

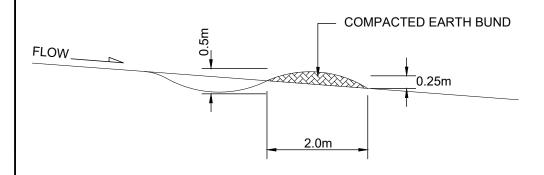


LUC60337962 & SUB60336990

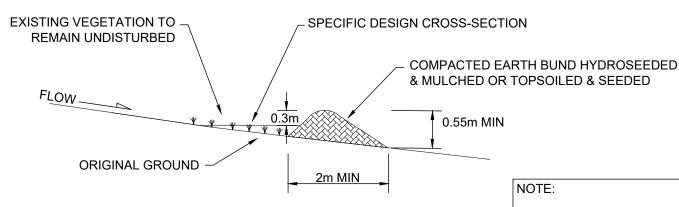
Approved Resource Consent Plan

10/09/2019

CONTOUR DRAIN SPACING									
SLOPE OF SITE (%)	SPACING (m) OF CONTOUR DRAINS								
LESS THAN 5%	50								
5 - 10%	40								
10 - 15%	30								
15 - 30%	20								



CONTOUR DRAIN CROSS-SECTION



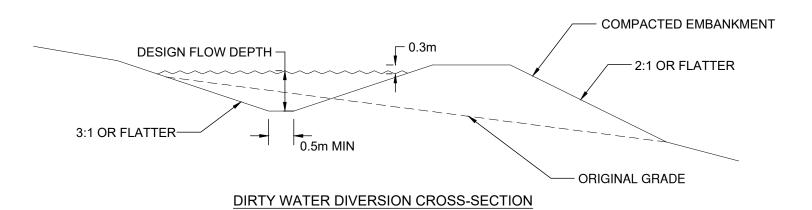
CLEAN WATER DIVERSION CROSS-SECTION

- THE DIVERSION CHANNELS SHOULD BE PARABOLIC OR TRAPEZOIDAL IN SHAPE
- ENSURE INTERNAL SIDES OF THE BUND ARE NO STEEPER THAN 3:1, AND EXTERNAL SIDES NO STEEPER THAN 2:1, AS OUTLINED BELOW

DIRTY WATER DIVERSION

FOR CONSTRUCTION AND OPERATION OF DIRTY WATER DIVERSION CHANNELS AND BUNDS:

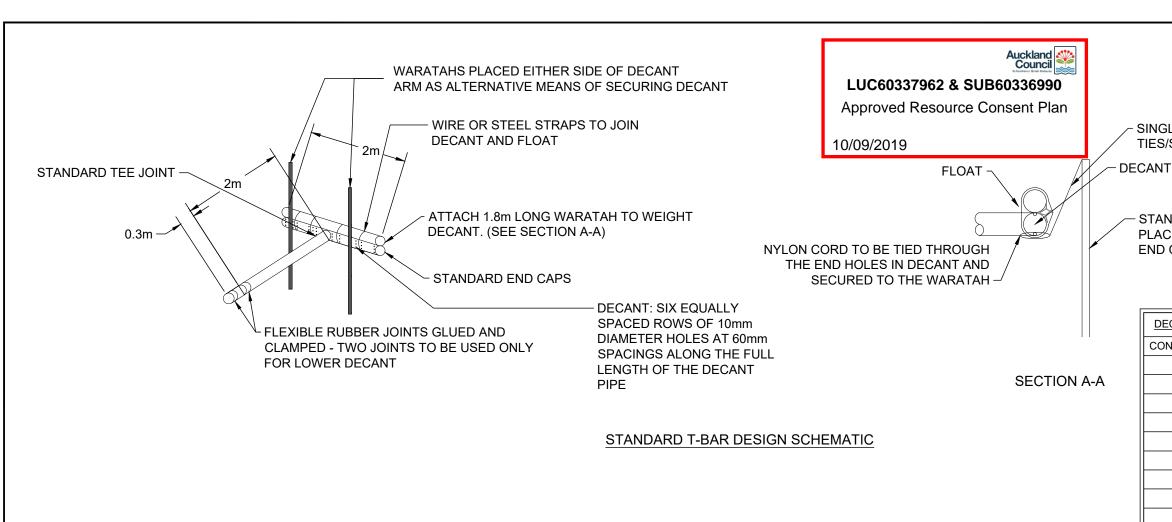
- PLAN AND CONSTRUCT ALL DIRTY WATER DIVERSION WORKS AS PART OF THE INITIAL SITE ESTABLISHMENT/ DEVELOPMENT ACTIVITIES
- DEFINE THE ROUTE AND SURVEY IT TO ACHIEVE THE CORRECT GRADIENT
- CONSTRUCT DRAINS WITH A UNIFORM GRADE ALONG THE INVERT, AS SUDDEN DECREASES MAY CAUSE SEDIMENT TO ACCUMULATE CAUSING THE BANK TO OVERTOP
- ENSURE THE BUNDS ASSOCIATED WITH THE DIVERSIONS ARE WELL COMPACTED AND STABILISED. IN SOME INSTANCES, THIS MAY REQUIRE SPECIFIC GEOTECHNICAL DESIGN TO ENSURE THE STABILITY AND INTEGRITY OF THE STRUCTURE
- MONITOR DIVERSIONS FOR EROSION. SUBJECT TO THE SOILS ON SITE IT IS
 LIKELY THAT EROSION CONTROL WILL BE NEEDED WHERE THE GRADIENTS ARE
 GREATER THAN 2% OR WHERE THE DESIGN VELOCITIES EXCEED 1m/SEC
- ENSURE THE FINISHED CROSS-SECTION MEETS ALL DESIGN REQUIREMENTS
- PROVIDE AN ADEQUATE OUTLET FOR EACH DIVERSION (i.e DIRTY WATER TO A SEDIMENT CONTROL DEVICE).

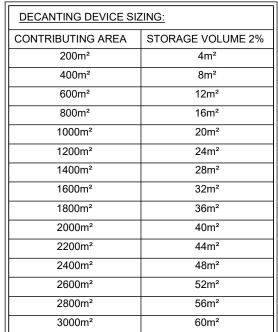


NOTE: BASED ON 0.5m WIDE BASE WITH 1:3 SIDE SLOPES

REFER TO AUCKLAND COUNCIL GD-05 FOR FURTHER DETAILS

REV.	DESCRIPTION	CHECK APP'D	DATE	SCALE 1:75 AT	A3		CLIENT	SITE ADDRESS	DRAWING NUMBER			
					NAM	DATE	BUILD RICH LTD	EAST COAST ROAD	40.45 DO EM	200		
				DESIGN	KC	07.19		SILVERDALE	1345-RC-EW202		ASPIRE	
				DRAWN	KC	07.19						
				DRAWING CHECK	RW	07.19			DATE	REVISION	CONSULTING ENGINEERS	
				DESIGN CHECK	RW	07.19	Conditions of Use; These drawings shall only be used for the purpose for which they were	hese drawings shall only be used for the purpose for which they were	DRAWING TITLE EROSION & SEDIMENT CONTROL DETAILS	JULY 2019	_	Ph: 09 426 6552
				APPROVED	PF	07.19	supplied. Do not measure off this drawing. If doubt please contact Engineer.	ENGOION & SEDIMENT CONTINUE DETAILS			Web: www.aspeng.co.nz	





SINGLE WARATAH FIXED FIRMLY BEHIND CABLE

TIES/STRAPS REQUIRED TO WEIGHT DECANT

STANDARD WARATAH

END OF THE DECANT

PLACEMENT AT EITHER

SITE ADDRESS

DRAWING TITLE

SPILLWAY STABILISED WITH GEOTEXTILE 150mmØ RISER LIVE STORAGE VOLUME: 70% OF TOTAL TREATMENT VOLUME REDUCER REQUIRED IF USING A 100mmØ DECANT 150mmØ uPVC PIPE THROUGH BUND IF USING A 100mmØ DECANT

DECANTING EARTH BUND CROSS-SECTION

REFER TO AUCKLAND COUNCIL GD-05 FOR FURTHER DETAILS

REV.	DESCRIPTION	CHECK	APP'D	DATE	SCALE 1:75 AT A3			CI
						NAME	DATE	
					DESIGN	KC	07.19	
					DRAWN	KC	07.19	
					DRAWING CHECK	RW	07.19	
					DESIGN CHECK	RW	07.19	Th:
					APPROVED.	PF	07 19	sı

BUILD RICH LTD

Conditions of Use:
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EAST COAST ROAD SILVERDALE

