CIVIL ENGINEERING DESIGN
FOR APPROVAL

CANNON POINT DEVELOPMENT LTD

TACOMA DRIVE, TOTORA PARK, UPPER HUTT

PROJECT REF: 26014



LOCATION PLAN

SCALE: 1:8000m

A1 REPRODUCTION SCALE 0mm 9mm 20 40 60 80 100

A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: COVER SHEET

Discipline: CIVIL

Vecta Ref. No.: 26014 | Drawing No.: C000 | Rev.: C

Plotted By: Zed Fu

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C000	COVER SHEET AND LOCATION PLAN				A	B
C001	DRAWING SCHEDULE				A	B
C002	GENERAL NOTES, LEGEND AND ABBREVIATIONS SHEET				A	B
C100	EXISTING SITE PLAN - OVERVIEW				A	B
C101	EXISTING SITE PLAN - SHEET 1				A	B
C102	EXISTING SITE PLAN - SHEET 2				A	B
C103	EXISTING SITE PLAN - SHEET 3				A	B
C110	PROPOSED SITE PLAN OVERVIEW				A	B
C111	PROPOSED SITE PLAN - SHEET 1				A	B
C112	PROPOSED SITE PLAN - SHEET 2				A	B
C113	PROPOSED SITE PLAN - SHEET 3				A	B
C114	PROPOSED SITE PLAN - SHEET 4				A	B
C115	PROPOSED SITE PLAN - SHEET 5				A	B
C200	BULK EARTHWORKS PLAN OVERVIEW				A	B
C201	BULK EARTHWORKS PLAN - SHEET 1				A	B
C202	BULK EARTHWORKS PLAN - SHEET 2				A	B
C203	BULK EARTHWORKS PLAN - SHEET 3				A	B
C204	SECTIONS - SHEET 1				A	B
C210	EROSION AND SEDIMENT CONTROL PLAN OVERVIEW				A	B
C211	EROSION AND SEDIMENT CONTROL PLAN - SHEET 1				A	B
C212	EROSION AND SEDIMENT CONTROL PLAN - SHEET 2				A	B
C213	EROSION AND SEDIMENT CONTROL PLAN - SHEET 3				A	B
C220	EROSION AND SEDIMENT CONTROL DETAILS - SHEET 1				A	B
C221	EROSION AND SEDIMENT CONTROL DETAILS - SHEET 2				A	B
C222	EROSION AND SEDIMENT CONTROL DETAILS - SHEET 3				A	B
C300	DRAINAGE PLAN OVERVIEW				A	B
C301	DRAINAGE PLAN - SHEET 1				A	B
C302	DRAINAGE PLAN - SHEET 2				A	B
C303	DRAINAGE PLAN - SHEET 3				A	B
C304	DRAINAGE PLAN - SHEET 4				A	B
C305	DRAINAGE PLAN - SHEET 5				A	B
C306	DRAINAGE PLAN - SHEET 6				A	B
C307	DRAINAGE PLAN - SHEET 7				A	B
C310	STORMWATER LONGSECTION - SHEET 1				A	B
C311	STORMWATER LONGSECTION - SHEET 2				A	B
C312	STORMWATER LONGSECTION - SHEET 3				A	B
C313	STORMWATER LONGSECTION - SHEET 4				A	B
C314	STORMWATER LONGSECTION - SHEET 5				A	B
C315	STORMWATER LONGSECTION - SHEET 6			A	B
C316	STORMWATER LONGSECTION - SHEET 6			A	B
C317	STORMWATER LONGSECTION - SHEET 7			A	B
C320	SEWER LONGSECTION - SHEET 1			A	B
C321	SEWER LONGSECTION - SHEET 2			A	B
