953
 2. PROPOSED CONTOURS SHOWN ARE FINISHED GROUND LEVELS.
 3. REFER LANDSCAPE ARCHITECT PLANS FOR PLANTING REQUIREMENTS.
 4. FOREBAY TO BE A MINIMUM 1.5m DEEP

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REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29/04/2025

PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
DRAINAGE PLANS
 WETLAND LAYOUT



DESIGNED: LVG DRAWN: LVG
 CHECKED: LF DATE: 29-04-2025
 SCALE A1: 1:100 SCALE A3: 1:200
 STATUS: FOR CONSTRUCTION
 PROJECT No: 1543-01 DRAWING No: 460 REVISION: FC1



LEGEND

- WETLAND TOP OF BANK
- WETLAND BOTTOM OF BANK
- WETLAND SHALLOW WATER SECTION (0.00m - 0.25m DEEP)
- WETLAND MEDIUM WATER SECTION (0.25m - 0.50m DEEP)
- WETLAND DEEP WATER SECTION (0.50m - 1.00m DEEP)
- FINISHED GROUND LEVEL CONTOURS (SHOWN AT 0.5m INTERVALS)
- PROPOSED STORMWATER - REFER TO SHEETS 400, 401 & 402
- GRAVEL MAINTENANCE TRACK
- FINISHED WETLAND LEVEL (BELOW PWL)
- FINISHED GROUND SLOPE / GRADE

NOTES

- LEVELS IN TERMS OF MOTURIKI VERTICAL DATUM 1953
- PROPOSED CONTOURS SHOWN ARE FINISHED GROUND LEVELS.
- REFER LANDSCAPE ARCHITECT PLANS FOR PLANTING REQUIREMENTS.
- FOREBAY TO BE A MINIMUM 1.5m DEEP

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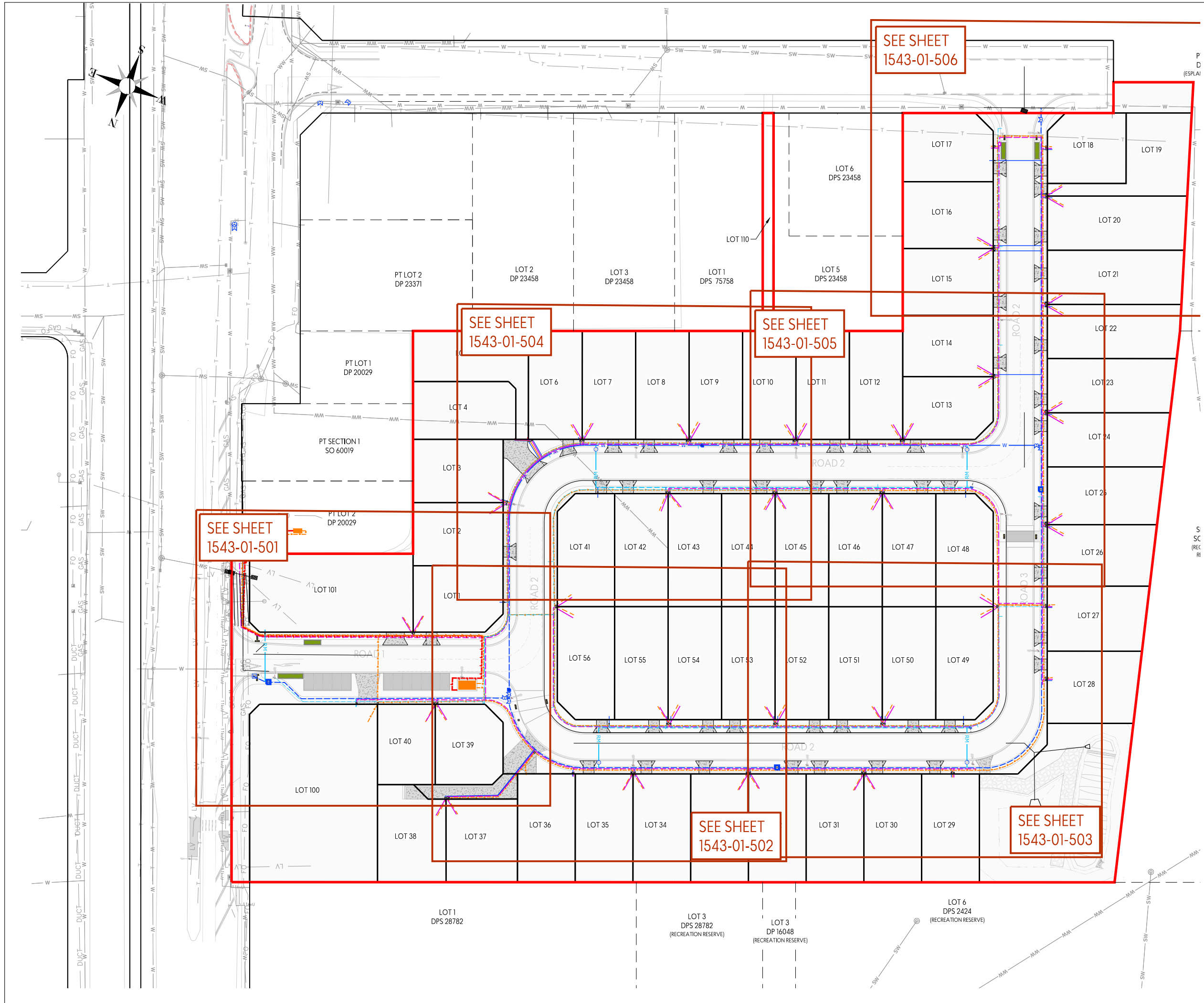
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29/04/2025

PROJECT:
 RAUKAWA IWI DEVELOPMENT LTD
 PROPOSED SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
 DRAINAGE PLANS
 WETLAND SECTIONS



