

CLIENT:
TARANAKI IWI HOLDINGS LIMITED
PARTNERSHIP

PROJECT:
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

PLAN SET:
CIVIL ENGINEERING DESIGN DRAWINGS

ISSUE:
FOR CONSTRUCTION

DATE:
23rd JULY 2025

REFERENCE:
1653-01



LOCATION PLAN
SCALE A1 - 1:1000, A3 - 1:2000



CLIENT:
TARANAKI IWI HOLDINGS LIMITED
PARTNERSHIP

PROJECT:
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

PLAN SET:
CIVIL ENGINEERING DESIGN DRAWINGS

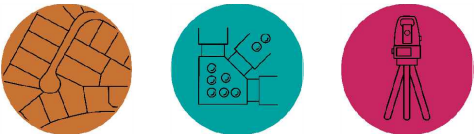
ISSUE:
FOR CONSTRUCTION

DATE:
23rd JULY 2025

REFERENCE:
1653-01


DRAWING INDEX		
DRAWING	REVISION	TITLE
1653-01-200	FC2	EXISTING CONTOUR PLAN
1653-01-210	FC2	PROPOSED CONTOUR PLAN
1653-01-220	FC2	PROPOSED CUT/FILL CONTOUR PLAN
1653-01-240	FC2	PROPOSED EROSION AND SEDIMENT CONTROL PLAN
1653-01-250	FC2	EROSION AND SEDIMENT CONTROL DETAILS SHEET 1 OF 2
1653-01-251	FC2	EROSION AND SEDIMENT CONTROL DETAILS SHEET 2 OF 2
1653-01-260	FC2	RETAINING WALL LAYOUT PLAN
1653-01-261	FC2	RETAINING WALL SECTIONS
1653-01-270	FC2	SITE SECTIONS LAYOUT PLAN
1653-01-275	FC2	SITE SECTIONS SHEET 1 OF 3
1653-01-276	FC2	SITE SECTIONS SHEET 2 OF 3
1653-01-277	FC2	SITE SECTIONS SHEET 3 OF 3
1653-01-300	FC2	PROPOSED ROADING PLAN OVERVIEW
1653-01-301	FC2	PROPOSED ROADING PLAN SHEET 1 OF 3
1653-01-302	FC2	PROPOSED ROADING PLAN SHEET 2 OF 3
1653-01-303	FC2	PROPOSED ROADING PLAN SHEET 3 OF 3
1653-01-310	FC2	PROPOSED KERBING PLAN
1653-01-320	FC2	PROPOSED PAVEMENT PLAN
1653-01-330	FC2	PROPOSED ROAD LONG SECTIONS
1653-01-340	FC2	PROPOSED ROAD TYPICAL CROSS SECTIONS SHEET 1 OF 2
1653-01-341	FC2	PROPOSED ROAD TYPICAL CROSS SECTIONS SHEET 2 OF 2
1653-01-390	FC2	PROPOSED ROAD TYPICAL DETAILS SHEET 1 OF 3
1653-01-391	FC2	PROPOSED ROAD TYPICAL DETAILS SHEET 2 OF 3
1653-01-392	FC2	PROPOSED ROAD TYPICAL DETAILS SHEET 3 OF 3


DRAWING INDEX		
DRAWING	REVISION	TITLE
1653-01-400	FC2	PROPOSED DRAINAGE OVERVIEW
1653-01-401	FC2	PROPOSED DRAINAGE PLAN SHEET 1 OF 3
1653-01-402	FC2	PROPOSED DRAINAGE PLAN SHEET 2 OF 3
1653-01-403	FC2	PROPOSED DRAINAGE PLAN SHEET 3 OF 3
1653-01-430	FC2	PROPOSED STORMWATER LONG-SECTIONS
1653-01-450	FC2	PROPOSED STORMWATER WETLANDS SECTION AND DETAILS
1653-01-451	FC2	PROPOSED STORMWATER WETLANDS DETAILS
1653-01-490	FC2	PROPOSED DRAINAGE DETAILS SHEET 1 OF 6
1653-01-491	FC2	PROPOSED DRAINAGE DETAILS SHEET 2 OF 6
1653-01-492	FC2	PROPOSED DRAINAGE DETAILS SHEET 3 OF 6
1653-01-493	FC2	PROPOSED DRAINAGE DETAILS SHEET 4 OF 6
1653-01-494	FC2	PROPOSED DRAINAGE DETAILS SHEET 5 OF 6
1653-01-495	FC2	PROPOSED DRAINAGE DETAILS SHEET 6 OF 6
1653-01-500	FC2	PROPOSED WATER AND SERVICES OVERVIEW
1653-01-501	FC2	WATER & SERVICES LAYOUT PLAN SHEET 1 OF 2
1653-01-502	FC2	WATER & SERVICES LAYOUT PLAN SHEET 2 OF 2
1653-01-590	FC2	WATER & SERVICES DETAILS SHEET 1 OF 7
1653-01-591	FC2	WATER & SERVICES DETAILS SHEET 2 OF 7
1653-01-592	FC2	WATER & SERVICES DETAILS SHEET 3 OF 7
1653-01-593	FC2	WATER & SERVICES DETAILS SHEET 4 OF 7
1653-01-594	FC2	WATER & SERVICES DETAILS SHEET 5 OF 7
1653-01-595	FC2	WATER & SERVICES DETAILS SHEET 6 OF 7
1653-01-596	FC2	WATER & SERVICES DETAILS SHEET 7 OF 7





LEGEND:

 EXISTING CONTOURS SHOWN AT 0.5m INTERVALS

 SHOWS EXTENT OF SURVEY CONTOURS

- NOTES:**
- CONTOURS SHOWN WITHIN SURVEY EXTENT ARE FROM TAYLOR PATRICK RECEIVED ON 11-08-2022. CONTOURS OUT SIDE THE EXTENTS OF SURVEY ARE FROM 2021 1m DEM LIDAR.
 - LEVELS ARE IN TERMS OF NZ VERTICAL DATUM 2016 SURVEY ORIGIN OF LEVELS: OIB VIII DP 12305 RL 100m
 - COORDINATES ARE IN TERMS NZ GEODETIC DATUM 2000 TARANAKI CIRCUIT ORIGIN OF COORDINATES OIT 2 SO 453138 793773.636mN 370056.812 mE

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.

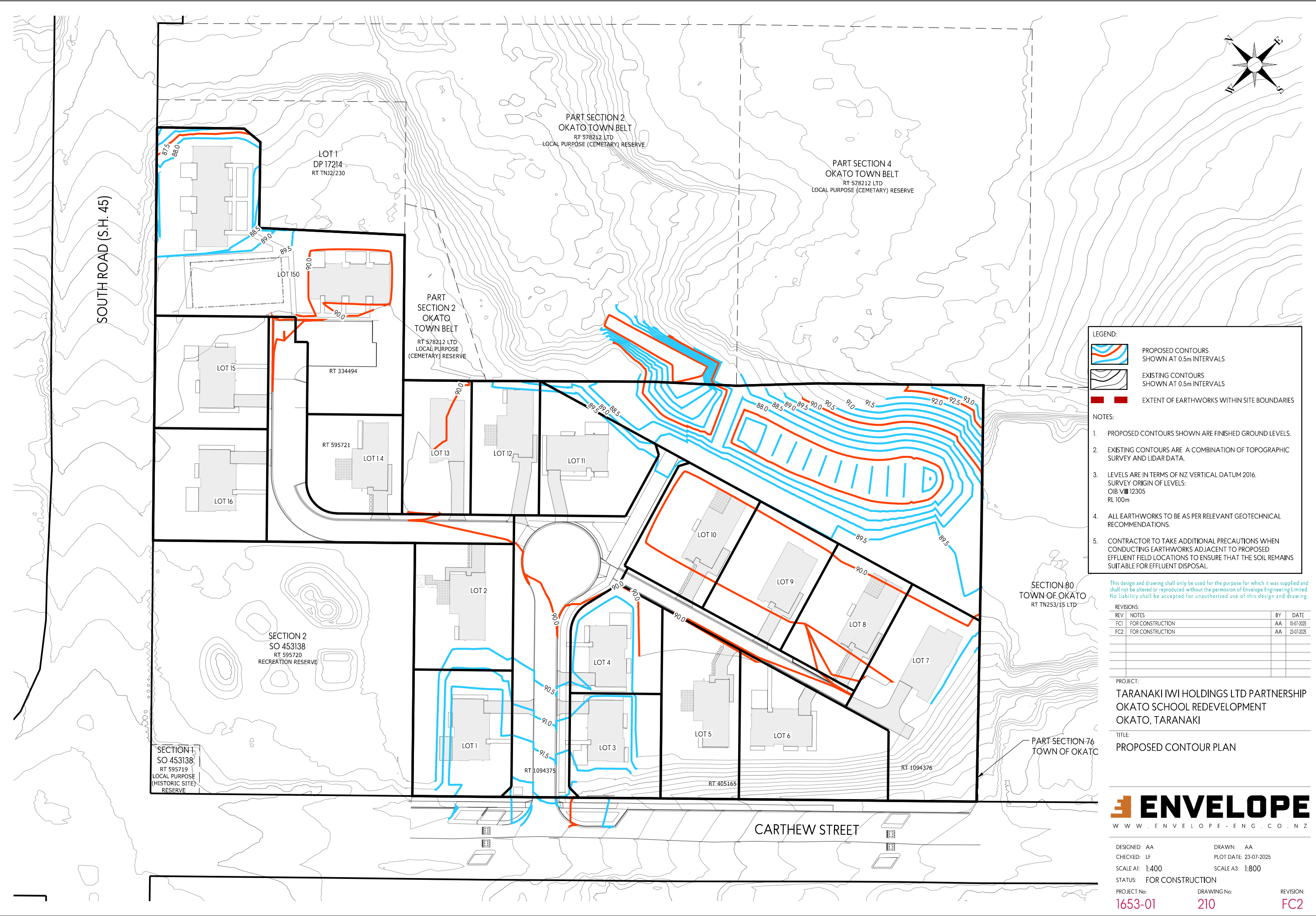
REVISIONS:		BY	DATE
REV	NOTES		
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

TITLE:
EXISTING CONTOUR PLAN



DESIGNED: AA	DRAWN: AA	REVISION:
CHECKED: LF	PLOT DATE: 23-07-2025	
SCALE A1: 1:400	SCALE A3: 1:800	
STATUS: FOR CONSTRUCTION		
PROJECT No: 1653-01	DRAWING No: 200	REVISION: FC2



LEGEND:

- PROPOSED CONTOURS SHOWN AT 0.5m INTERVALS
- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
- EXTENT OF EARTHWORKS WITHIN SITE BOUNDARIES

NOTES:

- PROPOSED CONTOURS SHOWN ARE FINISHED GROUND LEVELS.
- EXISTING CONTOURS ARE A COMBINATION OF TOPOGRAPHIC SURVEY AND LIDAR DATA.
- LEVELS ARE IN TERMS OF NZ VERTICAL DATUM 2016. SURVEY ORIGIN OF LEVELS: OIB V III 12305 RL 100m
- ALL EARTHWORKS TO BE AS PER RELEVANT GEOTECHNICAL RECOMMENDATIONS.
- CONTRACTOR TO TAKE ADDITIONAL PRECAUTIONS WHEN CONDUCTING EARTHWORKS ADJACENT TO PROPOSED EFFLUENT FIELD LOCATIONS TO ENSURE THAT THE SOIL REMAINS SUITABLE FOR EFFLUENT DISPOSAL.