SILVERDALE

STITLE

EROSION & SEDIMENT CONTROL DETAILS

DRAWING NUMBER 1345-RC-EW202

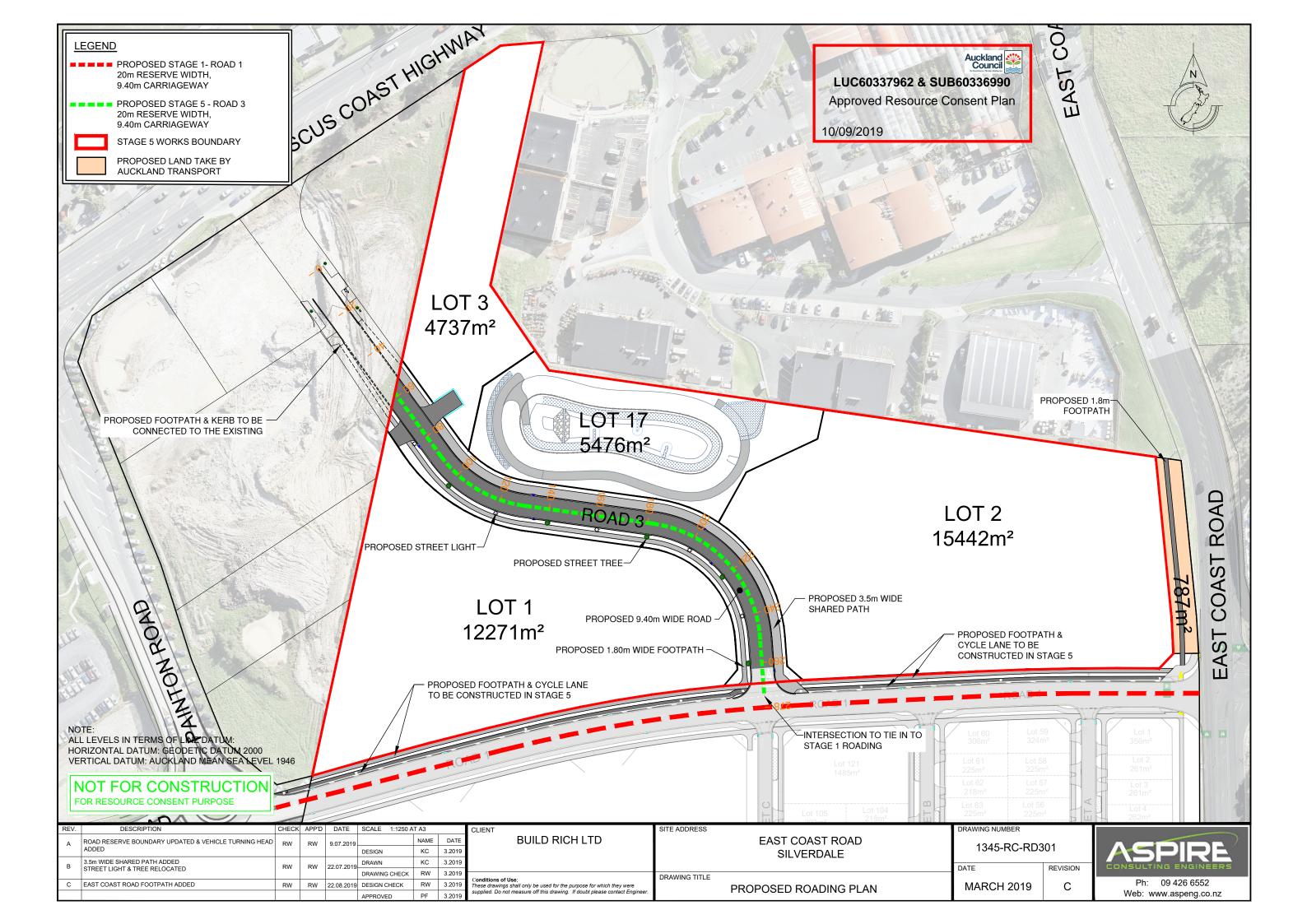
DATE REVISION

JULY 2019 -

Ph: 09 426 6552
Web: www.aspeng.co.nz

DEB SIZING:

- DEB SIZING IS BASED ON CONTRIBUTING CATCHMENT AREA
- ON EARTHWORK SITES WITH SLOPES GREATER THAN 18% OR GREATER THAN 200m IN LENGTH, CONSTRUCT DEB WITH A MINIMUM VOLUME OF 2% OF THE CONTRIBUTING CATCHMENT AREA (20m³ FOR EACH 2,000m²)
- THE SLOPE ANGLE IS DETERMINED BY THE SLOPE IMMEDIATELY ABOVE THE DEB, OR BY THE AVERAGE SLOPE OVER THE CONTRIBUTING CATCHMENT, WHICHEVER IS GREATER. THE SLOPE ANGLE SHOULD ALSO BE THE GREATER OF THE PRE- OR POST- CONSTRUCTION SLOPE.
- THE ABOVE CALCULATION DEFINES THE TOTAL STORAGE VOLUME WHICH IS MEASURED FROM THE BASE OF THE DEB TO THE TOP OF THE PRIMARY SPILLWAY.

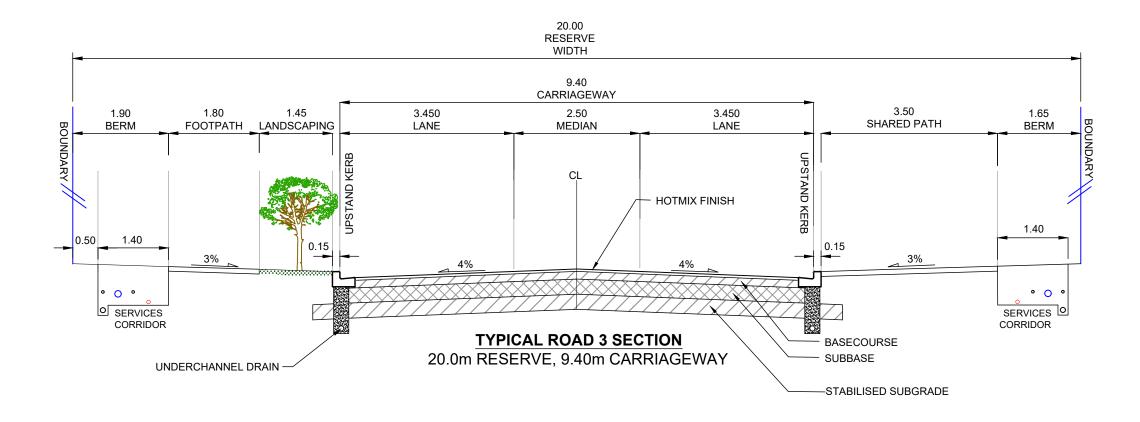




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NOT FOR CONSTRUCTION FOR RESOURCE CONSENT PURPOSE

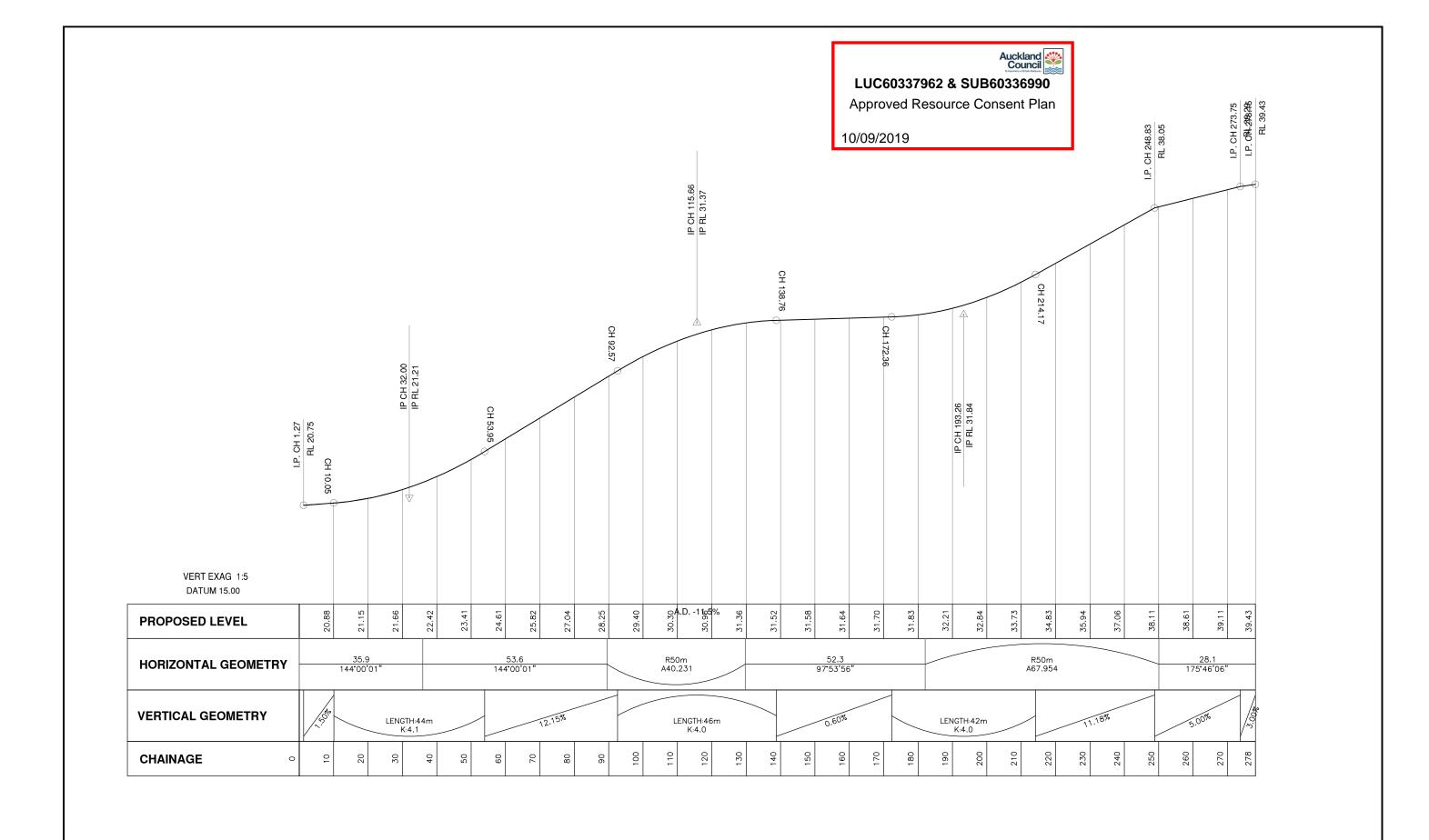
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Α	3.5m SHARED PATH ADDED	RW	RW	22.07.2019		NAME	DATE	BUILD RICH LTD	EAST COAST ROAD
					DESIGN	KC	3.2019		SILVERDALE
					DRAWN	KC	3.2019		0.272.137.122
					DRAWING CHECK	RW	3.2019	G . NV	DRAWING TITLE
					DESIGN CHECK	RW	3.2019	These drawings shall only be used for the purpose for which they were	TYPICAL ROAD CROSS SECTION
					APPROVED	PF	3.2019	supplied. Do not measure off this drawing. If doubt please contact Engineer.	THI ICAL ROAD GROSS SECTION