DESIGNED: LVG DRAWN: LVG
 CHECKED: LF DATE: 29-04-2025
 SCALE A1: 1:100 SCALE A3: 1:200
 STATUS: FOR CONSTRUCTION
 PROJECT No: 1543-01 DRAWING No: 461 REVISION: FC1



SEE SHEET
1543-01-506

SEE SHEET
1543-01-504

SEE SHEET
1543-01-505

SEE SHEET
1543-01-501

SEE SHEET
1543-01-502

SEE SHEET
1543-01-503

LEGEND:

- W — EXISTING DN150 WATERMAIN
- FH [H] EXISTING HYDRANT
- SV [X] EXISTING SLUICE VALVE
- W — PROPOSED DN150 WATERMAIN
- RM — PROPOSED 63 OD PE100 SDR11 RIDERMAIN
- SV [X] PROPOSED SLUICE VALVE
- GV [●] PROPOSED GATE VALVE
- RMSV [X] PROPOSED RIDERMAIN SCOUR VALVE
- FH [H] PROPOSED PROPOSED HYDRANT
- [W] — PROPOSED TOBY (8 25mm ID CONNECTION)
- [P] PROPOSED POWER TUD
- [T] PROPOSED TELCO TUD
- [S] — PROPOSED TELCO
- [S] — PROPOSED STREELIGHTING
- [S] — PROPOSED POWER LOW VOLTAGE
- [HV] — PROPOSED POWER HIGH VOLTAGE
- [S] — PROPOSED STREELIGHTING
- [S] — PROPOSED STREELIGHTING

- NOTES:**
1. ALL WORKS, MATERIALS AND FITTINGS TO BE IN ACCORDANCE WITH WAIKATO LOCAL AUTHORITY SHARED SERVICES REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
 2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH AND SAFETY ACT 2016.
 3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 4. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 5. WATER SUPPLY PIPES TO BE:
 - WATERMAIN TO BE 150ØOD PVC-O PN12.5.
 - RIDERMAIN TO BE 63ØOD PE100 SDR11.
 6. ALL LOTS TO BE PROVIDED WITH 25Ø ID CONNECTION WITH GATE VALVE AND WATER METER BOXES.
 7. THESE SERVICES PLANS ARE SCHEMATIC ONLY AND SHOULD BE READ IN CONJUNCTION WITH SERVICE PROVIDER PLANS.
 8. REFER TO DWG 1543-01-590-593 FOR DETAILS

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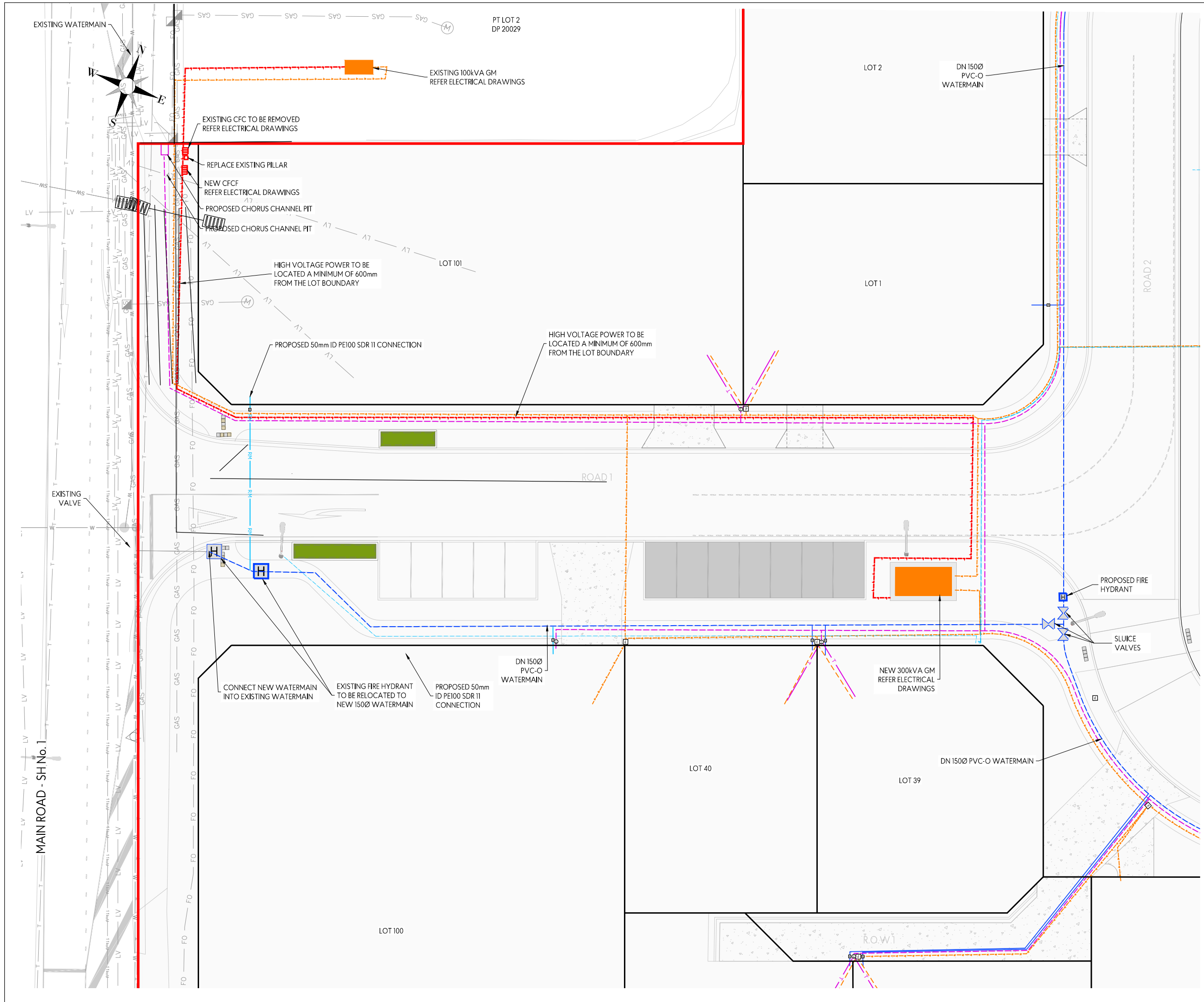
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29.04.2025
FC2	UPDATED LIGHTING PLANS	CMW	13.11.2025