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.

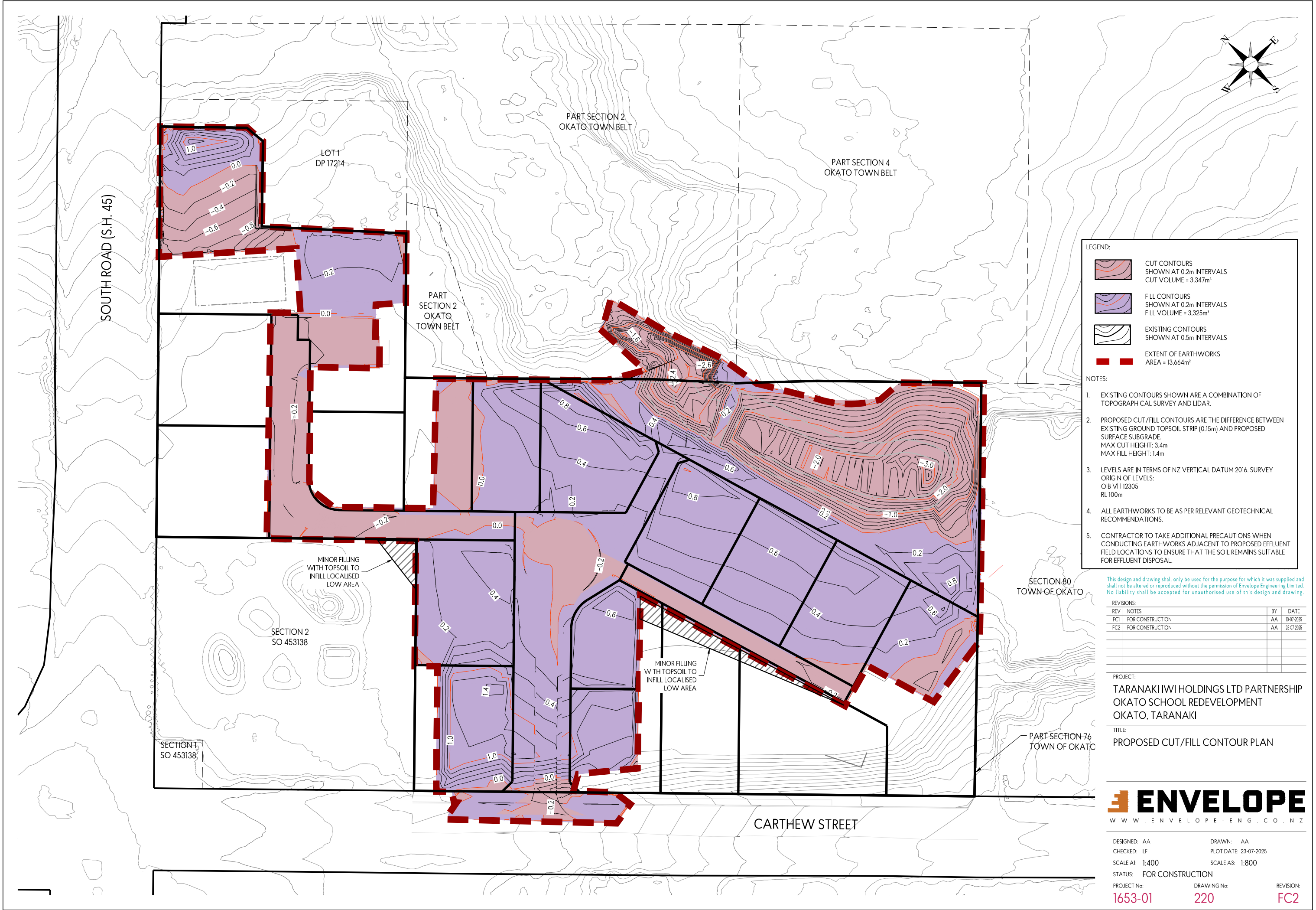
REVISIONS:			
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

TITLE:
PROPOSED CONTOUR PLAN



DESIGNED: AA	DRAWN: AA
CHECKED: LF	PLOT DATE: 23-07-2025
SCALE A1: 1:400	SCALE A3: 1:800
STATUS: FOR CONSTRUCTION	
PROJECT No: 1653-01	DRAWING No: 210
	REVISION: FC2



LEGEND:

- CUT CONTOURS
SHOWN AT 0.2m INTERVALS
CUT VOLUME = 3,347m³
- FILL CONTOURS
SHOWN AT 0.2m INTERVALS
FILL VOLUME = 3,325m³
- EXISTING CONTOURS
SHOWN AT 0.5m INTERVALS
- EXTENT OF EARTHWORKS
AREA = 13,664m²

NOTES:

- EXISTING CONTOURS SHOWN ARE A COMBINATION OF TOPOGRAPHICAL SURVEY AND LIDAR.
- PROPOSED CUT/FILL CONTOURS ARE THE DIFFERENCE BETWEEN EXISTING GROUND TOPSOIL STRIP (0.15m) AND PROPOSED SURFACE SUBGRADE.
MAX CUT HEIGHT: 3.4m
MAX FILL HEIGHT: 1.4m
- LEVELS ARE IN TERMS OF NZ VERTICAL DATUM 2016. SURVEY ORIGIN OF LEVELS:
OIB VIII 12305
RL 100m
- ALL EARTHWORKS TO BE AS PER RELEVANT GEOTECHNICAL RECOMMENDATIONS.
- CONTRACTOR TO TAKE ADDITIONAL PRECAUTIONS WHEN CONDUCTING EARTHWORKS ADJACENT TO PROPOSED EFFLUENT FIELD LOCATIONS TO ENSURE THAT THE SOIL REMAINS SUITABLE FOR EFFLUENT DISPOSAL.

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.

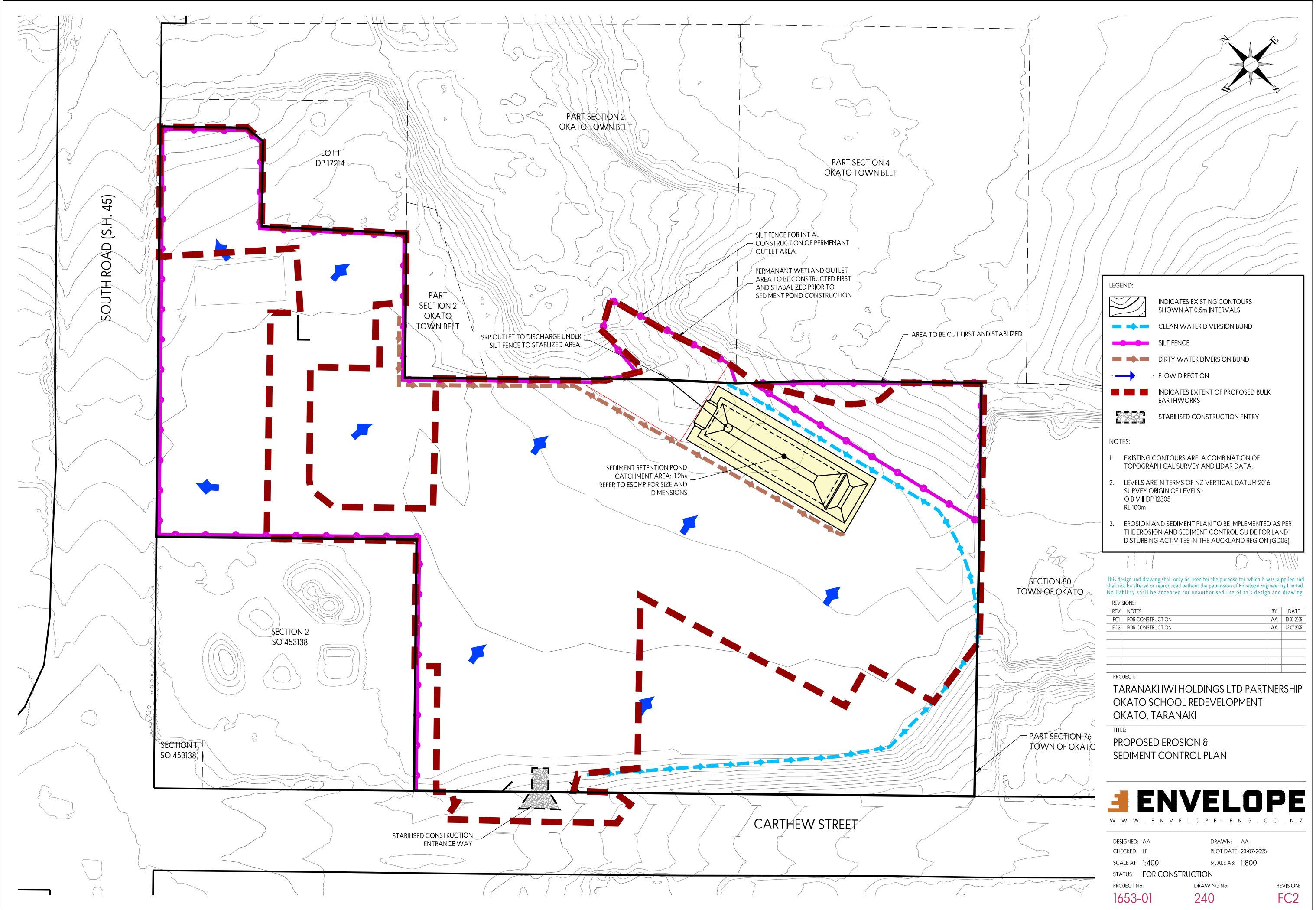
REVISIONS:		BY	DATE
REV	NOTES		
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