1345-RC-RD302

MARCH 2019

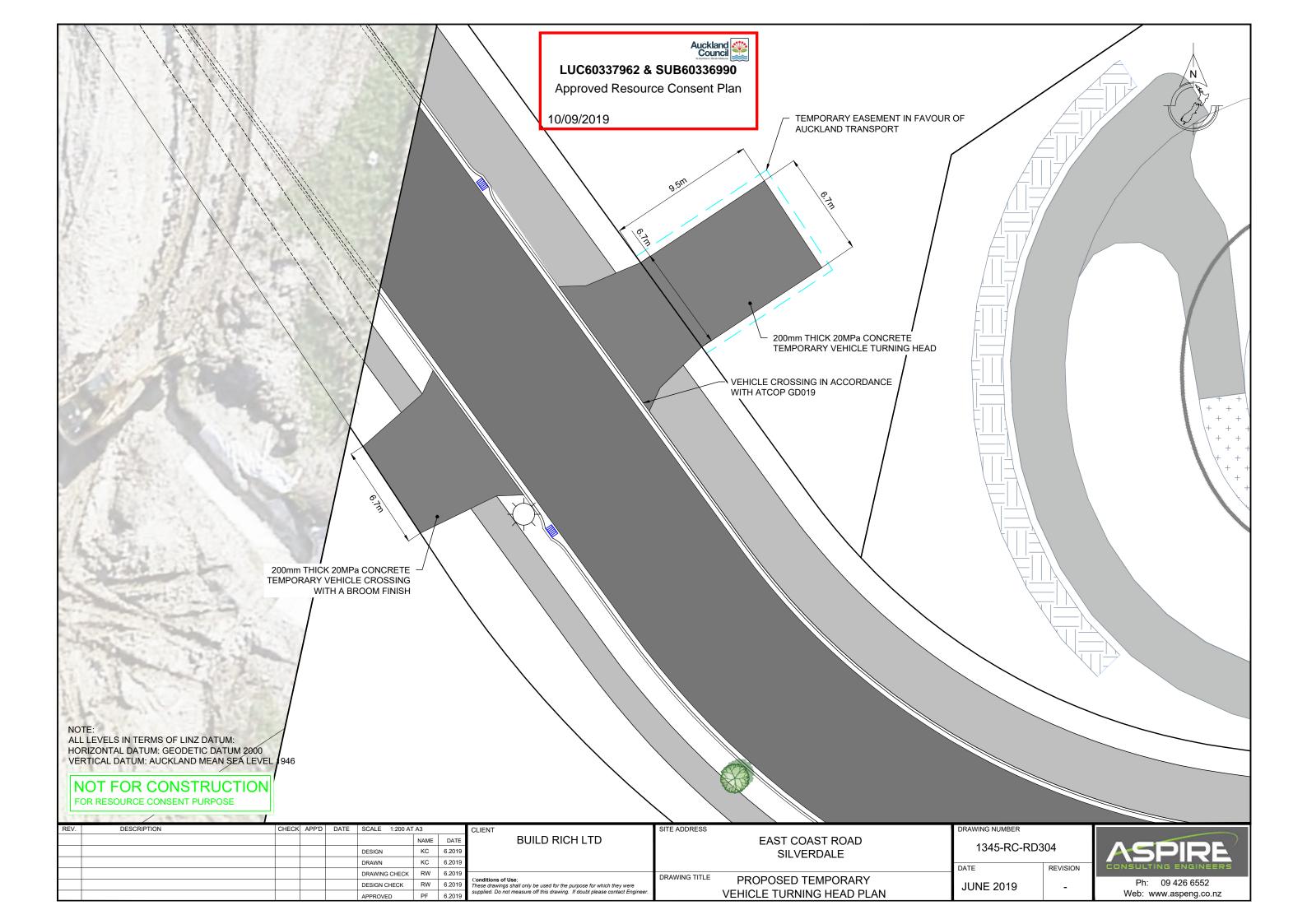
DATE

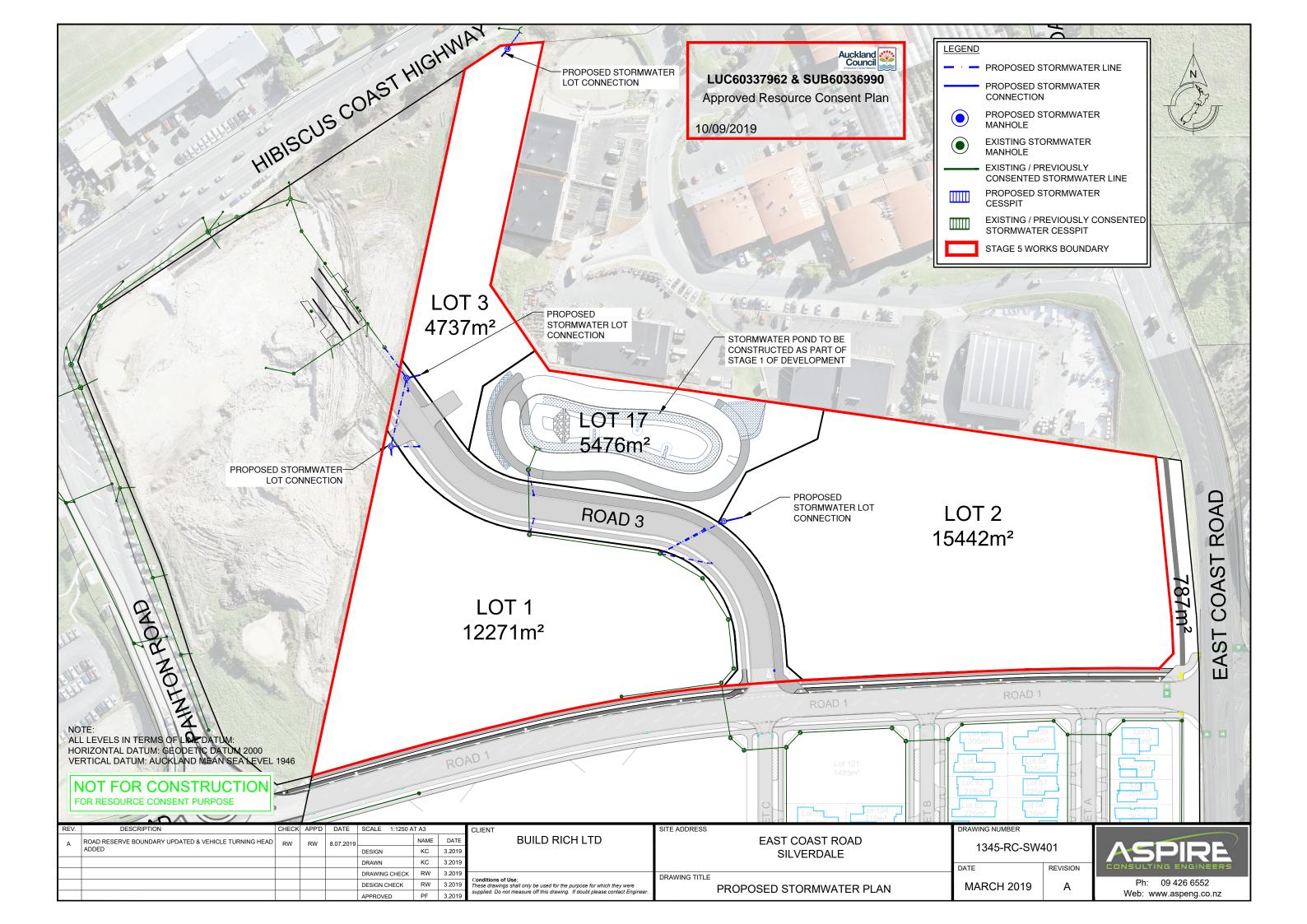


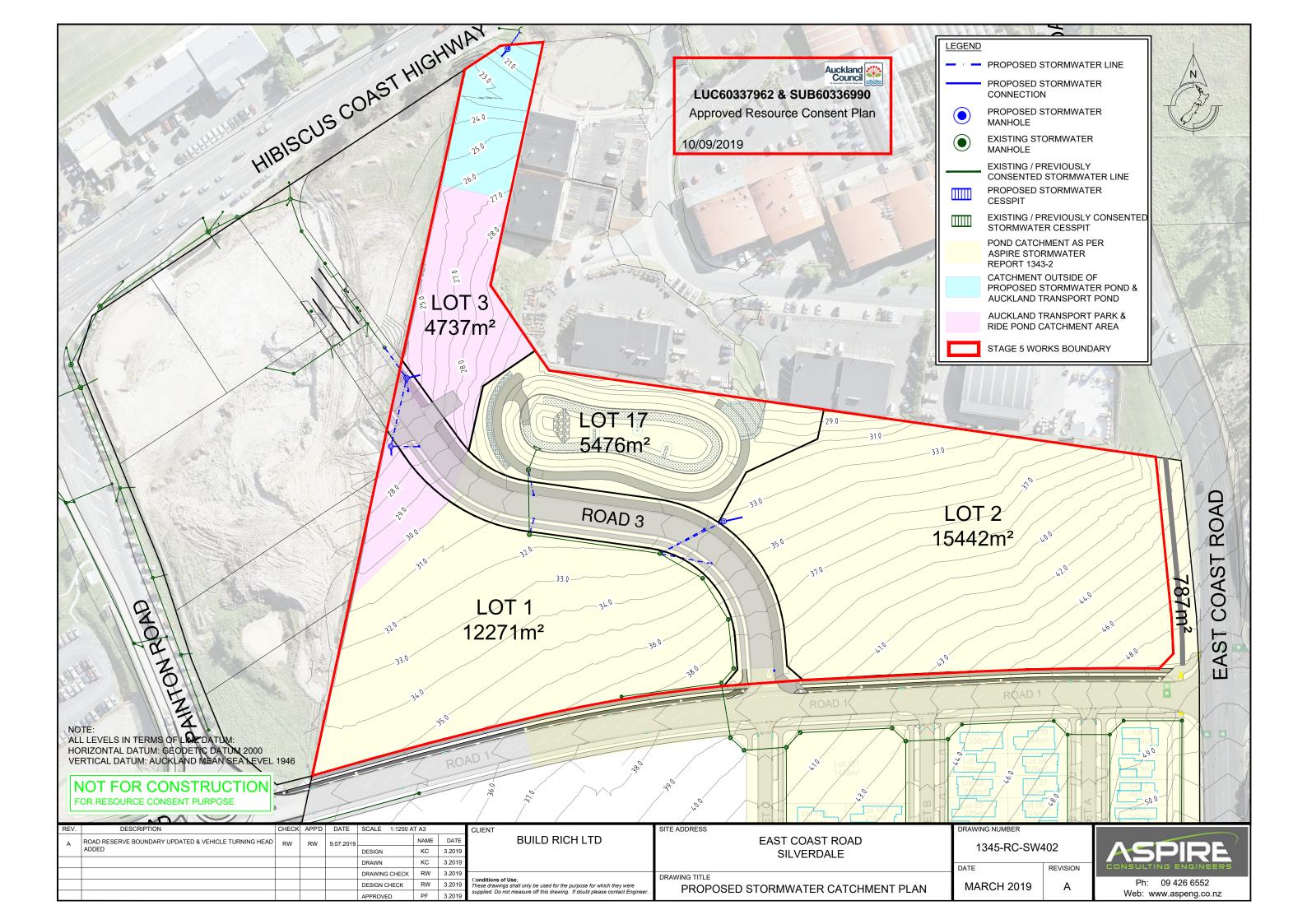
NOT FOR CONSTRUCTION FOR RESOURCE CONSENT PURPOSE

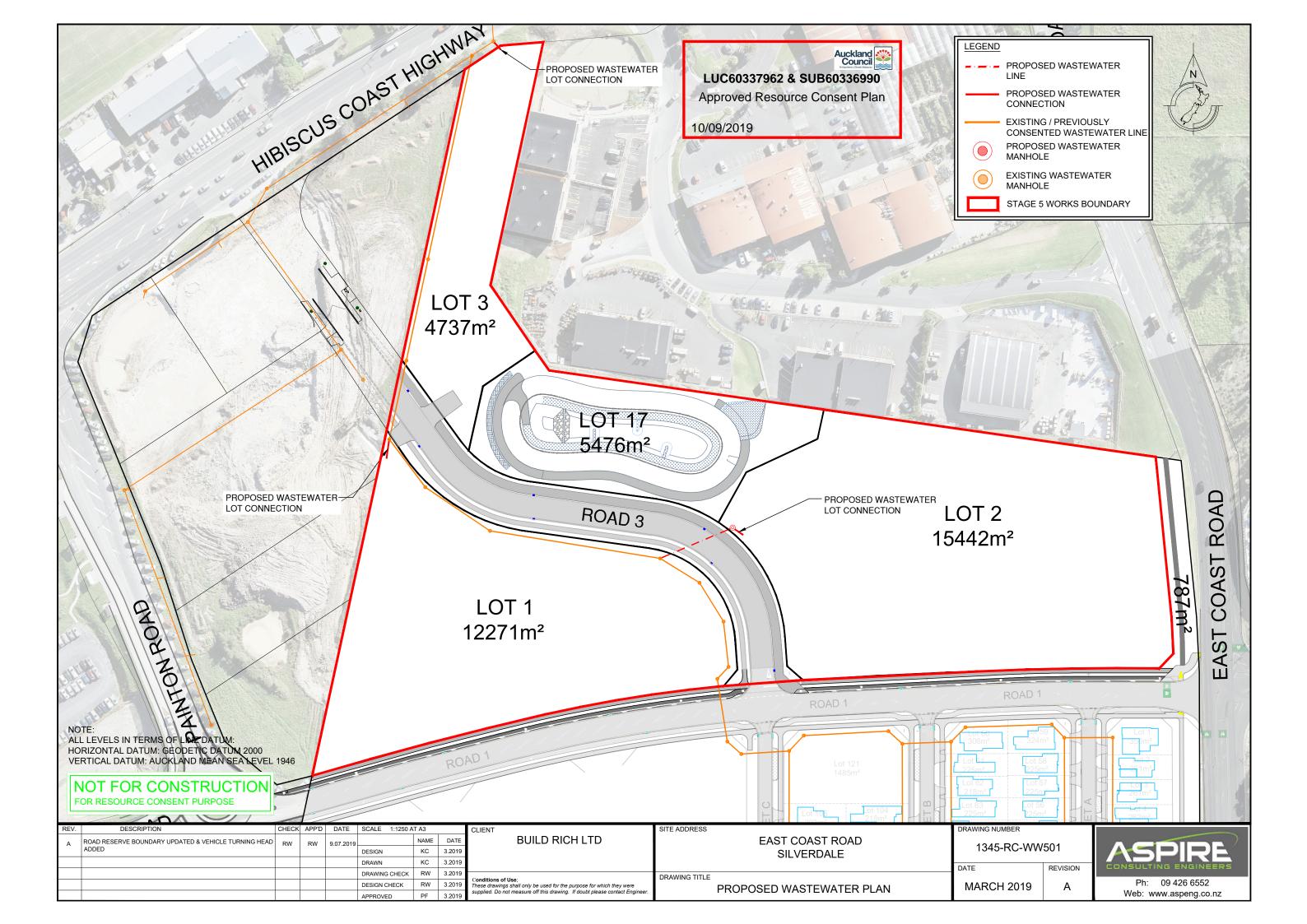
REV.	DESCRIPTION	CHECK	APP'D	DATE	SCALE 1:1000H & 1:200V AT A3		AT A3	CLIENT	SITE ADDRESS	DRAWING NUMBER	
						NAME	DATE	BUILD RICH LTD	EAST COAST ROAD	4045 DO DDG	
					DESIGN	RW	03.19		SILVERDALE	1345-RC-RD3	303
					DRAWN	кс	03.19		OIE VEI (B) (EE	h	T ==: #6:61:
					DRAWING CHECK	RW	03.19			DATE	REVISION
				L '	DIAWING CITEOR	<u> </u>	00.10	Conditions of Use:	DRAWING TITLE	4	1
				1	DESIGN CHECK	RW		These drawings shall only be used for the purpose for which they were	PROPOSED ROAD LONG SECTION	MAR 2019	-
					APPROVED	PF	03.19	supplied. Do not measure off this drawing. If doubt please contact Engineer.	THOI GOLD ROAD LONG GLOTION		