PROJECT:
 RAUKAWA IWI DEVELOPMENT LTD
 SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
 WATER SUPPLY & SERVICES LAYOUT PLAN
 OVERVIEW



DESIGNED: LVG	DRAWN: LVG	REVISION:
CHECKED: LF	DATE: 29-04-2025	
SCALE A1: 1:500	SCALE A3: 1:1000	
STATUS: FOR CONSTRUCTION		
PROJECT No: 1543-01	DRAWING No: 500	REVISION: FC2



LEGEND:

- W — EXISTING DN150 WATERMAIN
- FH [H] EXISTING HYDRANT
- SV [X] EXISTING SLUICE VALVE
- W — PROPOSED DN150 WATERMAIN
- RM — PROPOSED 63 OD PE100 SDR11 RIDERMAIN
- SV [X] PROPOSED SLUICE VALVE
- GV [●] PROPOSED GATE VALVE
- RMSV [X] PROPOSED RIDERMAIN SCOUR VALVE
- FH [H] PROPOSED PROPOSED HYDRANT
- [W] — PROPOSED TOBY (8 25mm ID CONNECTION)
- [P] PROPOSED POWER TUD
- [T] PROPOSED TELCO TUD
- [●] STREETLIGHT
- [■] TRANSFORMER
- T — PROPOSED TELCO
- LV — PROPOSED POWER LOW VOLTAGE
- HV — PROPOSED POWER HIGH VOLTAGE
- S — PROPOSED STREELIGHTING

- NOTES:**
1. ALL WORKS, MATERIALS AND FITTINGS TO BE IN ACCORDANCE WITH WAIKATO LOCAL AUTHORITY SHARED SERVICES REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
 2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH AND SAFETY ACT 2016.
 3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 4. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 5. WATER SUPPLY PIPES TO BE:
 - WATERMAIN TO BE 1500OD PVC-O PN12.5.
 - RIDERMAIN TO BE 6300OD PE100 SDR11.
 6. ALL LOTS TO BE PROVIDED WITH 250 ID CONNECTION WITH GATE VALVE AND WATER METER BOXES.
 7. THESE SERVICES PLANS ARE SCHEMATIC ONLY AND SHOULD BE READ IN CONJUNCTION WITH SERVICE PROVIDER PLANS.
 8. REFER TO DWG 1543-01-590-593 FOR DETAILS

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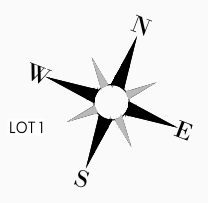
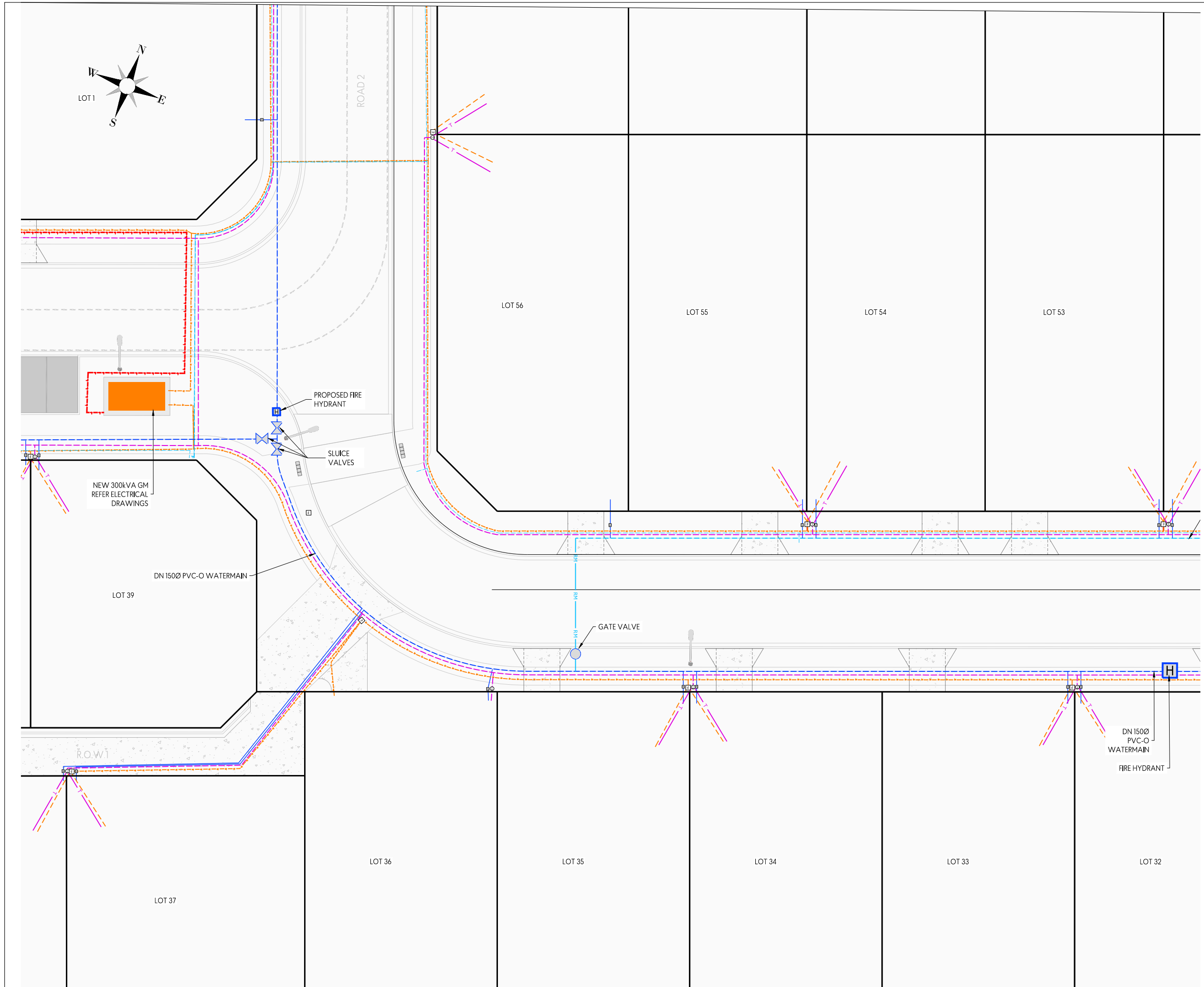
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29/04/2025
FC2	UPDATED LIGHTING PLANS	CMW	13/11/2025

PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
 SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
WATER SUPPLY & SERVICES LAYOUT PLAN
 SHEET 1 OF 6



DESIGNED: LVG	DRAWN: LVG
CHECKED: LF	DATE: 29-04-2025
SCALE A1: 1:500	SCALE A3: 1:1000
STATUS: FOR CONSTRUCTION	
PROJECT No: 1543-01	DRAWING No: 501
	REVISION: FC2



LEGEND:

— W —	EXISTING DN150 WATERMAIN
FH [H]	EXISTING HYDRANT
SV [X]	EXISTING SLUICE VALVE
— W —	PROPOSED DN150 WATERMAIN
— RM —	PROPOSED 63 OD PE100 SDR11 RIDERMAIN
SV [X]	PROPOSED SLUICE VALVE
GV ●	PROPOSED GATE VALVE
RMSV [X]	PROPOSED RIDERMAIN SCOUR VALVE
FH [H]	PROPOSED PROPOSED HYDRANT
[W]	PROPOSED TOBY (8 25mm ID CONNECTION)
[P]	PROPOSED POWER TUD
[T]	PROPOSED TELCO TUD
[S]	STREETLIGHT
[ORANGE BOX]	TRANSFORMER
— T —	PROPOSED TELCO
— HV —	PROPOSED POWER HIGH VOLTAGE
— S —	PROPOSED STREELIGHTING

- NOTES:**
1. ALL WORKS, MATERIALS AND FITTINGS TO BE IN ACCORDANCE WITH WAIKATO LOCAL AUTHORITY SHARED SERVICES REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
 2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH AND SAFETY ACT 2016.
 3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 4. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 5. WATER SUPPLY PIPES TO BE:
 - WATERMAIN TO BE 150ØOD PVC-O PN12.5.
 - RIDERMAIN TO BE 63ØOD PE100 SDR11.
 6. ALL LOTS TO BE PROVIDED WITH 25Ø ID CONNECTION WITH GATE VALVE AND WATER METER BOXES.
 7. THESE SERVICES PLANS ARE SCHEMATIC ONLY AND SHOULD BE READ IN CONJUNCTION WITH SERVICE PROVIDER PLANS.
 8. REFER TO DWG 1543-01-590-593 FOR DETAILS

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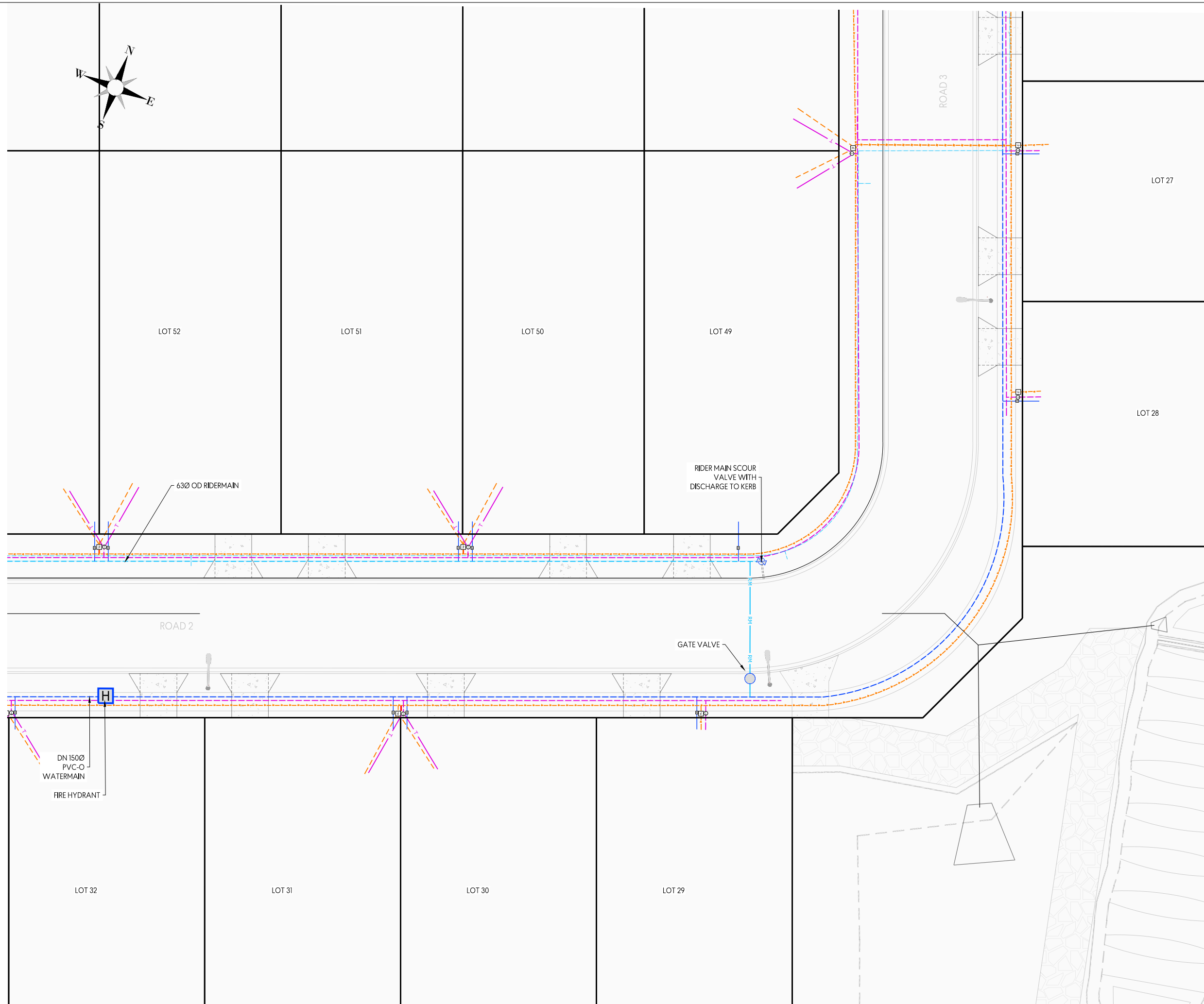
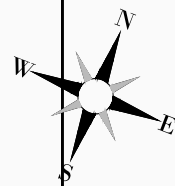
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29.04.2025
FC2	UPDATED LIGHTING PLANS	CMW	13.11.2025