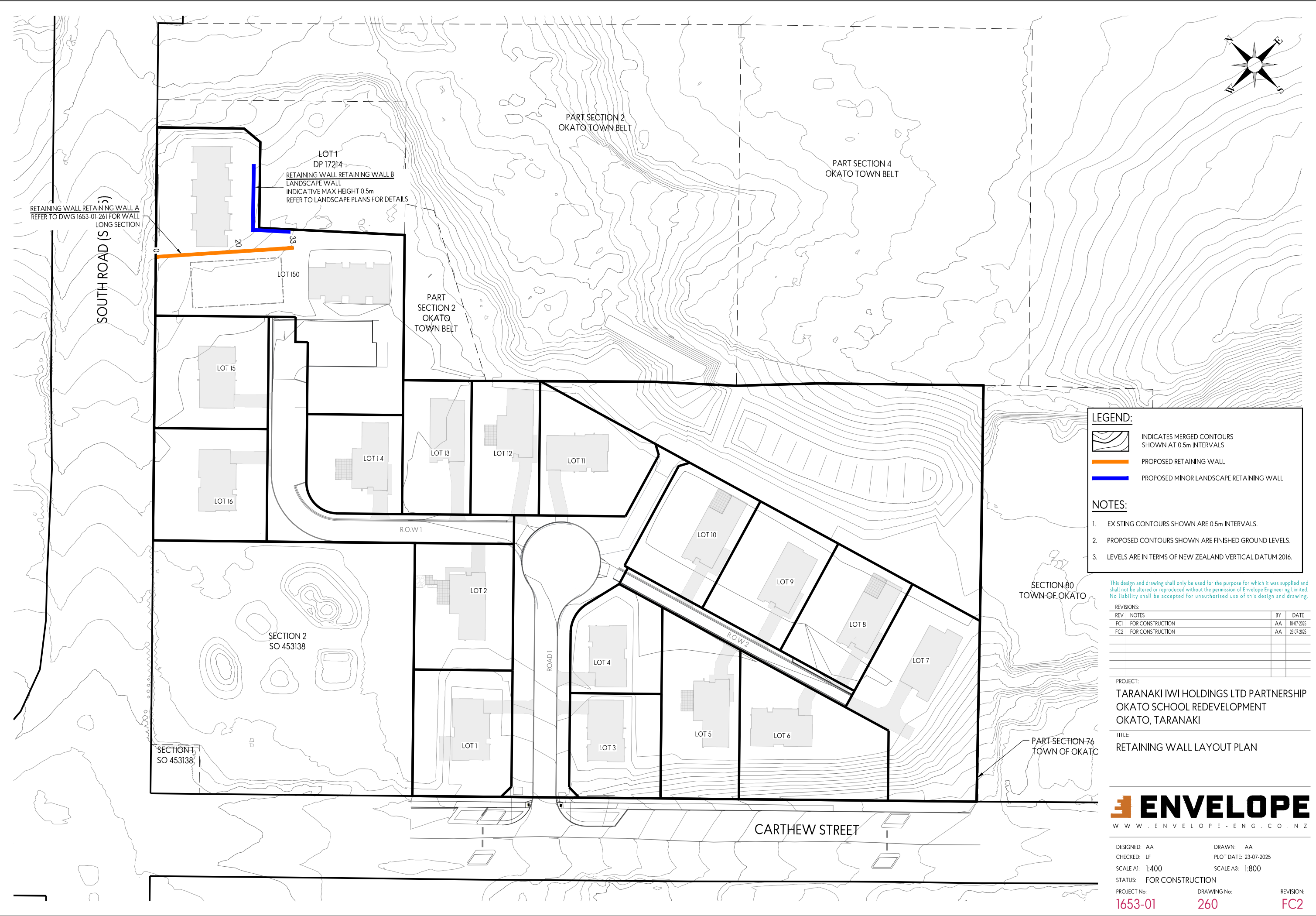
PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

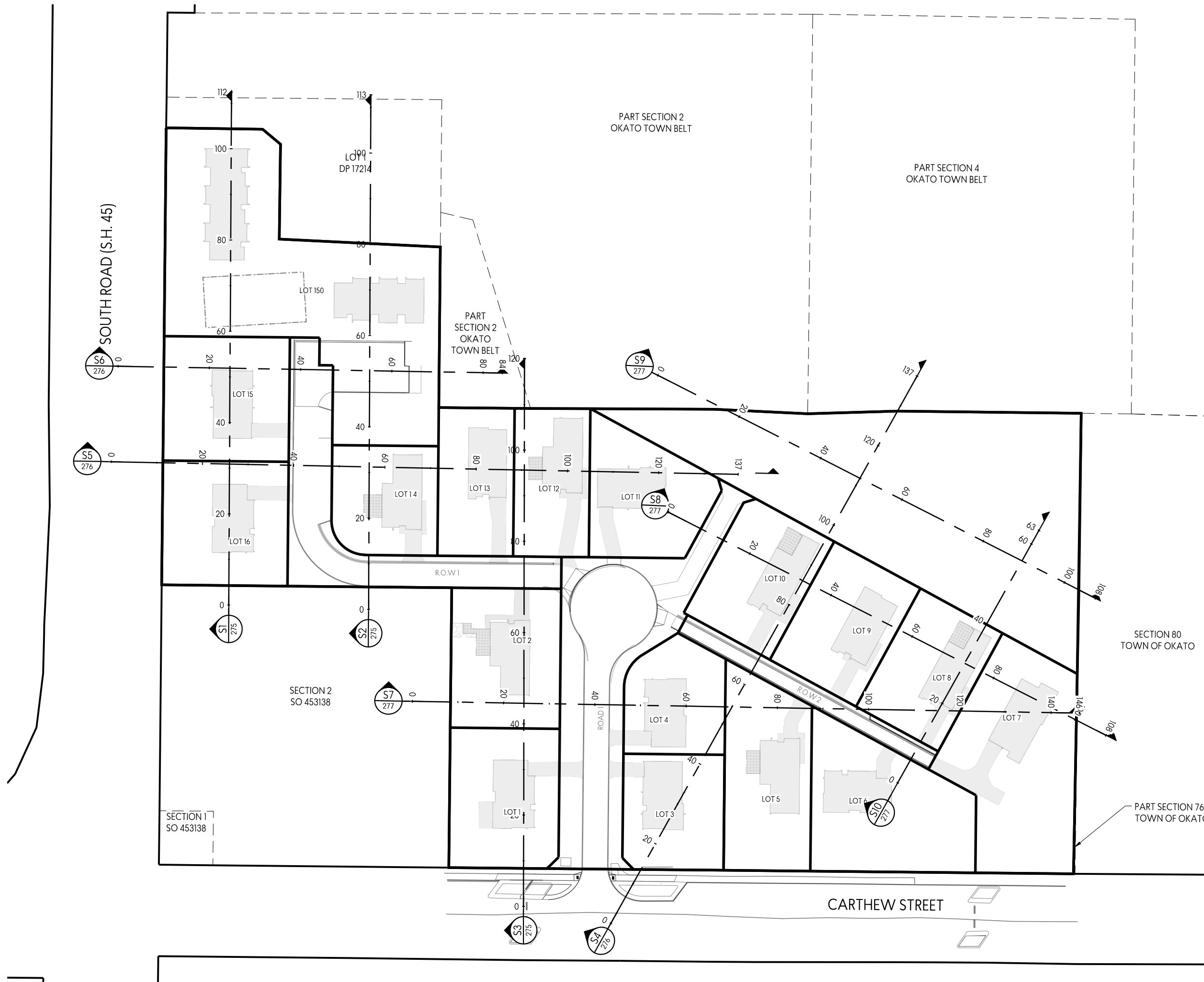
TITLE:
PROPOSED CUT/FILL CONTOUR PLAN



DESIGNED: AA	DRAWN: AA
CHECKED: LF	PLOT DATE: 23-07-2025
SCALE A1: 1:400	SCALE A3: 1:800
STATUS: FOR CONSTRUCTION	
PROJECT No: 1653-01	DRAWING No: 220
	REVISION: FC2







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.

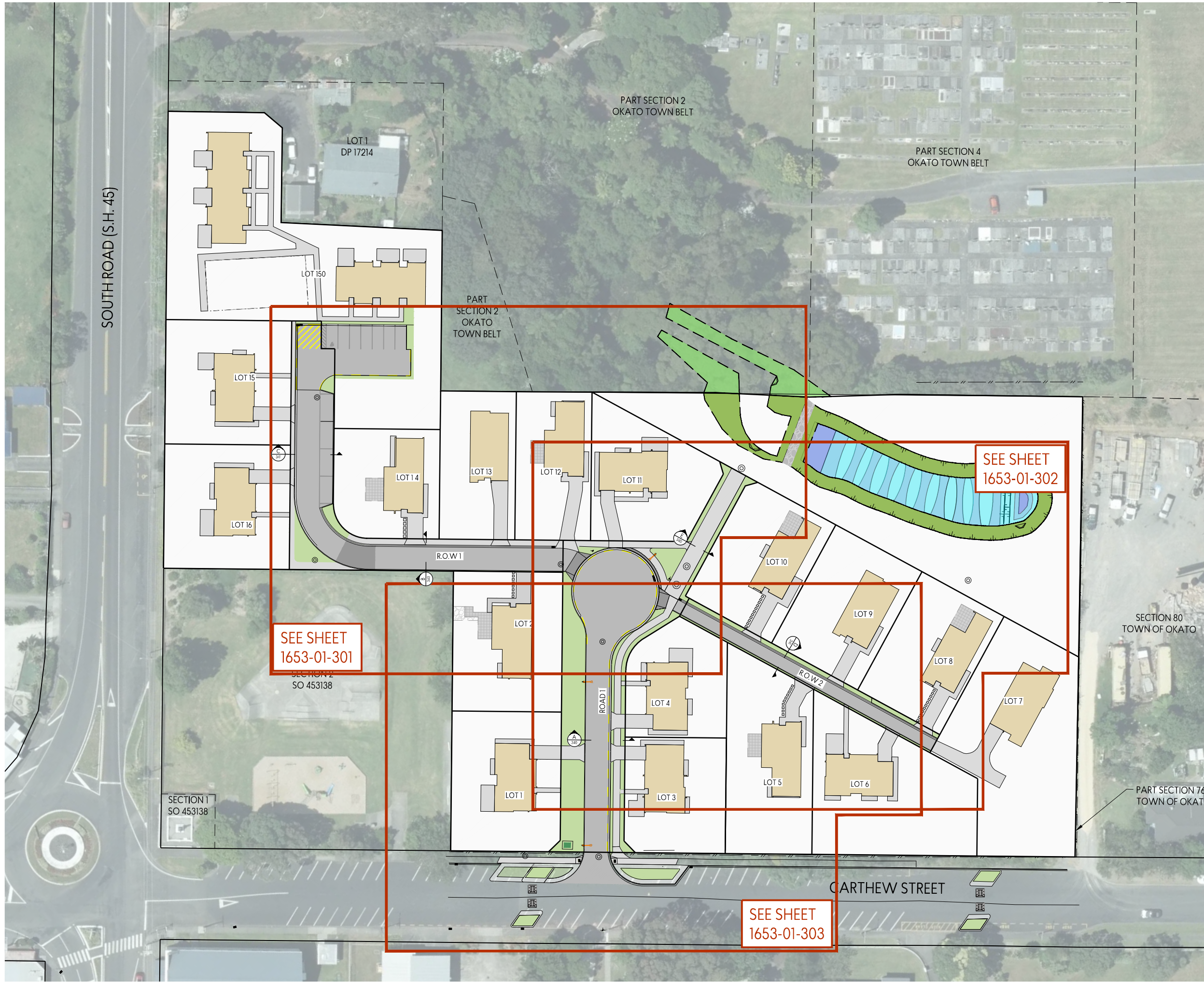
REVISIONS:		BY	DATE
REV	NOTES		
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