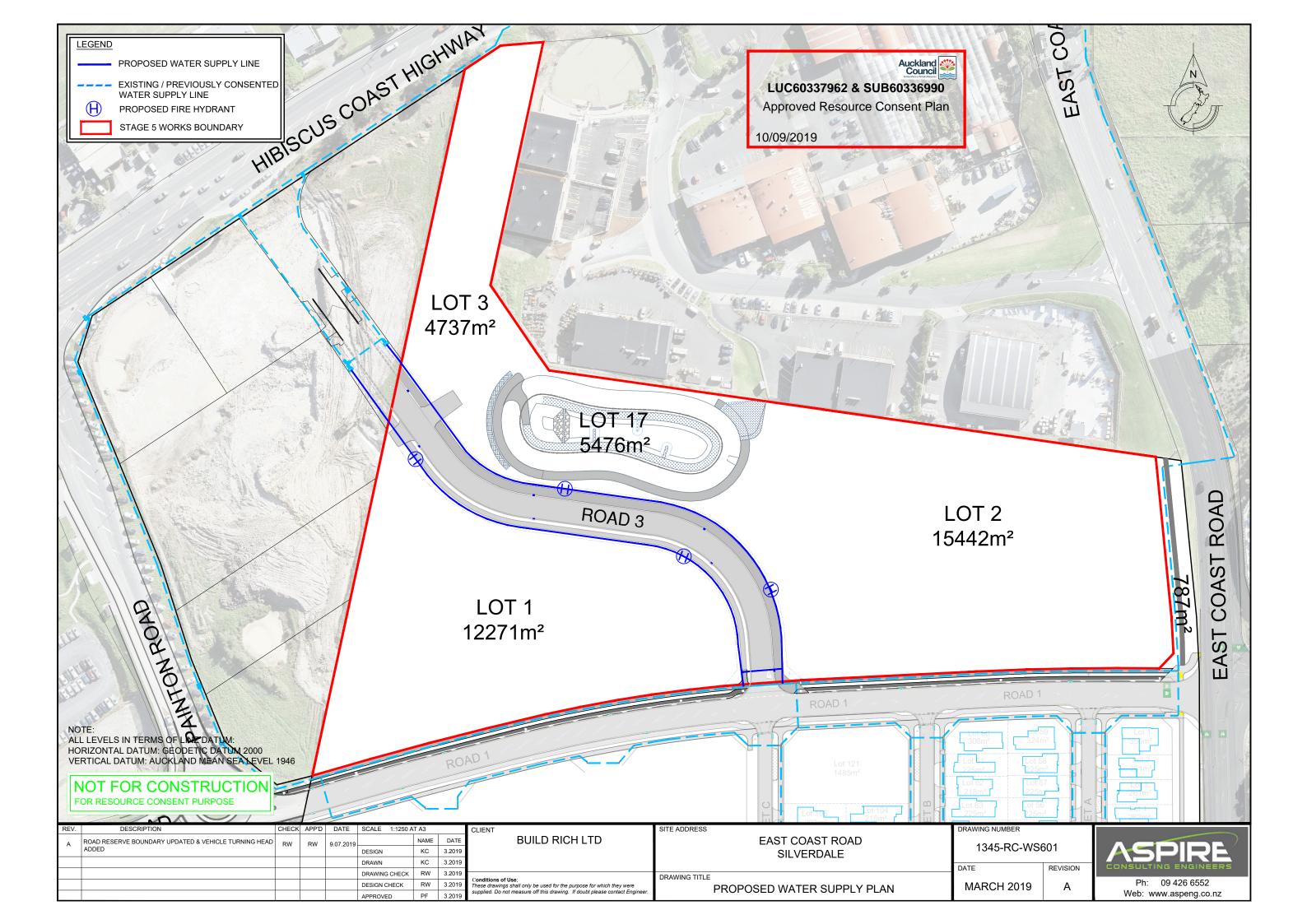


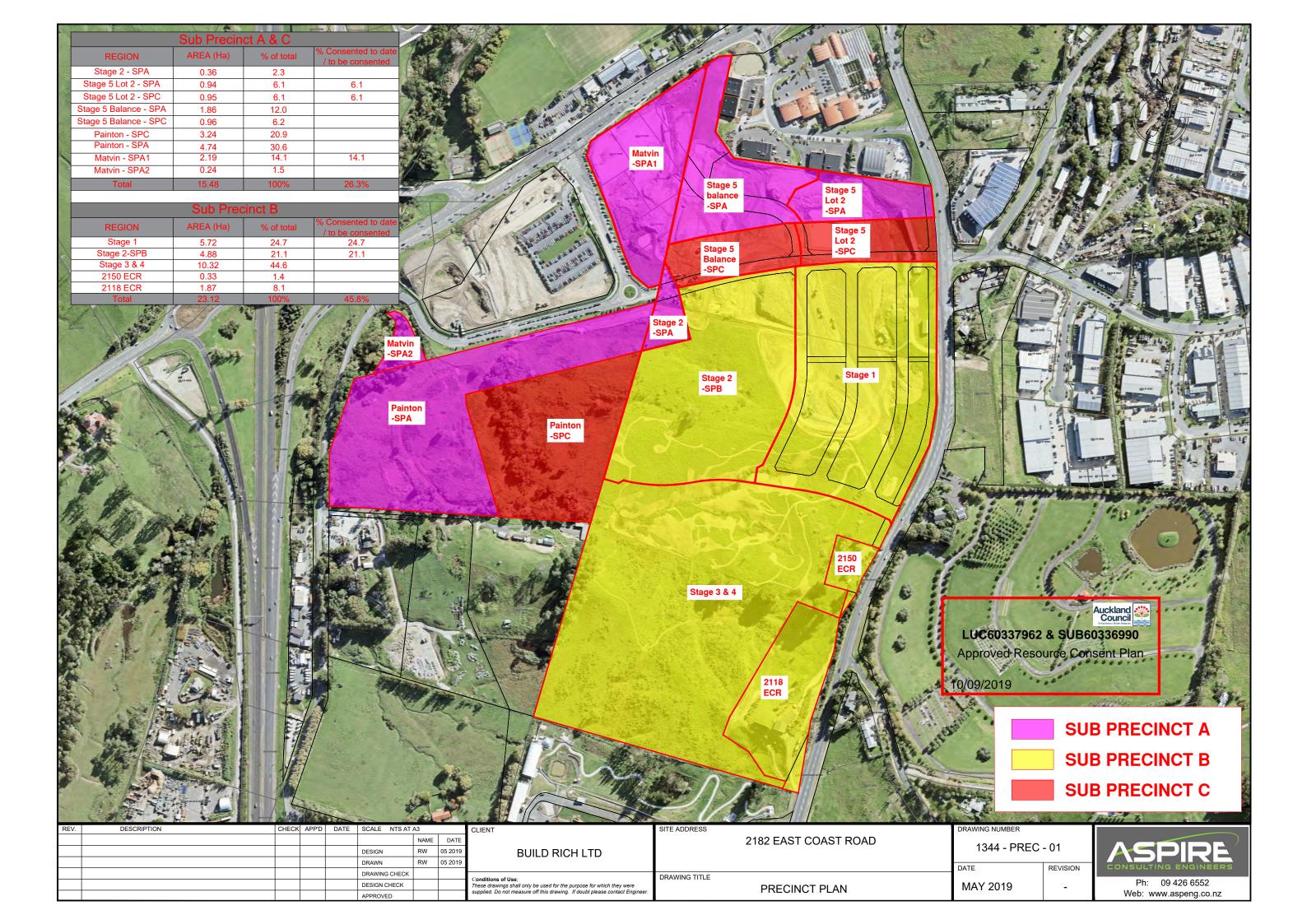


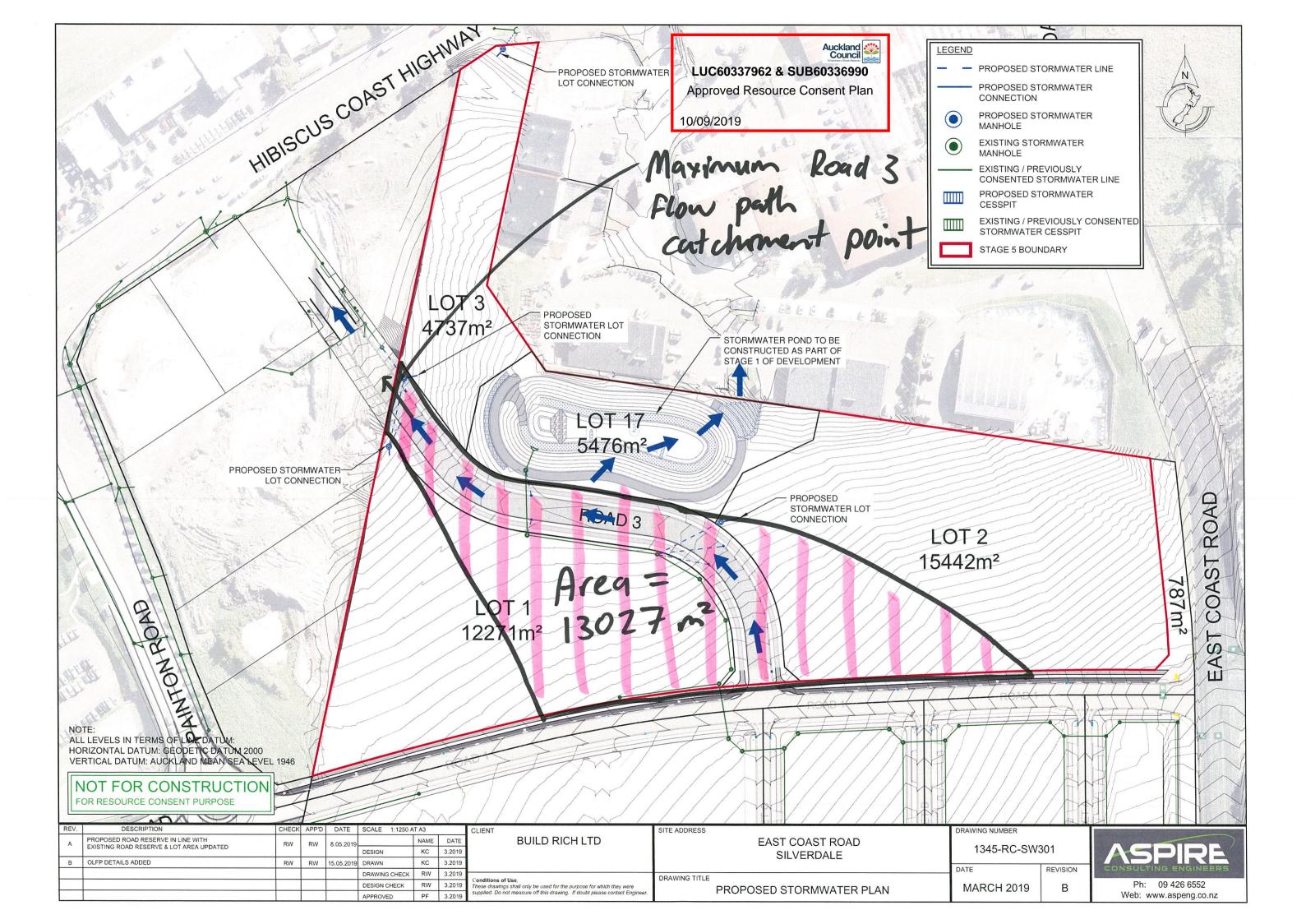


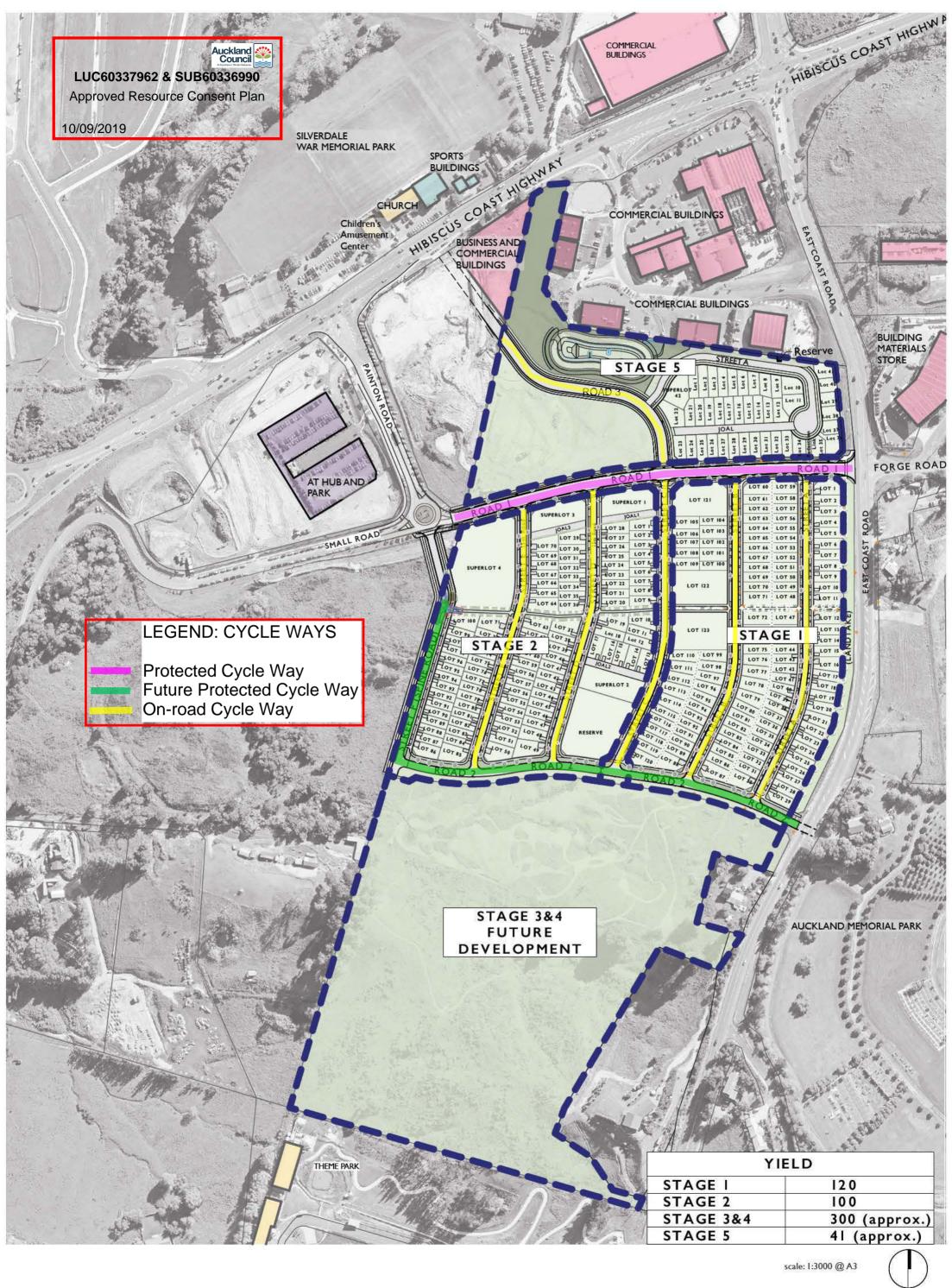


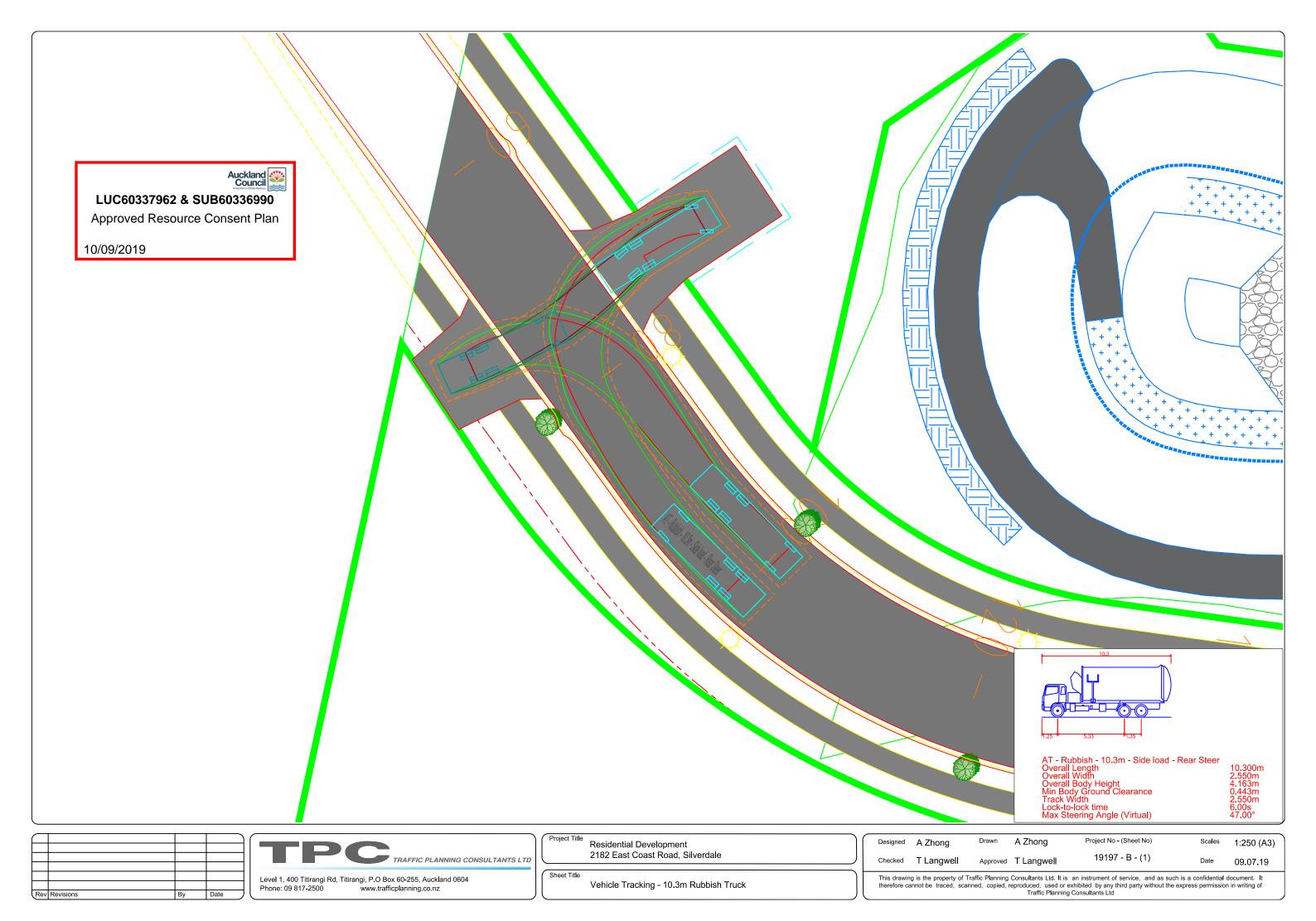


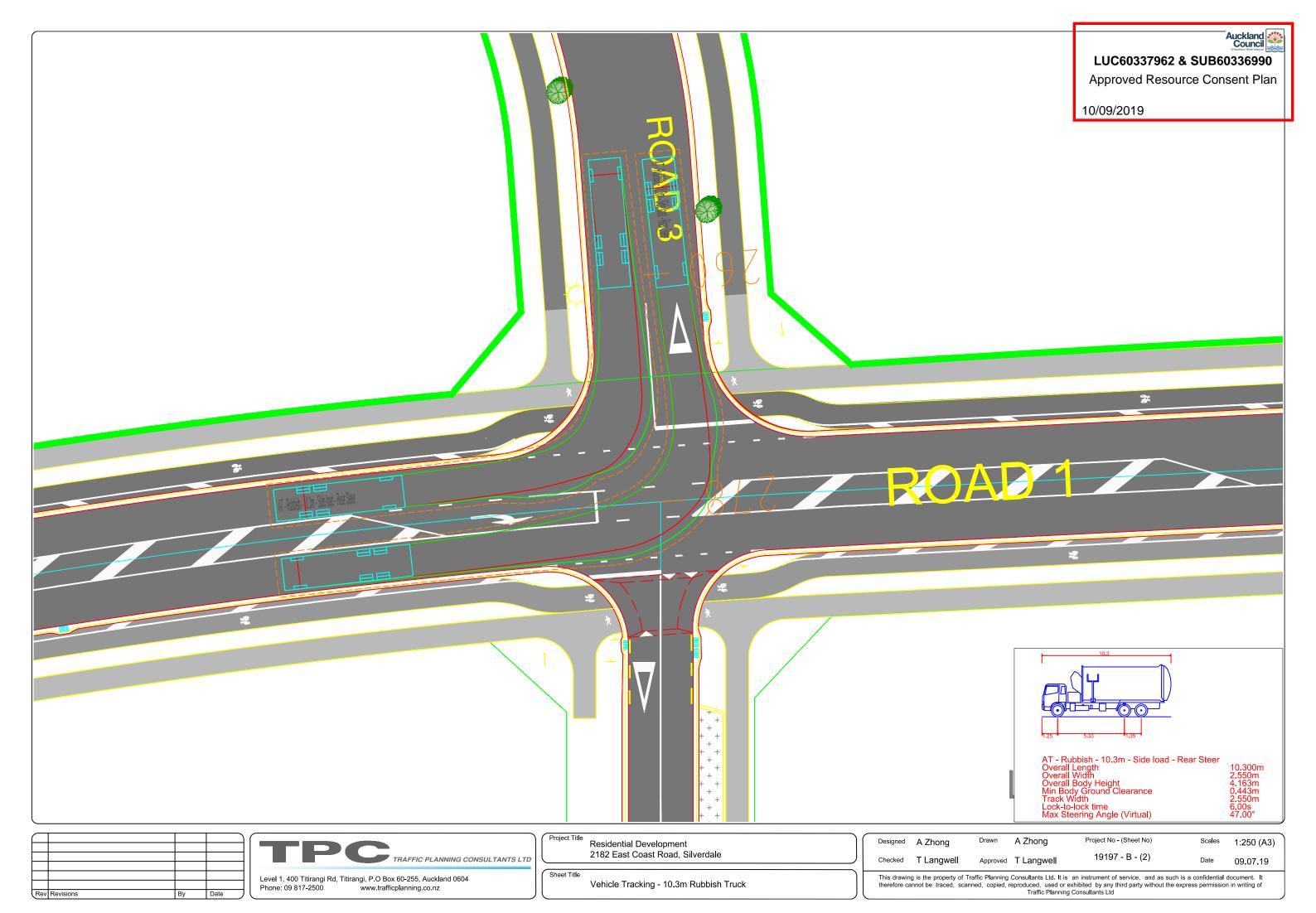


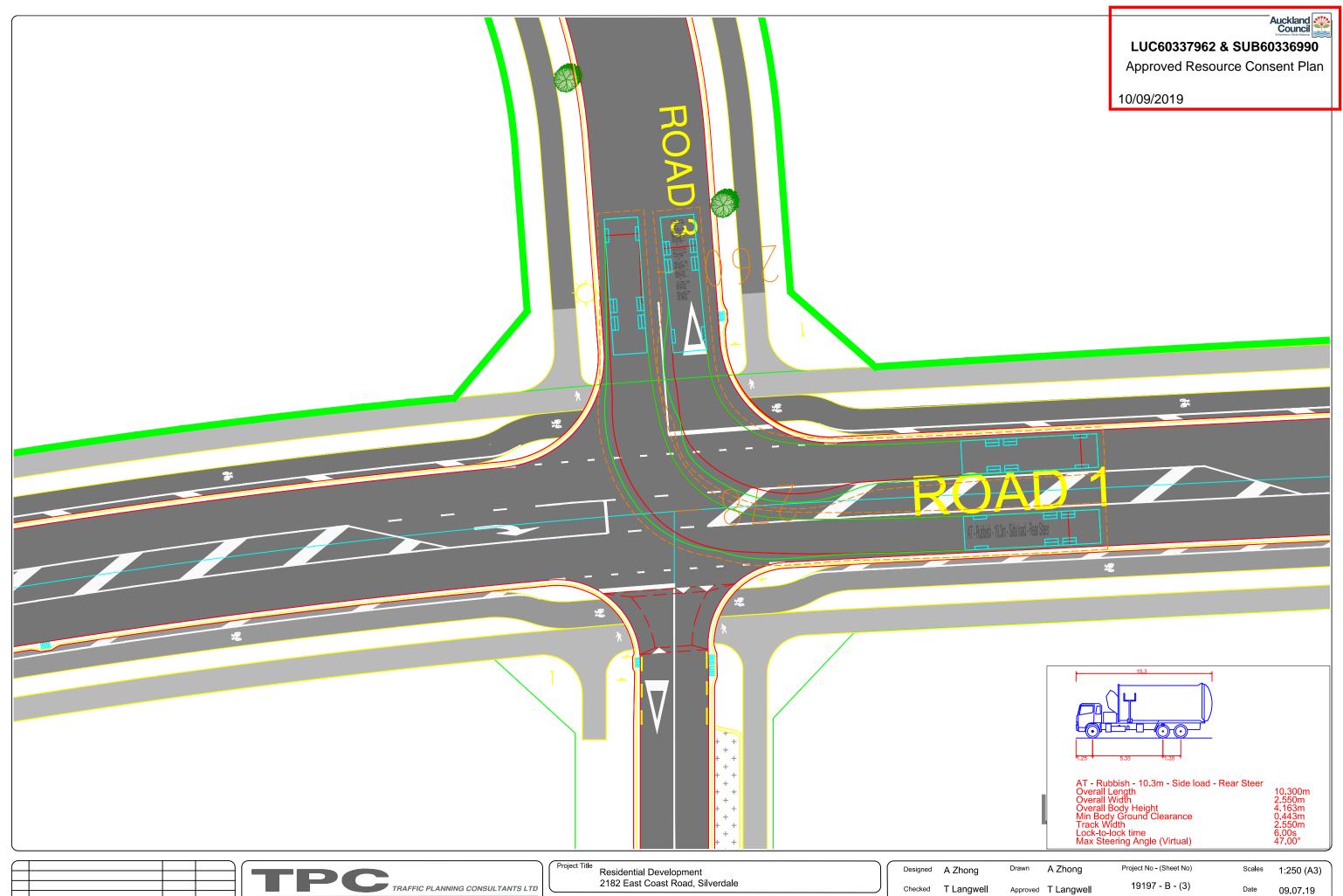


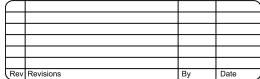












Level 1, 400 Titirangi Rd, Titirangi, P.O Box 60-255, Auckland 0604 Phone: 09 817-2500 www.trafficplanning.co.nz