PROJECT:
 RAUKAWA IWI DEVELOPMENT LTD
 SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
 WATER SUPPLY & SERVICES LAYOUT PLAN
 SHEET 2 OF 6



DESIGNED: LVG	DRAWN: LVG
CHECKED: LF	DATE: 29-04-2025
SCALE A1: 1:500	SCALE A3: 1:1000
STATUS: FOR CONSTRUCTION	
PROJECT No: 1543-01	DRAWING No: 502
	REVISION: FC2



LEGEND:

	EXISTING DN150 WATERMAIN
	EXISTING HYDRANT
	EXISTING SLUICE VALVE
	PROPOSED DN150 WATERMAIN
	PROPOSED 63 OD PE100 SDR11 RIDERMAIN
	PROPOSED SLUICE VALVE
	PROPOSED GATE VALVE
	PROPOSED RIDERMAIN SCOUR VALVE
	PROPOSED PROPOSED HYDRANT
	PROPOSED TOBY (8 25mm ID CONNECTION)
	PROPOSED POWER TUD
	PROPOSED TELCO TUD
	STREETLIGHT
	TRANSFORMER
	PROPOSED TELCO
	PROPOSED POWER LOW VOLTAGE
	PROPOSED POWER HIGH VOLTAGE
	PROPOSED STREELIGHTING

- NOTES:**
- ALL WORKS, MATERIALS AND FITTINGS TO BE IN ACCORDANCE WITH WAIKATO LOCAL AUTHORITY SHARED SERVICES REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
 - CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH AND SAFETY ACT 2016.
 - CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 - CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 - WATER SUPPLY PIPES TO BE:
 - WATERMAIN TO BE 150ØOD PVC-O PN12.5.
 - RIDERMAIN TO BE 63ØOD PE100 SDR11.
 - ALL LOTS TO BE PROVIDED WITH 25Ø ID CONNECTION WITH GATE VALVE AND WATER METER BOXES.
 - THESE SERVICES PLANS ARE SCHEMATIC ONLY AND SHOULD BE READ IN CONJUNCTION WITH SERVICE PROVIDER PLANS.
 - REFER TO DWG 1543-01-590-593 FOR DETAILS

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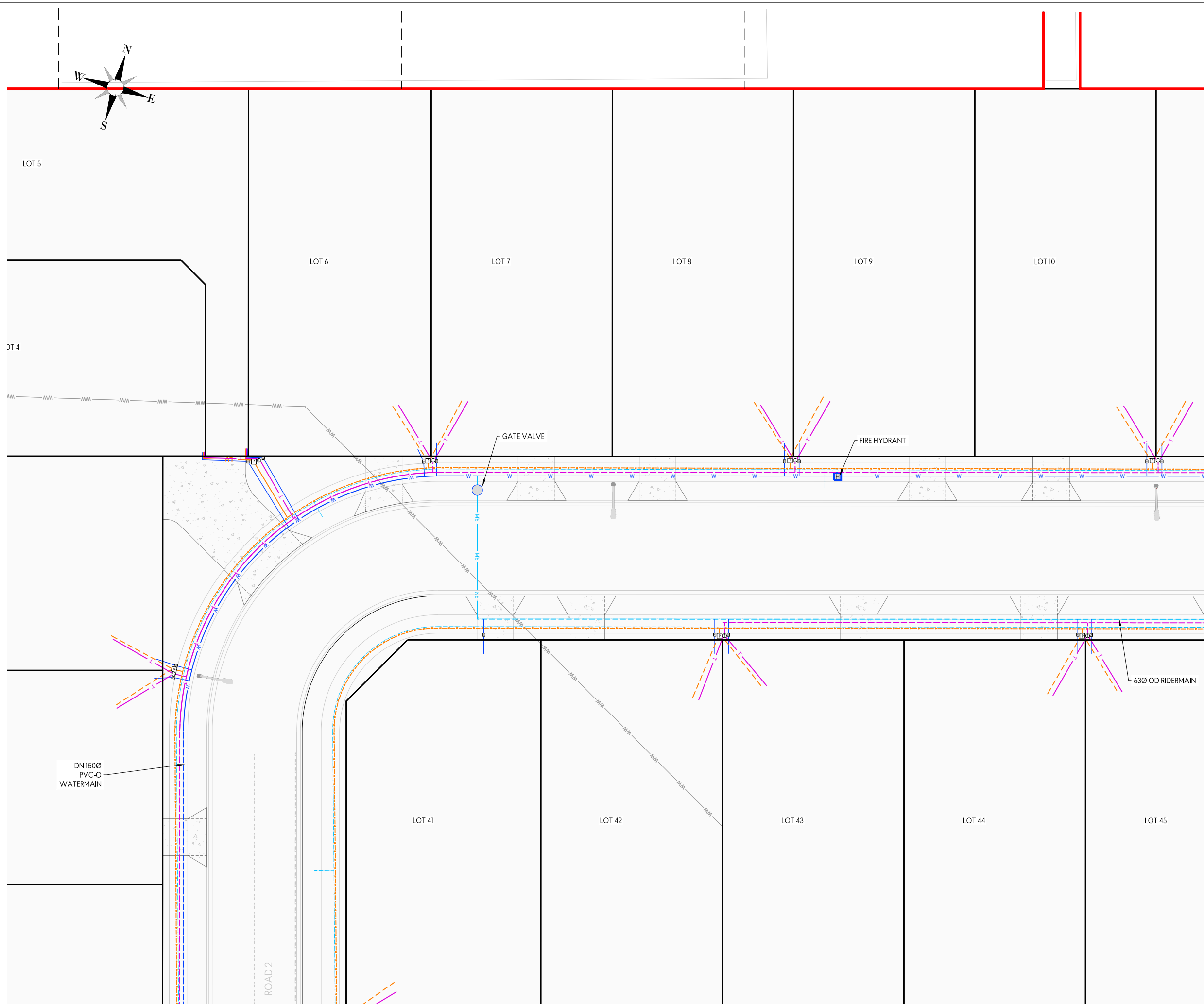
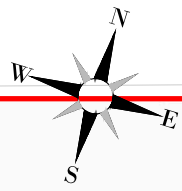
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29.04.2025
FC2	UPDATED LIGHTING PLANS	CMW	13.11.2025