TITLE:
SITE SECTIONS LAYOUT PLAN



DESIGNED: AA	DRAWN: AA	
CHECKED: LF	PLOT DATE: 23-07-2025	
SCALE A1: 1:400	SCALE A3: 1:800	
STATUS: FOR CONSTRUCTION		
PROJECT No: 1653-01	DRAWING No: 270	REVISION: FC2



LEGEND:

- PROPOSED ASPHALT PAVEMENT ACCESSWAY
- PROPOSED CONCRETE FOOT PATH OR DRIVEWAY
- PROPOSED DECORATIVE SURFACE PAVEMENT (REFER TO LANDSCAPE ARCHITECT)
- PROPOSED BERM
- PROPOSED DWELLING
- PROPOSED DECK
- LOT BOUNDARIES

NOTES:

- REFER TO DWG 1653-01-330 FOR LONG SECTIONS
- REFER TO DWG 1653-01-340 & 341 FOR CROSS SECTIONS.
- REFER TO DWG 1653-01-390-392 FOR ROADING DETAILS
- ALL SIGNAGE AND ROAD MARKINGS TO BE IN ACCORDANCE WITH THE NZTA TRAFFIC CONTROL DEVICES MANUAL
- DRIVEWAYS AND DROP KERBS TO BE FORMED TO THE PROPERTY BOUNDARY ONLY.

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.

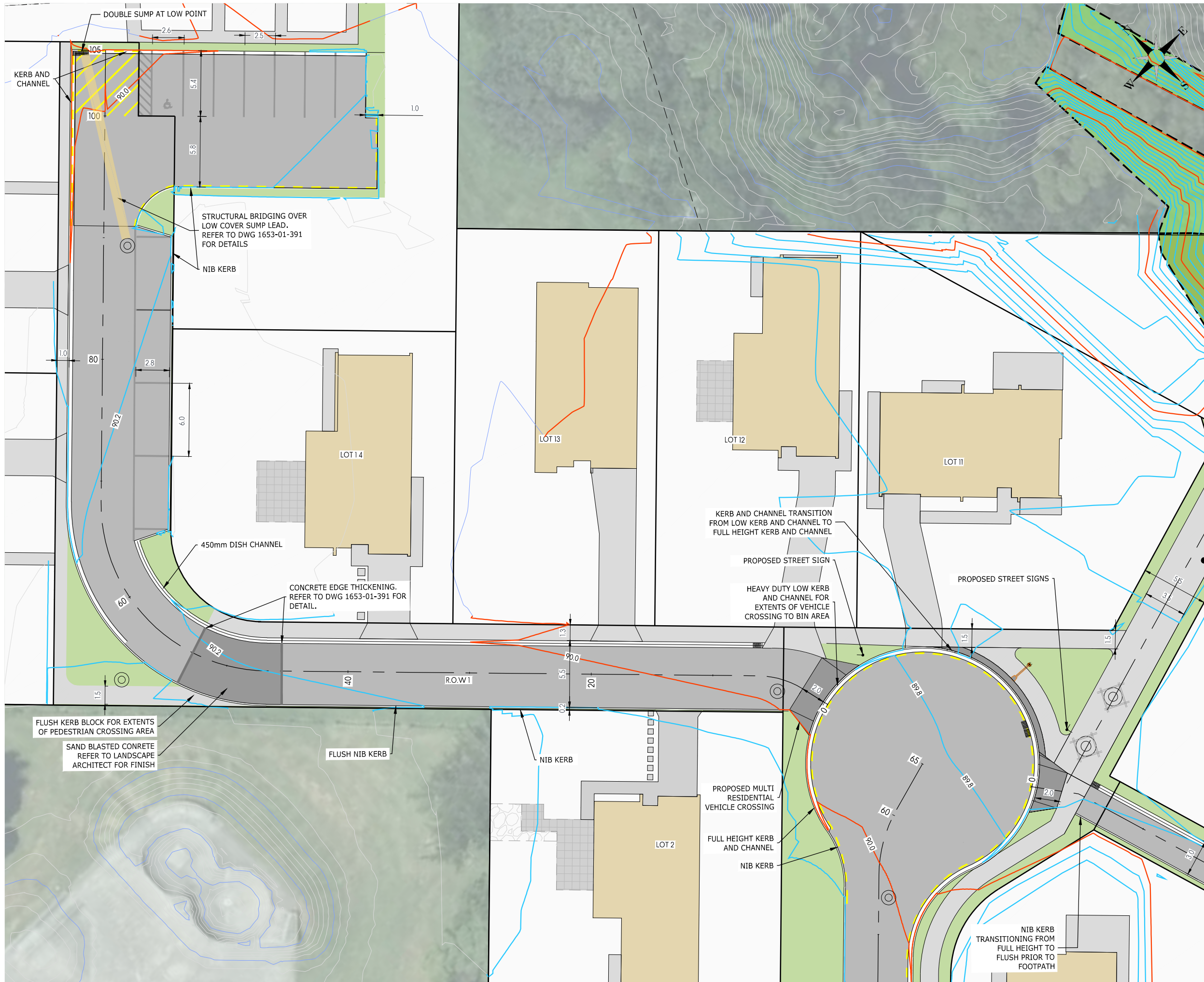
REVISIONS:		BY	DATE
REV	NOTES		
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

TITLE:
PROPOSED ROADING PLAN OVERVIEW



DESIGNED: AA	DRAWN: AA
CHECKED: LF	PLOT DATE: 23-07-2025
SCALE A1: 1:400	SCALE A3: 1:800
STATUS: FOR CONSTRUCTION	
PROJECT No: 1653-01	DRAWING No: 300
	REVISION: FC2



- LEGEND:
- FINISHED GROUND LEVEL CONTOURS AT 0.2m INTERVALS
 - PROPOSED ASPHALT PAVEMENT ACCESSWAY
 - PROPOSED CONCRETE FOOT PATH OR DRIVEWAY
 - PROPOSED DECORATIVE SURFACE PAVEMENT (REFER TO LANDSCAPE ARCHITECT)
 - PROPOSED DECKING
 - PROPOSED BERM
 - LOT BOUNDARIES

- NOTES:
- REFER TO DWG 1653-01-330 FOR LONG SECTIONS
 - REFER TO DWG 1653-01-340 & 341 FOR CROSS SECTIONS
 - REFER TO DWG 1653-01-390-392 FOR ROADING DETAILS
 - ALL SIGNAGE AND ROAD MARKINGS TO BE IN ACCORDANCE WITH THE NZTA TRAFFIC CONTROL DEVICES MANUAL
 - DRIVEWAYS AND DROP KERBS TO BE FORMED TO THE PROPERTY BOUNDARY ONLY

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.

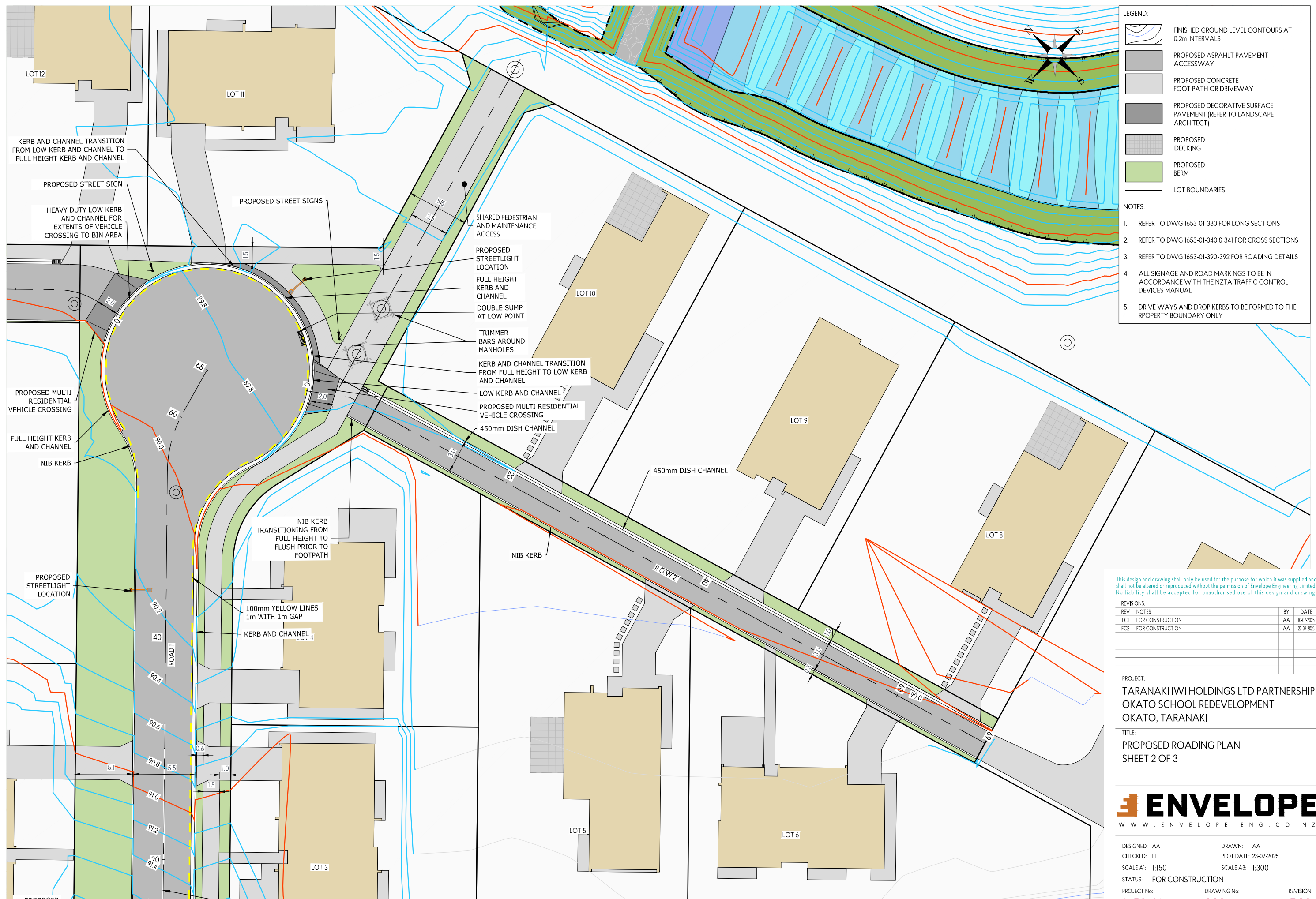
REVISIONS:		BY	DATE
REV	NOTES		
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