Vehicle Tracking - 10.3m Rubbish Truck

Designed	A Zhong	Drawn	A Zhong	Project No - (Sheet No)	Scales	1:250 (A3)
Checked	T Langwell	Approved	T Langwell	19197 - B - (3)	Date	09.07.19

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Landscape Plan Set for

Build Rich Ltd

Stage 5 East Coast Rd, Silverdale, Auckland

Sheet:	RC Issue:	S92 Revision:
8018/1 - Site Plan	1/04/19	23/08/19
8018/2 - Planting Plan	1/04/19	23/08/19
8018/3 - Hardscape Plan	1/04/19	23/08/19
8018/4 - Planting Detail	1/04/19	23/08/19

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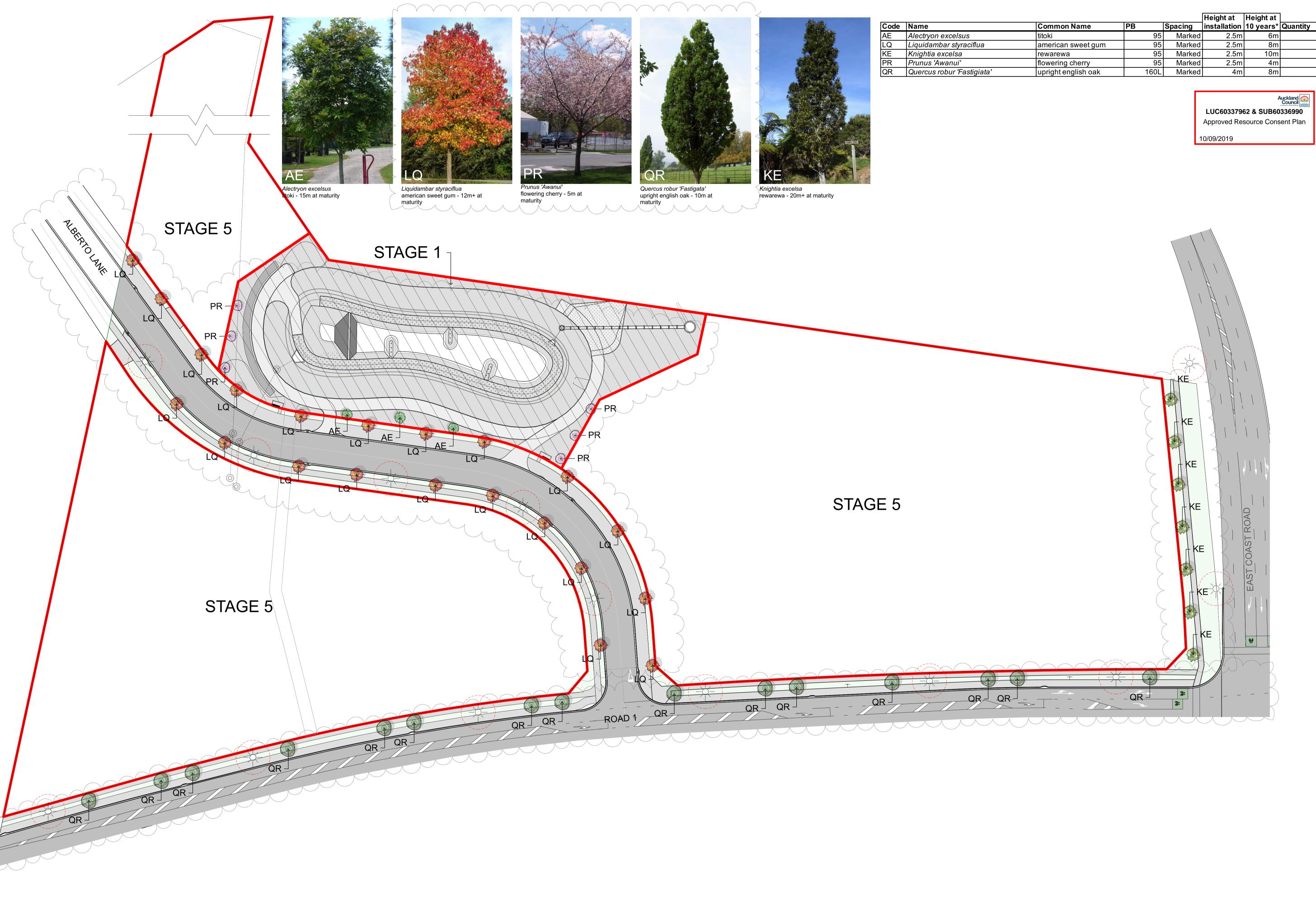


Client Build Rich Ltd Project

Stage 5 East Coast Rd, Silverdale, Auckland

Drawing 8018/1 Site Plan Scale 1:750@A1 1:1500@A3 N

Date Issued 1/04/19 Rev A 23/08/19 Drawn Checked
GR MB
Website
greenwoodassociates.co.nz





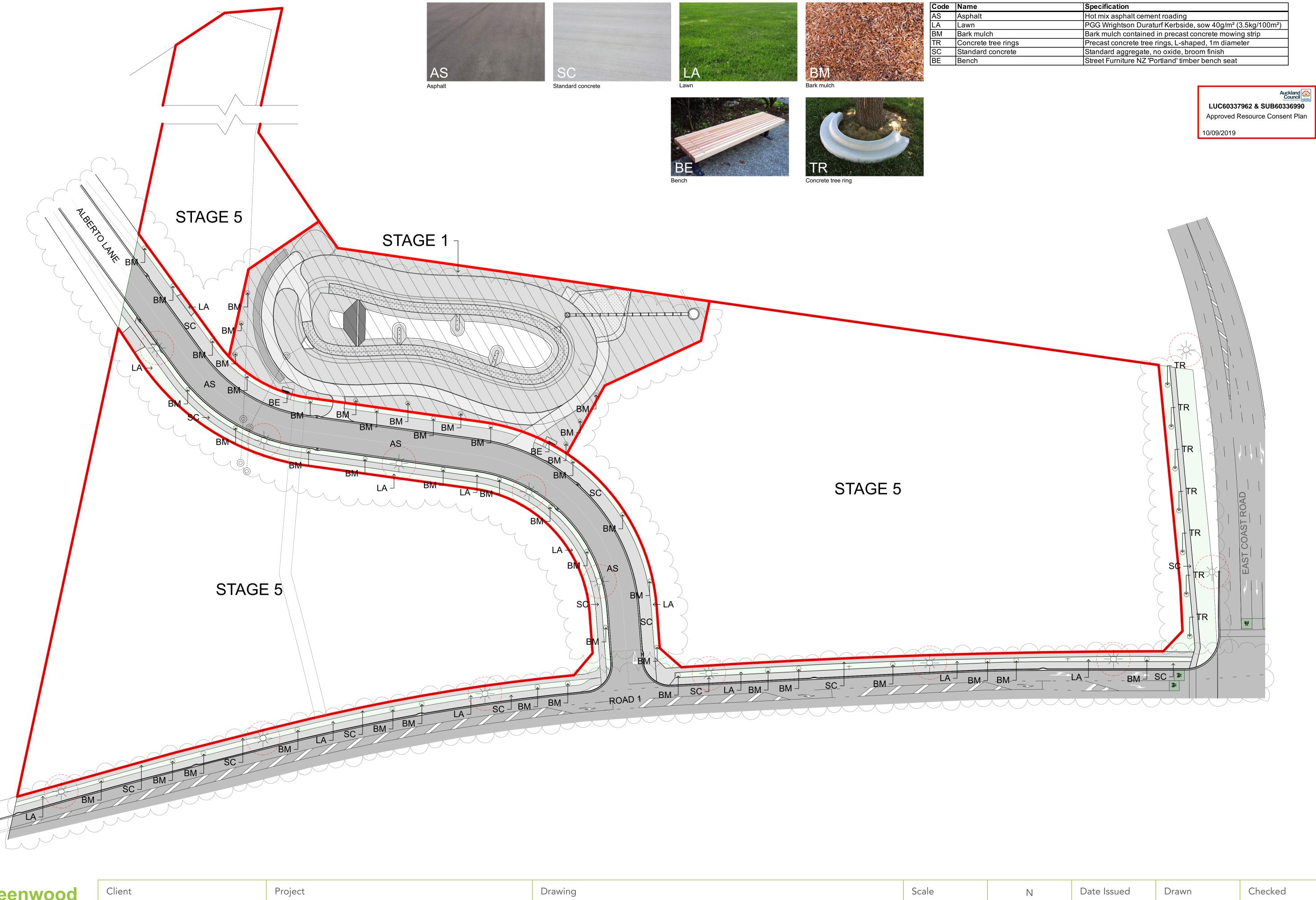
Client Build Rich Ltd Project
Stage 5 East Coast Rd, Silverdale, Auckland