PROJECT:
 RAUKAWA IWI DEVELOPMENT LTD
 SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
 WATER SUPPLY & SERVICES LAYOUT PLAN
 SHEET 3 OF 6



DESIGNED: LVG	DRAWN: LVG
CHECKED: LF	DATE: 29-04-2025
SCALE A1: 1:500	SCALE A3: 1:1000
STATUS: FOR CONSTRUCTION	
PROJECT No: 1543-01	DRAWING No: 503
	REVISION: FC2



LEGEND:

— W —	EXISTING DN150 WATERMAIN
FH [H]	EXISTING HYDRANT
SV [X]	EXISTING SLUICE VALVE
— W —	PROPOSED DN150 WATERMAIN
— RM —	PROPOSED 63 OD PE100 SDR11 RIDERMAIN
SV [X]	PROPOSED SLUICE VALVE
GV ●	PROPOSED GATE VALVE
RMSV [X]	PROPOSED RIDERMAIN SCOUR VALVE
FH [H]	PROPOSED PROPOSED HYDRANT
[W]	PROPOSED TOBY (8 25mm ID CONNECTION)
[P]	PROPOSED POWER TUD
[T]	PROPOSED TELCO TUD
—	STREETLIGHT
[]	TRANSFORMER
— T —	PROPOSED TELCO
—	PROPOSED POWER LOW VOLTAGE
— HV —	PROPOSED POWER HIGH VOLTAGE
— S — S —	PROPOSED STREELIGHTING

- NOTES:**
1. ALL WORKS, MATERIALS AND FITTINGS TO BE IN ACCORDANCE WITH WAIKATO LOCAL AUTHORITY SHARED SERVICES REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
 2. CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH AND SAFETY ACT 2016.
 3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 4. CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 5. WATER SUPPLY PIPES TO BE:
 - WATERMAIN TO BE 150ØOD PVC-O PN12.5.
 - RIDERMAIN TO BE 63ØOD PE100 SDR11.
 6. ALL LOTS TO BE PROVIDED WITH 25Ø ID CONNECTION WITH GATE VALVE AND WATER METER BOXES.
 7. THESE SERVICES PLANS ARE SCHEMATIC ONLY AND SHOULD BE READ IN CONJUNCTION WITH SERVICE PROVIDER PLANS.
 8. REFER TO DWG 1543-01-590-593 FOR DETAILS

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REVISIONS:

REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29.04.2025
FC2	UPDATED LIGHTING PLANS	CMW	13.11.2025