TITLE:
PROPOSED ROADING PLAN
SHEET 1 OF 3

ENVELOPE
WWW.ENVELOPE-ENG.CO.NZ

DESIGNED: AA	DRAWN: AA	REVISION: FC2
CHECKED: LF	PLOT DATE: 23-07-2025	
SCALE A1: 1:150	SCALE A3: 1:300	
STATUS: FOR CONSTRUCTION		
PROJECT No: 1653-01	DRAWING No: 301	

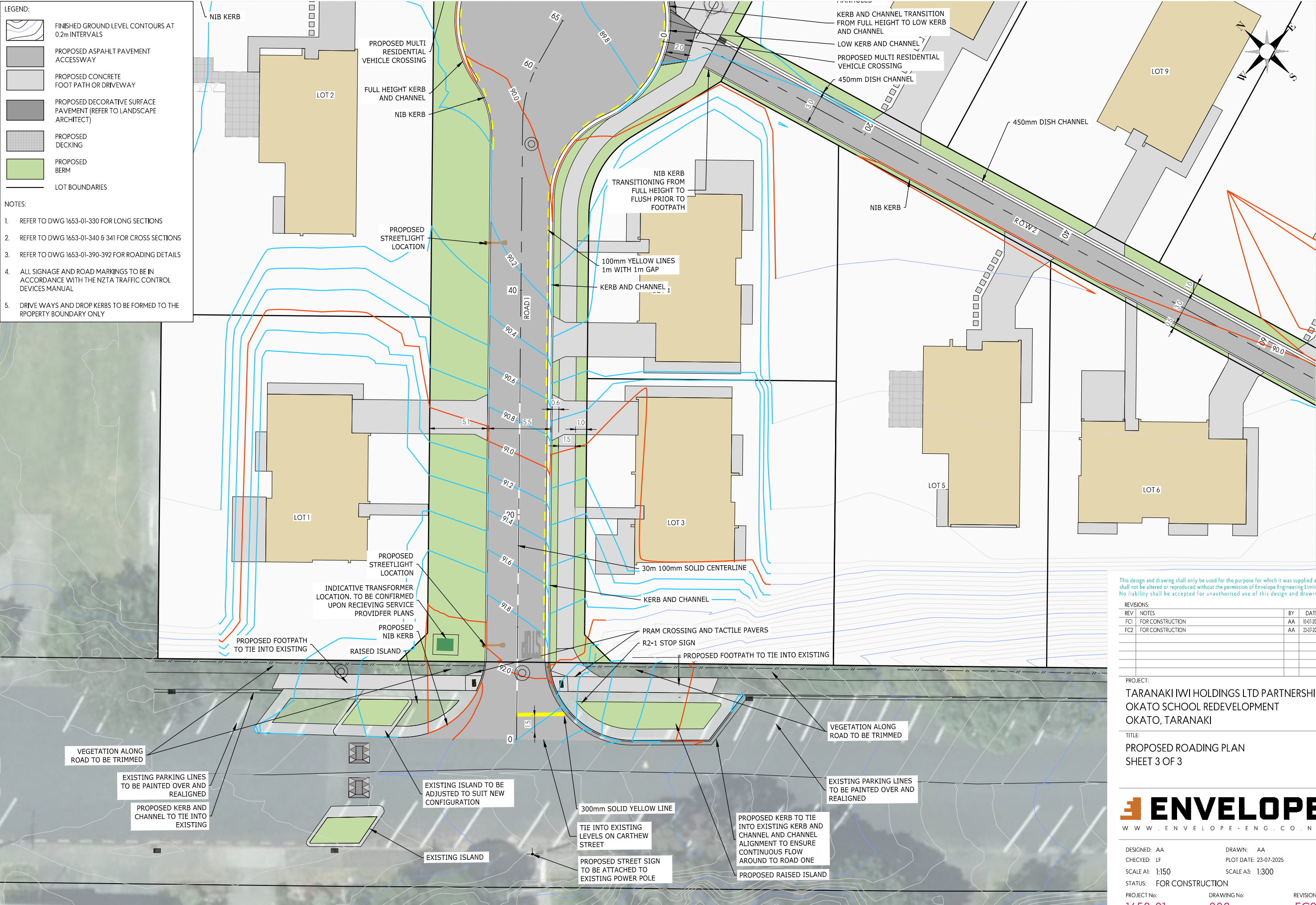


LEGEND:

- FINISHED GROUND LEVEL CONTOURS AT 0.2m INTERVALS
- PROPOSED ASPHALT PAVEMENT ACCESSWAY
- PROPOSED CONCRETE FOOT PATH OR DRIVEWAY
- PROPOSED DECORATIVE SURFACE PAVEMENT (REFER TO LANDSCAPE ARCHITECT)
- PROPOSED DECKING
- PROPOSED BERM
- LOT BOUNDARIES

NOTES:

- REFER TO DWG 1653-01-330 FOR LONG SECTIONS
- REFER TO DWG 1653-01-340 & 341 FOR CROSS SECTIONS
- REFER TO DWG 1653-01-390-392 FOR ROADING DETAILS
- ALL SIGNAGE AND ROAD MARKINGS TO BE IN ACCORDANCE WITH THE NZTA TRAFFIC CONTROL DEVICES MANUAL
- DRIVEWAYS AND DROP KERBS TO BE FORMED TO THE PROPERTY BOUNDARY ONLY



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.

REVISIONS:		BY	DATE
REV	NOTES		
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

TITLE:
PROPOSED ROADING PLAN
SHEET 3 OF 3



DESIGNED: AA	DRAWN: AA	REVISION:
CHECKED: LF	PLOT DATE: 23-07-2025	
SCALE A1: 1:150	SCALE A3: 1:300	
STATUS: FOR CONSTRUCTION		
PROJECT No: 1653-01	DRAWING No: 303	REVISION: FC2









PART
SECTION 2
OKATO
TOWN BELT



LEGEND:

-  PAVEMENT TYPE 1
 PAVEMENT TYPE 2
 TRAFFICABLE FOOTPATH
 HEAVY DUTY VEHICLE CROSSING

1. REFER TO DWG 1653-01-390 TO 392 FOR DETAILS

REVISIONS:

REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:

TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

TITLE:

PROPOSED PAVEMENT PLAN OVERVIEW

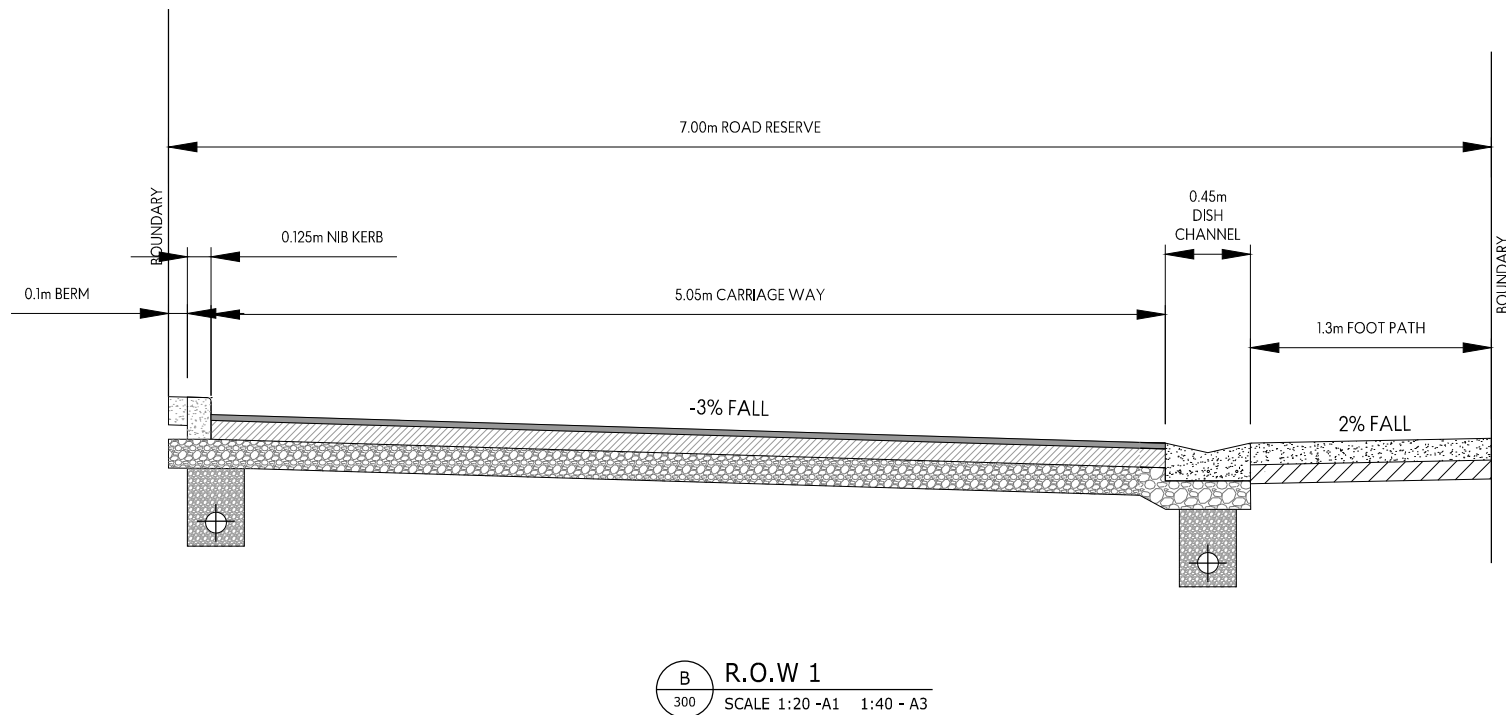
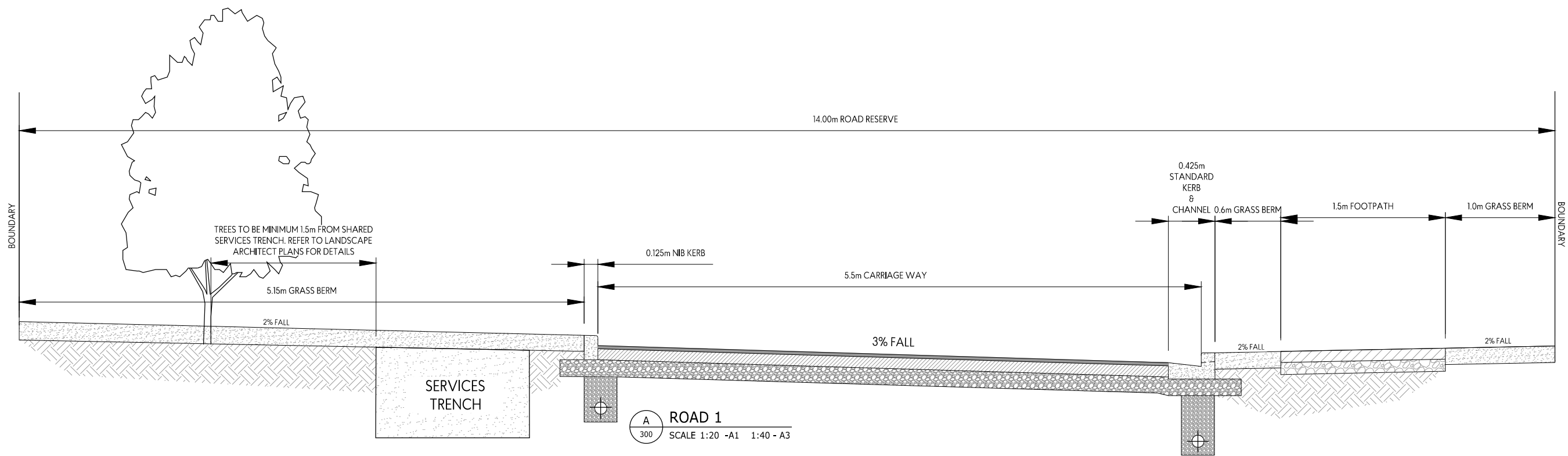