C322	SEWER LONGSECTION - SHEET 3			A	B
C323	SEWER LONGSECTION - SHEET 4			A	B
C324	SEWER LONGSECTION - SHEET 5			A	B
C330	DRAINAGE CULVERT CROSSING PLAN			A	B
C331	CULVERT CROSSING AT ROAD LONGSECTION CHAINAGE 780-840			A	B
C332	UPSTREAM AND DOWNSTREAM CROSS SECTION DETAILS			A	B
C333	TYPICAL ARCH CULVERT DETAILS			A	B
C340	DRAINAGE DETAILS - SHEET 01			A	B
C341	DRAINAGE DETAILS - SHEET 01			A	B
C342	DRAINAGE DETAILS - SHEET 01			A	B
C343	DRAINAGE DETAILS - SHEET 01			A	B
C350	RAIN GARDEN DETAILS			A	B
C351	RAIN GARDEN CROSS SECTIONS			A	B
C360	CATCHMENT PLAN OVERVIEW			A	B
C361	CATCHMENT PLAN - SHEET 1			A	B
C362	CATCHMENT PLAN - SHEET 2			A	B
C363	CATCHMENT PLAN - SHEET 3			A	B
C400	WATER PLAN OVERVIEW - STAGE 3			A	B
C401	WATER PLAN - SHEET 1			A	B
C402	WATER PLAN - SHEET 2			A	B
C403	WATER PLAN - SHEET 3			A	B
C404	WATER PLAN - SHEET 4			A	B
C405	WATER PLAN - SHEET 5			A	B
C406	WATER PLAN - SHEET 6			A	B
C410	POTABLE WATER TYPICAL DETAILS - SHEET 1			A	B
C411	POTABLE WATER TYPICAL DETAILS - SHEET 2			A	B
C412	POTABLE WATER TYPICAL DETAILS - SHEET 3			A	B
C413	POTABLE WATER TYPICAL DETAILS - SHEET 4			A	B
C500	ROADING PLAN OVERVIEW			A	B
C501	ROADING PLAN - SHEET 1			A	B
C502	ROADING PLAN - SHEET 2			A	B
C503	ROADING PLAN - SHEET 3			A	B
C504	ROADING PLAN - SHEET 4			A	B
C505	ROADING PLAN - SHEET 5			A	B
C510	ROADING TYPICAL DETAILS - SHEET 1			A	B
C511	ROADING TYPICAL DETAILS - SHEET 2			A	B
C520	ROAD LONGITUDINAL SECTIONS - SHEET 1			A	B
C521	ROAD LONGITUDINAL SECTIONS - SHEET 2			A	B
C522	ROAD LONGITUDINAL SECTIONS - SHEET 3			A	B
C523	ROAD LONGITUDINAL SECTIONS - SHEET 4			A	B
C524	ROAD LONGITUDINAL SECTIONS - SHEET 5				B
C525	KERB RETURNS LONGITUDINAL SECTIONS - SHEET 1			A	B
C526	KERB RETURNS LONGITUDINAL SECTIONS - SHEET 2				B
C527	CUL-DE-SAC LONGITUDINAL SECTION - SHEET 1			A	B
C528	CUL-DE-SAC LONGITUDINAL SECTION - SHEET 2			A	B
C530	ROAD 01 CROSS SECTIONS - SHEET 1			A	B
C531	ROAD 01 CROSS SECTIONS - SHEET 2			A	B
C532	ROAD 01 CROSS SECTIONS - SHEET 3			A	B
C533	ROAD 01 CROSS SECTIONS - SHEET 4			A	B
C534	ROAD 01 CROSS SECTIONS - SHEET 5			A	B
C535	ROAD 02 CROSS SECTIONS - SHEET 1			A	B
C536	ROAD 02 CROSS SECTIONS - SHEET 2			A	B
C537	ROAD 03 CROSS SECTIONS - SHEET 1				B
C540	EXISTING WETLAND PLAN			A	B