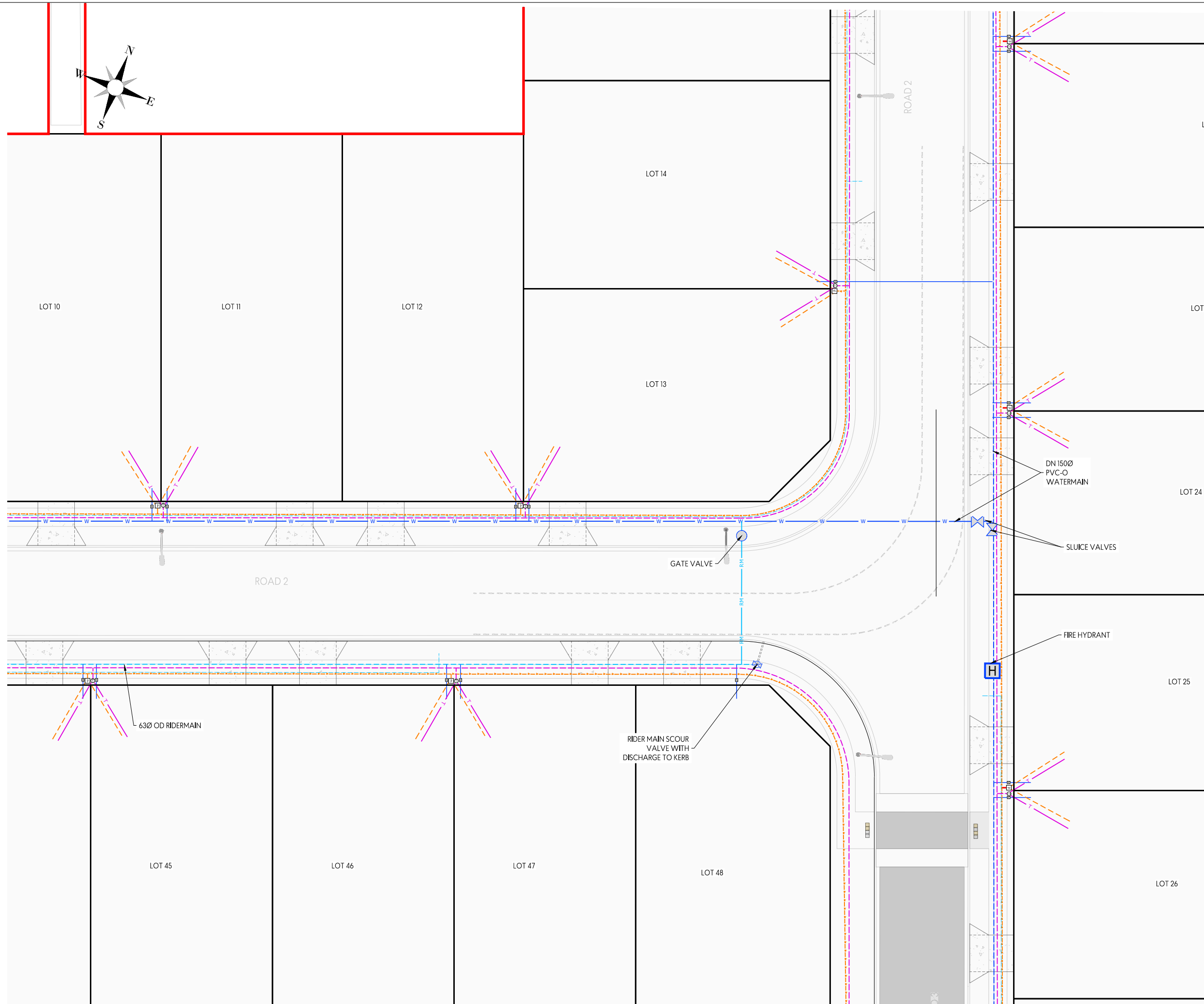
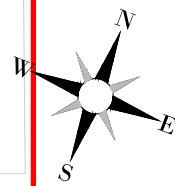
PROJECT:
 RAUKAWA IWI DEVELOPMENT LTD
 SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
 WATER SUPPLY & SERVICES LAYOUT PLAN
 SHEET 4 OF 6



DESIGNED: LVG DRAWN: LVG
 CHECKED: LF DATE: 29-04-2025
 SCALE A1: 1:500 SCALE A3: 1:1000
 STATUS: FOR CONSTRUCTION

PROJECT No: 1543-01 DRAWING No: 504 REVISION: FC2



LEGEND:

— W —	EXISTING DN150 WATERMAIN
FH [H]	EXISTING HYDRANT
SV [X]	EXISTING SLUCE VALVE
— W —	PROPOSED DN150 WATERMAIN
— RM —	PROPOSED 63 OD PE100 SDR11 RIDERMAIN
SV [X]	PROPOSED SLUCE VALVE
GV [●]	PROPOSED GATE VALVE
RMSV [X]	PROPOSED RIDERMAIN SCOUR VALVE
FH [H]	PROPOSED PROPOSED HYDRANT
[W]	PROPOSED TOBY (8 25mm ID CONNECTION)
[P]	PROPOSED POWER TUD
[T]	PROPOSED TELCO TUD
[STREETLIGHT]	STREETLIGHT
[TRANSFORMER]	TRANSFORMER
— T —	PROPOSED TELCO
— LV —	PROPOSED POWER LOW VOLTAGE
— HV —	PROPOSED POWER HIGH VOLTAGE
— S —	PROPOSED STREELIGHTING

- NOTES:**
- ALL WORKS, MATERIALS AND FITTINGS TO BE IN ACCORDANCE WITH WAIKATO LOCAL AUTHORITY SHARED SERVICES REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
 - CONTRACTOR TO COMPLY WITH REQUIREMENTS OF HEALTH AND SAFETY ACT 2016.
 - CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES.
 - CONTRACTOR TO REINSTATE ALL AFFECTED SURFACE AREAS.
 - WATER SUPPLY PIPES TO BE:
 - WATERMAIN TO BE 150ØOD PVC-O PN12.5.
 - RIDERMAIN TO BE 63ØOD PE100 SDR11.
 - ALL LOTS TO BE PROVIDED WITH 25Ø ID CONNECTION WITH GATE VALVE AND WATER METER BOXES.
 - THESE SERVICES PLANS ARE SCHEMATIC ONLY AND SHOULD BE READ IN CONJUNCTION WITH SERVICE PROVIDER PLANS.
 - REFER TO DWG 1543-01-590-593 FOR DETAILS