DESIGNED: AA DRAWN: AA
CHECKED: LF PLOT DATE: 23-07-2025
SCALE A1: 1:250 SCALE A3: 1:500
STATUS: FOR CONSTRUCTION

PROJECT No: DRAWING No: REF:

1653-01 320 F

C2



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.

REVISIONS:			
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

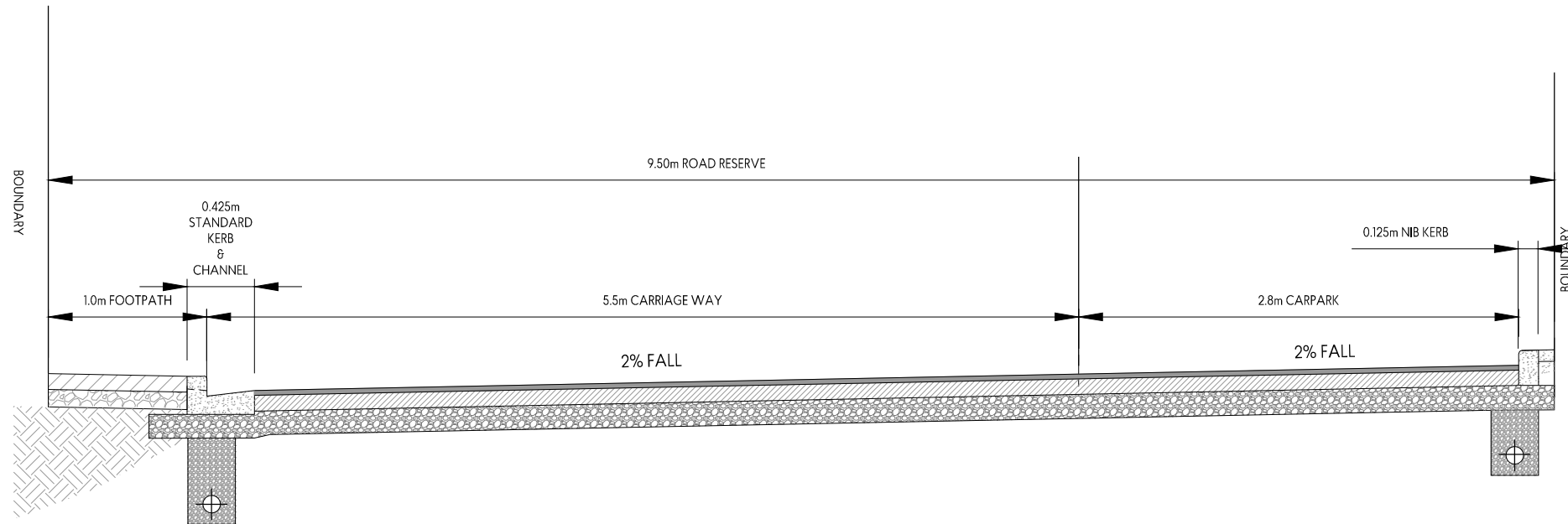
TITLE:
PROPOSED PAVEMENT PLAN
TYPICAL CROSS SECTION

ENVELOPE
W W . E N V E L O P E - E N G . C O . N Z

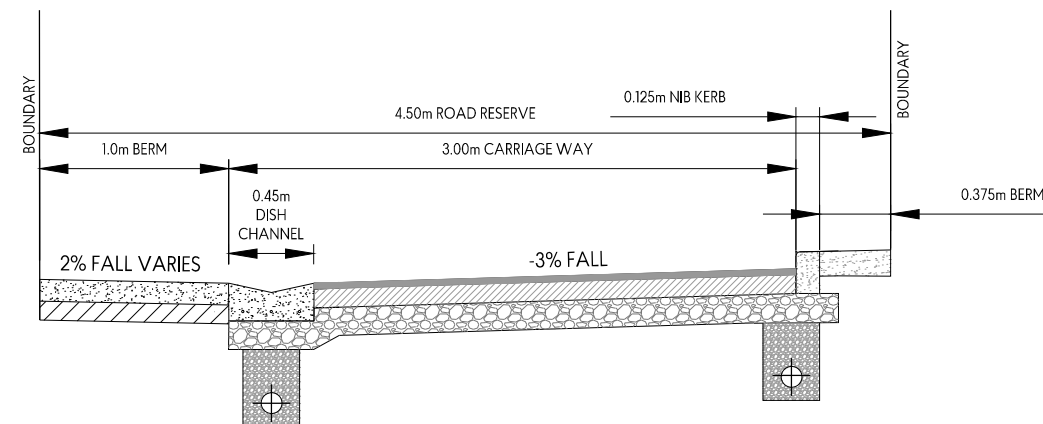
DESIGNED: AA
CHECKED: LF
SCALE A1: 1:20
STATUS: FOR CONSTRUCTION
PROJECT No: 1653-01

DRAWN: AA
PLOT DATE: 23-07-2025
SCALE A3: 1:40
DRAWING No: 340

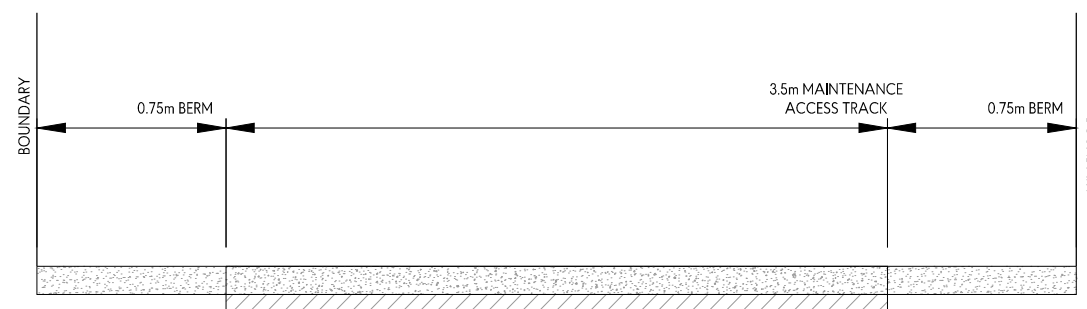
REVISION: FC2



C R.O.W 1
SCALE 1:20 -A1 1:40 - A3



D R.O.W 2
SCALE 1:20 -A1 1:40 - A3



E MAINTENANCE ACCESS TRACK
SCALE 1:20 -A1 1:40 - A3

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.

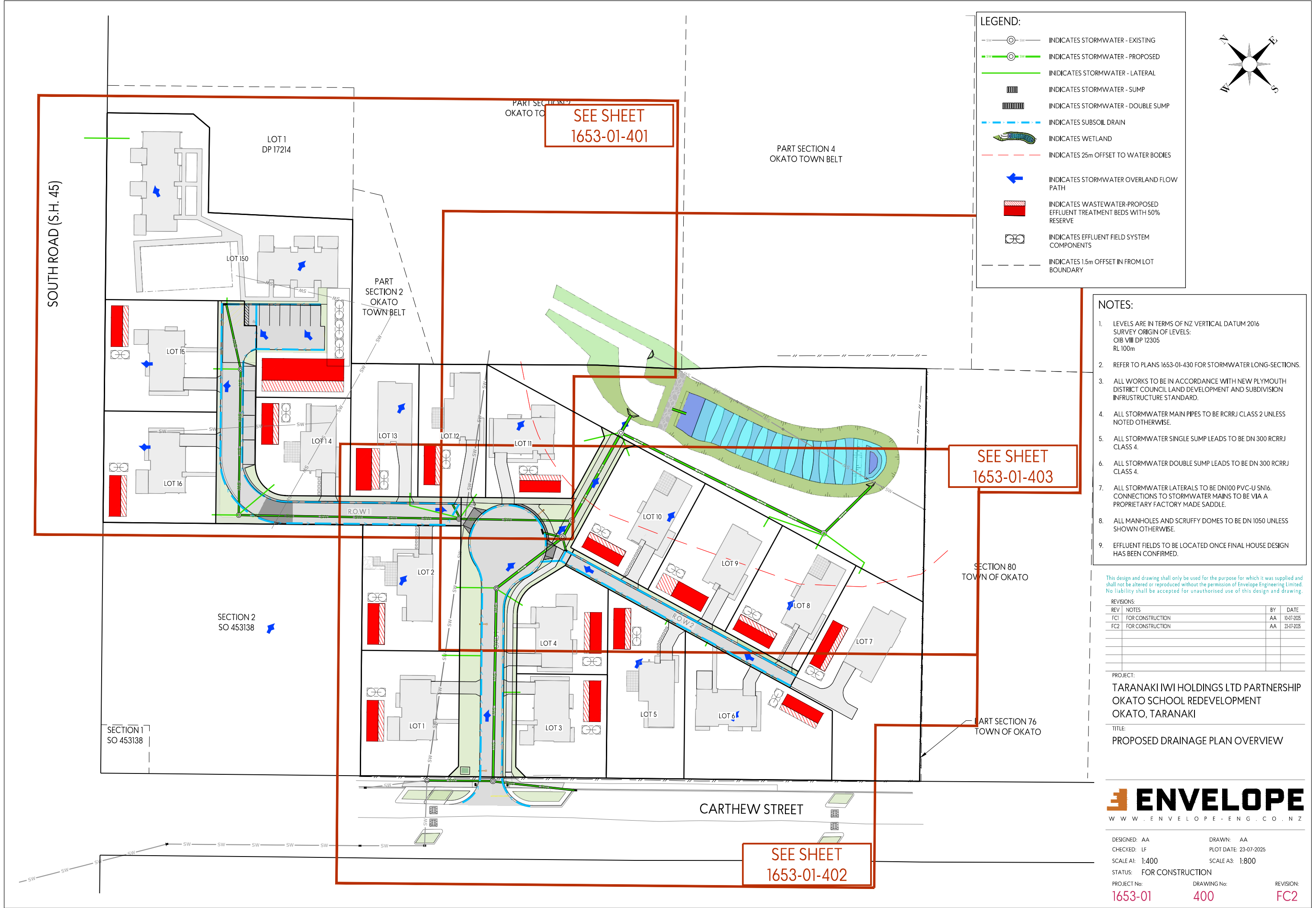
REVISIONS:			
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