Drawing 8018/2 Planting Plan Scale 1:500@A1 1:1000@A3

N

Date Issued 1/04/19 Rev A 23/08/19 Drawn Checked
GR MB
Website

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Build Rich Ltd

Stage 5 East Coast Rd, Silverdale, Auckland

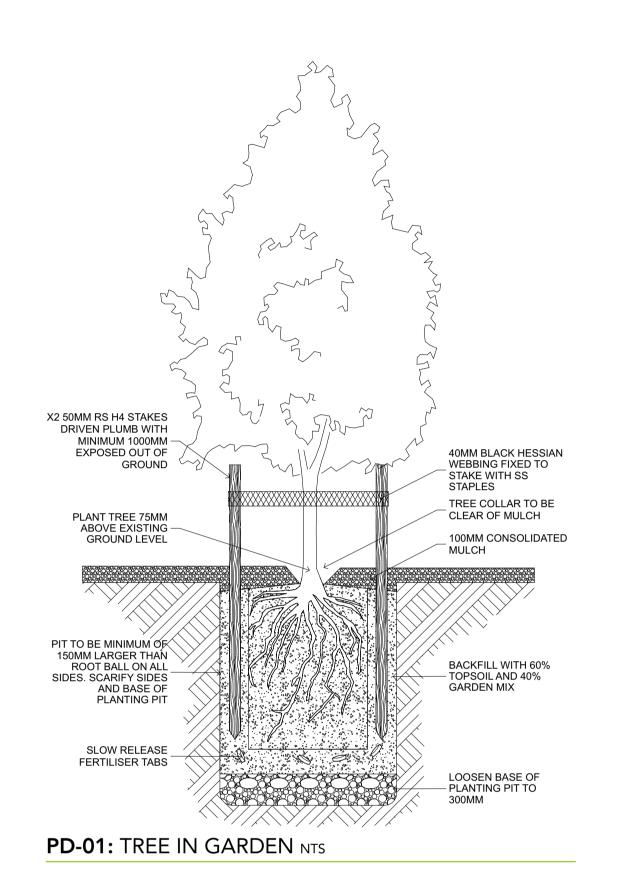
8018/3 Hardscape Plan

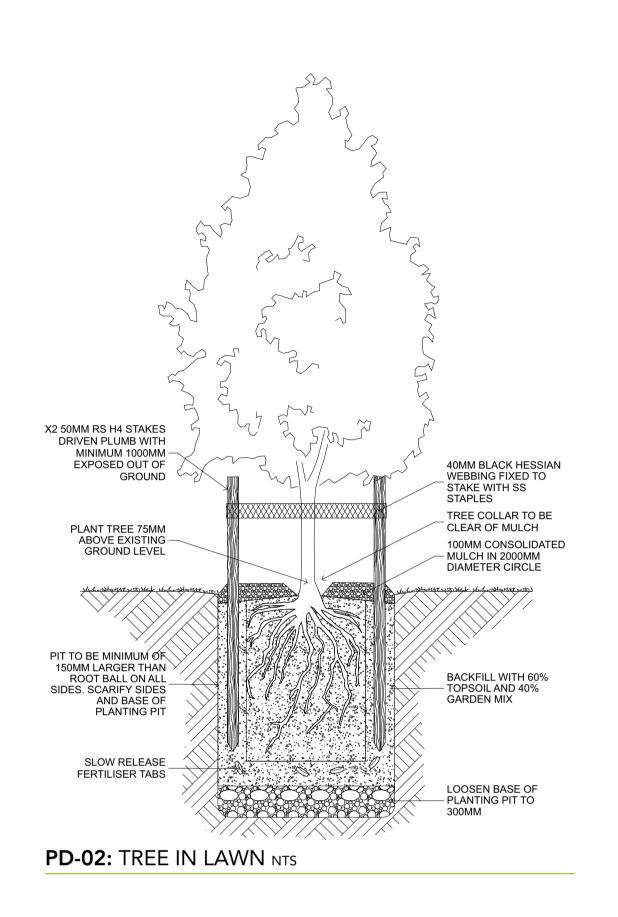
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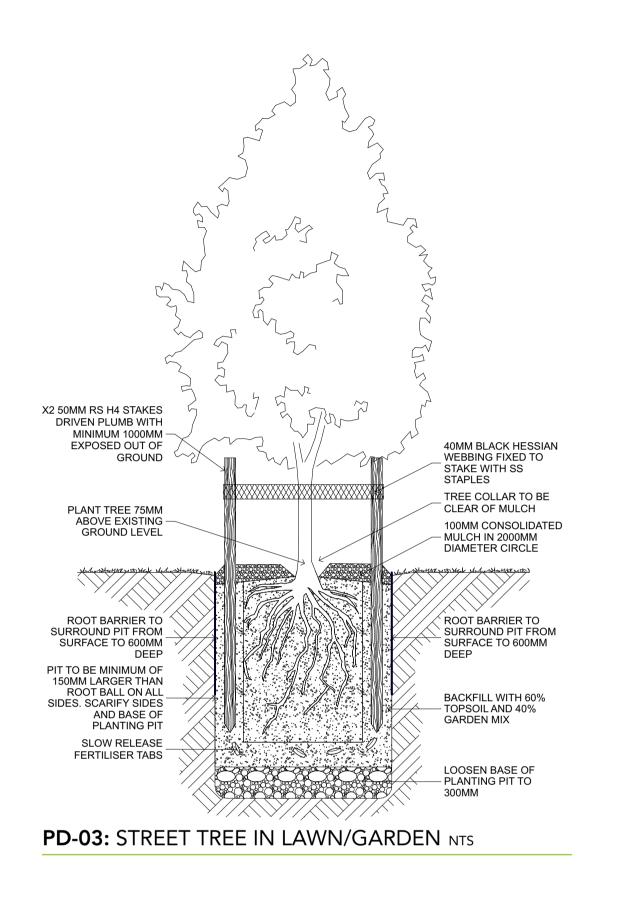
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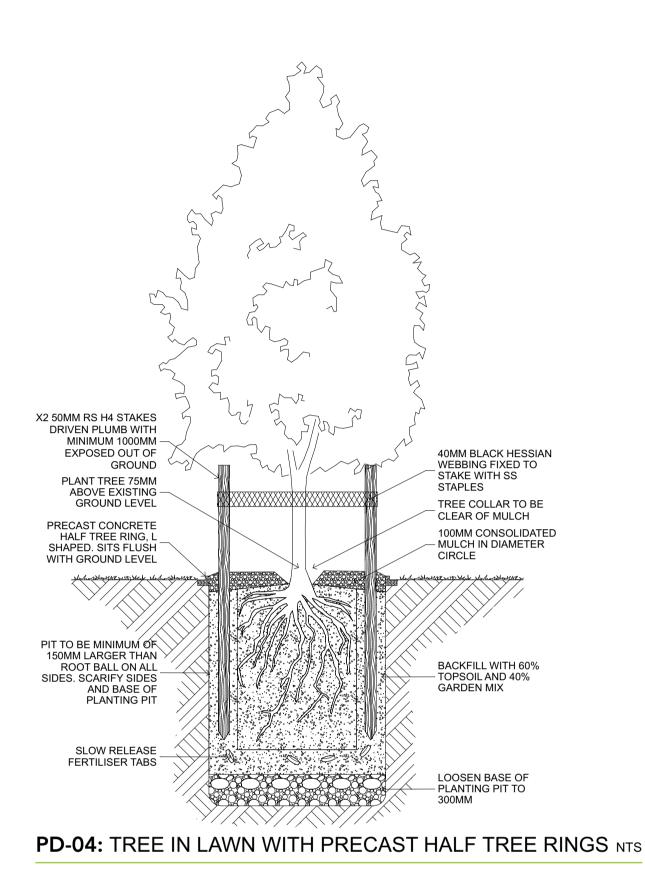
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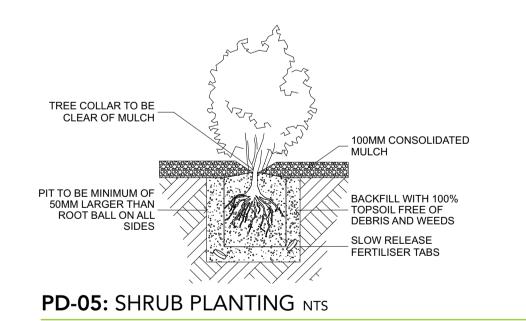
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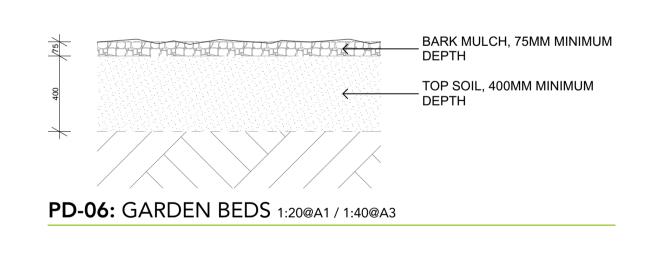


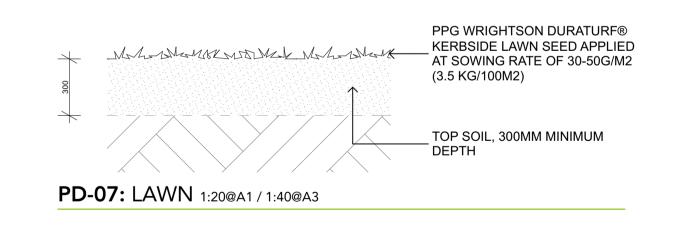


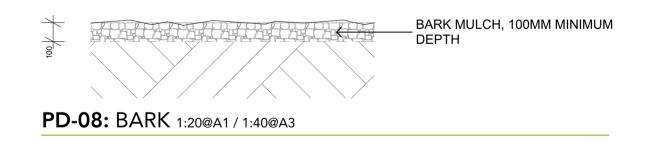














Checked

MB