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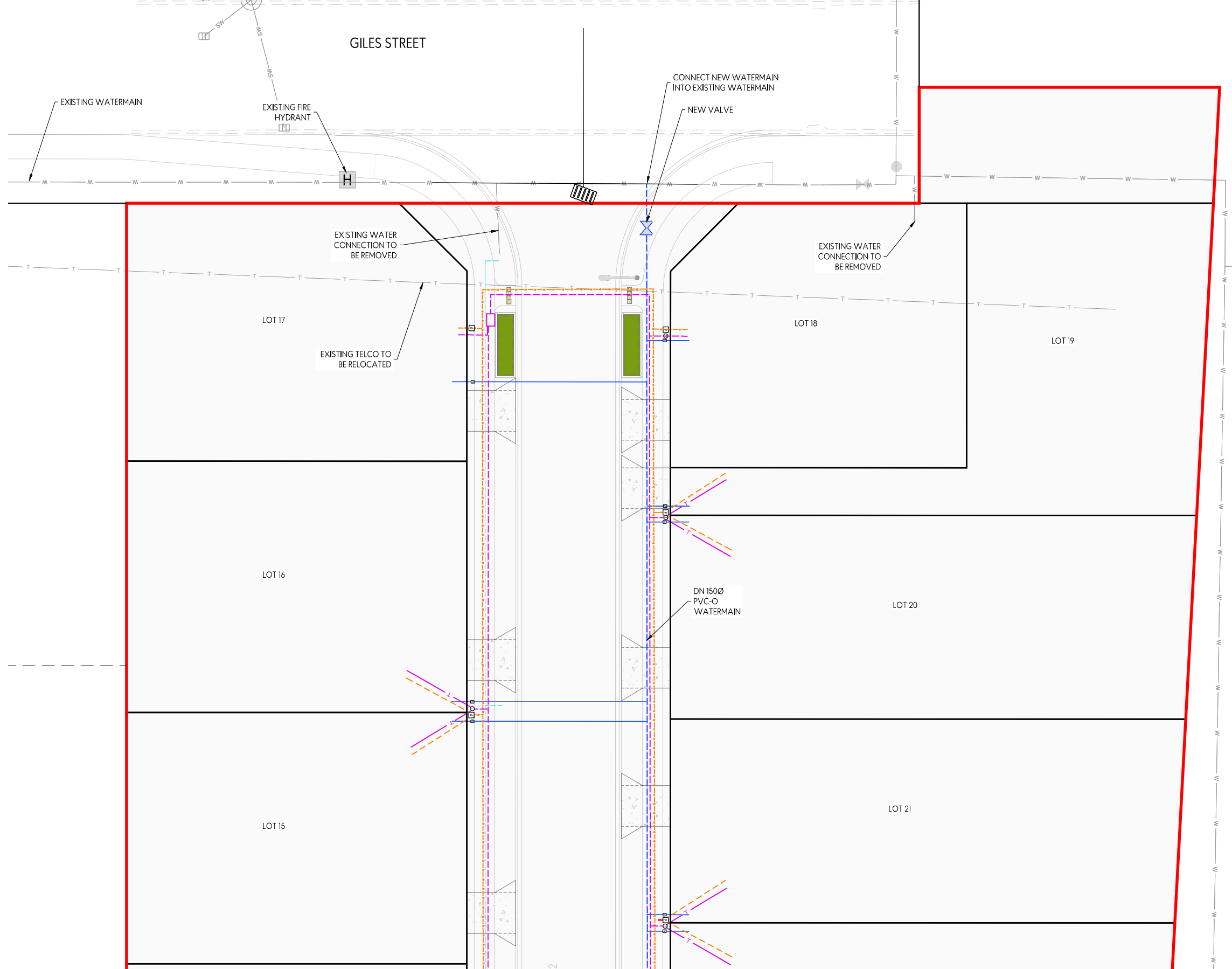
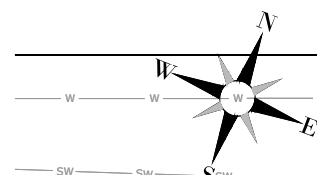
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29.04.2025
FC2	UPDATED LIGHTING PLANS	CMW	13.11.2025

PROJECT:
 RAUKAWA IWI DEVELOPMENT LTD
 SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
 WATER SUPPLY & SERVICES LAYOUT PLAN
 SHEET 5 OF 6



DESIGNED: LVG	DRAWN: LVG
CHECKED: LF	DATE: 29-04-2025
SCALE A1: 1:500	SCALE A3: 1:1000
STATUS: FOR CONSTRUCTION	
PROJECT No: 1543-01	DRAWING No: 505
	REVISION: FC2



PT LOT 4
DP 12974
(ESPLANADE RESERVE)

LEGEND:

- W — EXISTING DN150 WATERMAIN
- FH [H] EXISTING HYDRANT
- SV [X] EXISTING SLUICE VALVE
- W — PROPOSED DN150 WATERMAIN
- RM — PROPOSED 63 OD PE100 SDR11 RIDERMAIN
- SV [X] PROPOSED SLUICE VALVE
- GV [●] PROPOSED GATE VALVE
- RMSV [X] PROPOSED RIDERMAIN SCOUR VALVE
- FH [H] PROPOSED PROPOSED HYDRANT
- [W] — PROPOSED TOBY (Ø 25mm ID CONNECTION)
- [P] PROPOSED POWER TUD
- [T] PROPOSED TELCO TUD
- [S] — PROPOSED STREETLIGHT
- [TRANSFORMER] TRANSFORMER
- T — PROPOSED TELCO
- HV — PROPOSED POWER HIGH VOLTAGE
- S — PROPOSED STREELIGHTING

- NOTES:**
1. ALL WORKS, MATERIALS AND FITTINGS TO BE IN ACCORDANCE WITH WAIKATO LOCAL AUTHORITY SHARED SERVICES REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
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 5. WATER SUPPLY PIPES TO BE:
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 - RIDERMAIN TO BE 63ØOD PE100 SDR11.
 6. ALL LOTS TO BE PROVIDED WITH 25Ø ID CONNECTION WITH GATE VALVE AND WATER METER BOXES.
 7. THESE SERVICES PLANS ARE SCHEMATIC ONLY AND SHOULD BE READ IN CONJUNCTION WITH SERVICE PROVIDER PLANS.
 8. REFER TO DWG 1543-01-590-593 FOR DETAILS

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REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	CMW	29/04/2025
FC2	UPDATED LIGHTING PLANS	CMW	13/11/2025

PROJECT:
RAUKAWA IWI DEVELOPMENT LTD
 SUBDIVISION - TOKOROA EAST SCHOOL
 MAIN ROAD, TOKOROA

TITLE:
WATER SUPPLY & SERVICES LAYOUT PLAN
 SHEET 6 OF 6



DESIGNED: LVG DRAWN: LVG
 CHECKED: LF DATE: 29-04-2025
 SCALE A1: 1:500 SCALE A3: 1:1000
 STATUS: FOR CONSTRUCTION
 PROJECT No: 1543-01 DRAWING No: 506 REVISION: FC2