C550	ROADING TRACKING CURVE SHEET 1			A	B
C551	ROADING TRACKING CURVE SHEET 2			A	B
C552	ROADING TRACKING CURVE SHEET 3			A	B
C553	ROADING TRACKING CURVE SHEET 4			A	B
C554	ROADING TRACKING CURVE SHEET 5			A	B
C555	ROADING TRACKING CURVE SHEET 6			A	B
C600	RETAINING WALL OVERVIEW PLAN			A	B
C601	RETAINING WALL PLAN - SHEET 1			A	B
C602	RETAINING WALL PLAN - SHEET 2			A	B
C603	RETAINING WALL PLAN - SHEET 3			A	B
C604	RETAINING WALL PLAN - SHEET 4			A	B
C605	RETAINING WALL PLAN - SHEET 5			A	B
C610	RETAINING WALL TYPICAL DETAILS			A	B
C620	RETAINING WALL LONGITUDINAL SECTION SHEET - 1			A	B
C621	RETAINING WALL LONGITUDINAL SECTION SHEET - 2			A	B
C622	RETAINING WALL LONGITUDINAL SECTION SHEET - 3			A	B
C623	RETAINING WALL LONGITUDINAL SECTION SHEET - 4			A	B
C624	RETAINING WALL LONGITUDINAL SECTION SHEET - 5			A	B
C625	RETAINING WALL LONGITUDINAL SECTION SHEET - 6			A	B
C626	RETAINING WALL LONGITUDINAL SECTION SHEET - 7			A	B

A1 REPRODUCTION SCALE 100 80 60 40 20 0mm

A3 REPRODUCTION SCALE 50 40 30 20 10 0mm

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Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: DRAWING REGISTER (CIVIL ENGINEERING SET)

Discipline: CIVIL

Vecta Ref. No. 26014 | Drawing No. C001 | Rev. C

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Plotted By: Zed Fu

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GENERAL NOTES

1. PIPES, CABLES AND OTHER UTILITIES, FOUNDATIONS, LEVELS, REFERENCE MARKS AND OTHER OBSTRUCTIONS INDICATED ON THIS DRAWING ARE BASED ONLY ON READILY AVAILABLE RECORD PLANS AND OTHER INFORMATION. THIS INFORMATION MAY NOT BE COMPLETE, ACCURATE OR UP TO DATE PRIOR TO CARRYING OUT ANY EXCAVATION OR OTHER PHYSICAL WORK, CONTRACTORS SHALL OBTAIN THE LATEST INFORMATION FROM UTILITY PROVIDERS AND CARRY OUT DETAILED EXPLORATORY WORK, TRACING, LOCATING, PROTECTION, ISOLATION AND ALTERATIONS AS REQUIRED. CONTRACTOR MUST FOLLOW WORKSAFE NZ GUIDELINES FOR SAFE LOCATION OF UNDERGROUND SERVICES.
2. PUBLIC SHALL BE ADEQUATELY NOTIFIED PRIOR TO WORKS COMMENCING, AND 24 HOURS PRIOR TO DISRUPTION OF SERVICE.
3. ALL CARE MUST BE TAKEN BY THE CONTRACTOR NOT TO DAMAGE PRIVATE PROPERTY, OR ANY GARDENED AREA OTHER THAN THOSE NECESSARY AS PART OF THE WORKS.
4. ALL WORKS ARE TO BE CONSTRUCTED USING BEST TRADE PRACTICES.
5. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT REGULATORY STANDARDS, NZ BUILDING CODE, AND MANUFACTURER'S SPECIFICATIONS.

UNDERGROUND GAS PIPES

MACHINE DIGGING
STRATEGIC INTERMEDIATE PRESSURE (FEEDER MAIN OPERATING AT PRESSURES GREATER THAN 700 KPa (100 psi) AND MEDIUM PRESSURE GAS PIPES

(A) MACHINE DIGGING IS NOT PERMITTED CLOSER THAN 1.0m FROM ANY STRATEGIC INTERMEDIATE PRESSURE AND MEDIUM PRESSURE GAS MAINS OR SERVICES. ANY EXCAVATION WORK WITHIN THE DISTANCE MUST BE PERFORMED BY HAND DIGGING AND UNDER THE OBSERVATION OF A POWERCO APPROVED WORKS PROTECTION OBSERVER INCLUDING THE BACKFILLING OPERATION.