TITLE:
PROPOSED PAVEMENT PLAN
TYPICAL CROSS SECTION



DESIGNED: AA	DRAWN: AA
CHECKED: LF	PLOT DATE: 23-07-2025
SCALE A1: 1:20	SCALE A3: 1:40
STATUS: FOR CONSTRUCTION	
PROJECT No: 1653-01	DRAWING No: 341
REVISION: FC2	



LEGEND:

- INDICATES STORMWATER - EXISTING
- INDICATES STORMWATER - PROPOSED
- INDICATES STORMWATER - LATERAL
- ▢ INDICATES STORMWATER - SUMP
- ▨ INDICATES STORMWATER - DOUBLE SUMP
- - - INDICATES SUBSOIL DRAIN
- WETLAND INDICATES WETLAND
- - - INDICATES 25m OFFSET TO WATER BODIES
- INDICATES STORMWATER OVERLAND FLOW PATH
- ▨ INDICATES WASTEWATER-PROPOSED EFFLUENT TREATMENT BEDS WITH 50% RESERVE
- INDICATES EFFLUENT FIELD SYSTEM COMPONENTS
- - - INDICATES 1.5m OFFSET IN FROM LOT BOUNDARY

- NOTES:**
- LEVELS ARE IN TERMS OF NZ VERTICAL DATUM 2016
SURVEY ORIGIN OF LEVELS:
OIB VIII DP 12305
RL 100m
 - REFER TO PLANS 1653-01-430 FOR STORMWATER LONG-SECTIONS.
 - ALL WORKS TO BE IN ACCORDANCE WITH NEW PLYMOUTH DISTRICT COUNCIL LAND DEVELOPMENT AND SUBDIVISION INFRASTRUCTURE STANDARD.
 - ALL STORMWATER MAIN PIPES TO BE RCRRJ CLASS 2 UNLESS NOTED OTHERWISE.
 - ALL STORMWATER SINGLE SUMP LEADS TO BE DN 300 RCRRJ CLASS 4.
 - ALL STORMWATER DOUBLE SUMP LEADS TO BE DN 300 RCRRJ CLASS 4.
 - ALL STORMWATER LATERALS TO BE DN100 PVC-U SNI6. CONNECTIONS TO STORMWATER MAINS TO BE VIA A PROPRIETARY FACTORY MADE SADDLE.
 - ALL MANHOLES AND SCRUFFY DOMES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
 - EFFLUENT FIELDS TO BE LOCATED ONCE FINAL HOUSE DESIGN HAS BEEN CONFIRMED.

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.

REVISIONS:			
REV	NOTES	BY	DATE
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

TITLE:
PROPOSED DRAINAGE PLAN OVERVIEW



DESIGNED: AA	DRAWN: AA	REVISION:
CHECKED: LF	PLOT DATE: 23-07-2025	400
SCALE A1: 1:400	SCALE A3: 1:800	FC2
STATUS: FOR CONSTRUCTION	PROJECT No: 1653-01	
	DRAWING No: 400	

PART SECTION 2
OKATO TOWN BELT



LEGEND:

- INDICATES STORMWATER - EXISTING
- INDICATES STORMWATER - PROPOSED
- INDICATES STORMWATER - LATERAL
- INDICATES STORMWATER - SUMP
- INDICATES STORMWATER - DOUBLE SUMP
- INDICATES SUBSOIL DRAIN
- INDICATES WETLAND
- INDICATES 25m OFFSET TO WATER BODIES
- INDICATES STORMWATER OVERLAND FLOW PATH
- INDICATES WASTEWATER-PROPOSED EFFLUENT TREATMENT BEDS WITH 50% RESERVE
- INDICATES EFFLUENT FIELD SYSTEM COMPONENTS
- INDICATES 1.5m OFFSET IN FROM LOT BOUNDARY

- NOTES:
- LEVELS ARE IN TERMS OF NZ VERTICAL DATUM 2016
SURVEY ORIGIN OF LEVELS:
OIB VII DP 12305
RL 100m
 - REFER TO PLANS 1653-01-430 FOR STORMWATER LONG-SECTIONS.
 - ALL WORKS TO BE IN ACCORDANCE WITH NEW PLYMOUTH DISTRICT COUNCIL LAND DEVELOPMENT AND SUBDIVISION INFRASTRUCTURE STANDARD.
 - ALL STORMWATER MAIN PIPES TO BE RCRRJ CLASS 2 UNLESS NOTED OTHERWISE.
 - ALL STORMWATER SINGLE SUMP LEADS TO BE DN 300 RCRRJ CLASS 4.
 - ALL STORMWATER DOUBLE SUMP LEADS TO BE DN 300 RCRRJ CLASS 4.
 - ALL STORMWATER LATERALS TO BE DN100 PVC-U SNI6. CONNECTIONS TO STORMWATER MAINS TO BE VIA A PROPRIETARY FACTORY MADE SADDLE.
 - ALL MANHOLES AND SCRUFFY DOMES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
 - EFFLUENT FIELDS TO BE LOCATED ONCE FINAL HOUSE DESIGN HAS BEEN CONFIRMED.

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.

REVISIONS:		BY	DATE
REV	NOTES		
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

TITLE:
PROPOSED DRAINAGE PLAN
SHEET 1 OF 3



DESIGNED: AA	DRAWN: AA	REVISION:
CHECKED: LF	PLOT DATE: 23-07-2025	
SCALE A1: 1:200	SCALE A3: 1:400	
STATUS: FOR CONSTRUCTION		
PROJECT No: 1653-01	DRAWING No: 401	REVISION: FC2

CONNECTION TO KERB

LOT 1
DP 17214

LOT 150

DOUBLE SUMP

LOT 15

SWMH I-6

LOT 16

EXISTING SERVICE TO BE
CONFIRMED ONSITE BY
CONTRACTOR PRIOR TO
LAYING PIPES

SWMH I-5

DN 300 at 0.39%

LOT 14

LOT 13

EXISTING STORMWATER
PIPE TO BE REMOVED
AND REPLACED

LOT 12

LOT 11

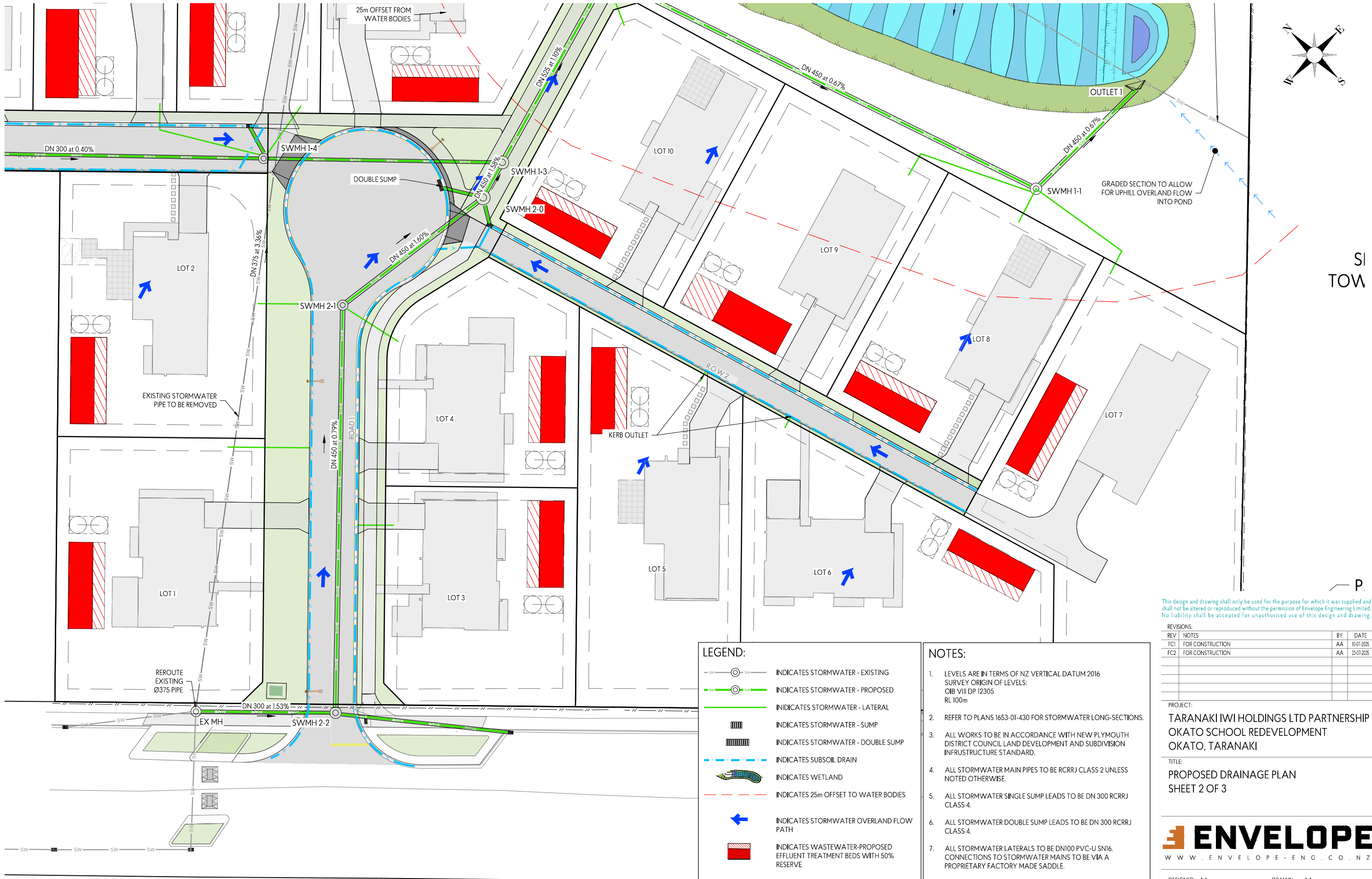
25m OFFSET FROM
WATER BODIES

SWMH I-4

DOUBLE SUMP

DN 300 at 0.40%

DN 480 at 1.58%



LEGEND:

- SW — ○ — SW — INDICATES STORMWATER - EXISTING
- SW — ○ — SW — INDICATES STORMWATER - PROPOSED
- INDICATES STORMWATER - LATERAL
- ▨ INDICATES STORMWATER - SUMP
- ▨▨ INDICATES STORMWATER - DOUBLE SUMP
- - - - - INDICATES SUBSOIL DRAIN
- WETLAND INDICATES WETLAND
- - - - - INDICATES 25m OFFSET TO WATER BODIES
- ← INDICATES STORMWATER OVERLAND FLOW PATH
- ▨▨▨ INDICATES WASTEWATER-PROPOSED EFFLUENT TREATMENT BEDS WITH 50% RESERVE
- INDICATES EFFLUENT FIELD SYSTEM COMPONENTS
- - - - - INDICATES 1.5m OFFSET IN FROM LOT BOUNDARY

- NOTES:**
- LEVELS ARE IN TERMS OF NZ VERTICAL DATUM 2016 SURVEY ORIGIN OF LEVELS: CIB VIII DP 12305 RL 100m
 - REFER TO PLANS 1653-01-430 FOR STORMWATER LONG-SECTIONS.
 - ALL WORKS TO BE IN ACCORDANCE WITH NEW PLYMOUTH DISTRICT COUNCIL LAND DEVELOPMENT AND SUBDIVISION INFRASTRUCTURE STANDARD.
 - ALL STORMWATER MAIN PIPES TO BE RCRRJ CLASS 2 UNLESS NOTED OTHERWISE.
 - ALL STORMWATER SINGLE SUMP LEADS TO BE DN 300 RCRRJ CLASS 4.
 - ALL STORMWATER DOUBLE SUMP LEADS TO BE DN 300 RCRRJ CLASS 4.
 - ALL STORMWATER LATERALS TO BE DN100 PVC-U SNI6. CONNECTIONS TO STORMWATER MAINS TO BE VIA A PROPRIETARY FACTORY MADE SADDLE.
 - ALL MANHOLES AND SCRUFFY DOMES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
 - EFFLUENT FIELDS TO BE LOCATED ONCE FINAL HOUSE DESIGN HAS BEEN CONFIRMED.

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.

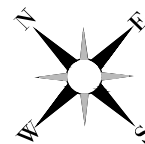
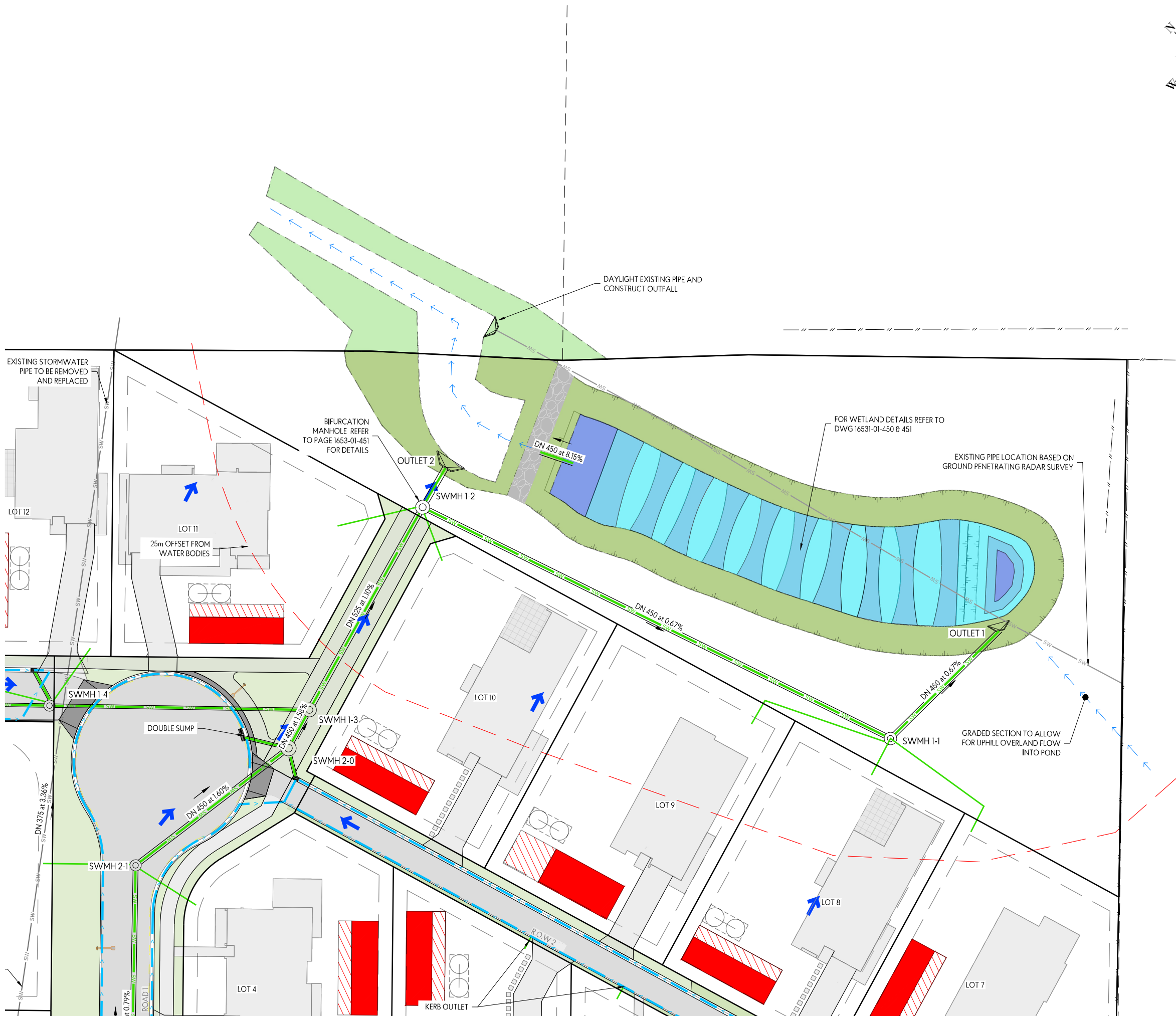
REVISIONS:		BY	DATE
REV	NOTES		
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

TITLE:
PROPOSED DRAINAGE PLAN
SHEET 2 OF 3



DESIGNED: AA	DRAWN: AA	REVISION:
CHECKED: LF	PLOT DATE: 23-07-2025	
SCALE A1: 1:200	SCALE A3: 1:400	
STATUS: FOR CONSTRUCTION		
PROJECT No: 1653-01	DRAWING No: 402	REVISION: FC2



LEGEND:

- INDICATES STORMWATER - EXISTING
- INDICATES STORMWATER - PROPOSED
- INDICATES STORMWATER - LATERAL
- INDICATES STORMWATER - SUMP
- INDICATES STORMWATER - DOUBLE SUMP
- INDICATES SUBSOIL DRAIN
- INDICATES WETLAND
- INDICATES 25m OFFSET TO WATER BODIES
- INDICATES STORMWATER OVERLAND FLOW PATH
- INDICATES WASTEWATER-PROPOSED EFFLUENT TREATMENT BEDS WITH 50% RESERVE
- INDICATES EFFLUENT FIELD SYSTEM COMPONENTS
- INDICATES 1.5m OFFSET IN FROM LOT BOUNDARY

- NOTES:**
- LEVELS ARE IN TERMS OF NZ VERTICAL DATUM 2016 SURVEY ORIGIN OF LEVELS: OIB VIII DP 12305 RL 100m
 - REFER TO PLANS 1653-01-430 FOR STORMWATER LONG-SECTIONS.
 - ALL WORKS TO BE IN ACCORDANCE WITH NEW PLYMOUTH DISTRICT COUNCIL LAND DEVELOPMENT AND SUBDIVISION INFRASTRUCTURE STANDARD.
 - ALL STORMWATER MAIN PIPES TO BE RCRRJ CLASS 2 UNLESS NOTED OTHERWISE.
 - ALL STORMWATER SINGLE SUMP LEADS TO BE DN 300 RCRRJ CLASS 4.
 - ALL STORMWATER DOUBLE SUMP LEADS TO BE DN 300 RCRRJ CLASS 4.
 - ALL STORMWATER LATERALS TO BE DN100 PVC-U SN16. CONNECTIONS TO STORMWATER MAINS TO BE VIA A PROPRIETARY FACTORY MADE SADDLE.
 - ALL MANHOLES AND SCRUFFY DOMES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
 - EFFLUENT FIELDS TO BE LOCATED ONCE FINAL HOUSE DESIGN HAS BEEN CONFIRMED.

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.

REVISIONS:		BY	DATE
REV	NOTES		
FC1	FOR CONSTRUCTION	AA	10-07-2025
FC2	FOR CONSTRUCTION	AA	23-07-2025

PROJECT:
TARANAKI IWI HOLDINGS LTD PARTNERSHIP
OKATO SCHOOL REDEVELOPMENT
OKATO, TARANAKI

TITLE:
PROPOSED DRAINAGE PLAN
SHEET 3 OF 3



DESIGNED: AA	DRAWN: AA	
CHECKED: LF	PLOT DATE: 23-07-2025	
SCALE A1: 1:200	SCALE A3: 1:400	
STATUS: FOR CONSTRUCTION		
PROJECT No: 1653-01	DRAWING No: 403	REVISION: FC2