(B) PLEASE REFER TO THE POWERCO STANDARD "EXCAVATION WORKS IN THE VICINITY OF STRATEGIC CABLES AND PIPES" BEFORE COMMENCING EXCAVATION WORK IN THE VICINITY OF STRATEGIC GAS PIPES.

MEDIUM AND LOW PRESSURE GAS PIPES

(C) MACHINE DIGGING IS NOT PERMITTED CLOSER THAN 500mm FROM ANY MEDIUM OR LOW PRESSURE GAS MAIN OR SERVICE UNLESS THE POSITION OF THE PIPES HAS BEEN VERIFIED BY HAND DIGGING AND EXPOSING THEM FIRST.

NOTIFICATION OF WORK NEAR STRATEGIC INTERMEDIATE PRESSURE AND MEDIUM PRESSURE GAS PIPES.

(A) AT LEAST 2 WORKING DAYS NOTICE MUST BE GIVEN TO POWERCO PRIOR TO ANY EXCAVATION WORK TAKING PLACE.

(B) IT IS THE EXCAVATION CONTRACTOR'S RESPONSIBILITY TO CONTACT THE POWERCO HELP DESK ON 0800 769 372 FOR THE ABOVE NOTIFICATION.

(C) THE EXCAVATION CONTRACTOR WILL BE ISSUED WITH A WORKS AGREEMENT WHICH MUST BE COMPLETED AND SIGNED PRIOR TO ANY EXCAVATION WORK TAKING PLACE NEAR ANY STRATEGIC INTERMEDIATE PRESSURE OR MEDIUM PRESSURE GAS PIPES.

LOCATION OF OTHERS SERVICES

(A) INTERMEDIATE PRESSURE GAS PIPES
NO SERVICES SHALL BE LAID CLOSER THAN 300mm FROM ANY INTERMEDIATE PRESSURE GAS PIPE

(B) LOW OR MEDIUM PRESSURE GAS PIPES
NO SERVICES SHALL BE LAID CLOSER THAN 150mm FROM ANY LOW OR MEDIUM PRESSURE GAS PIPE

UNDERGROUND POWER

AT LEAST 2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION. HAND DIGGING IS REQUIRED WHEN EXCAVATING WITHIN 1m OF CABLE. REPLACEMENT TRENCH BACKFILL MATERIAL MUST BE THE SAME AS THAT REMOVED AND MUST BE REPLACED TO THE SAME LEVEL OF COMPACTION.

UNDERGROUND TELECOM

ONSITE CABLE LOCATE OR STANDOVER IS REQUIRED IF WORKING WITHIN 1m OF THESE CABLES. AT LEAST 2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION. FOR LOCATE AND STANDOVER CONTACT 0800 248 344.

WATER NOTES

1. THE CONTRACTOR TO CHECK INVERT LEVELS OF EXISTING AND PROPOSED SYSTEM AND ADVISE ENGINEER OF ANY ANOMALIES PRIOR TO COMMENCING PIPE LAYING.
2. WATER MAIN IS TO BE SCOURED TO REMOVE ALL DEBRIS BEFORE COMMISSIONING TESTING AND SERVICES ARE CONNECTED TO HOUSES.
3. MINIMUM COVER OF 750mm AT ALL PLACES MEASURED FROM THE GROUND SURFACE. MAXIMUM COVER TO BE 1350mm.
4. CONCRETE THRUST BLOCKS TO BE CONSTRUCTED ON ALL BENDS,TAPERS, TEES AND DEAD ENDS, CONCRETE TO BE 20 MPa, THRUST BLOCKS TO BE CONSTRUCTED TO MAINTAIN ACCESS TO THE BOLTS, ADJACENT JOINTS / FLANGES AND FITTINGS CONCRETE THRUST BLOCKS TO BE SIZED AS PER THE CURRENT VERSION OF THE LOCAL ENGINEERING STANDARDS.
5. ALL BACKFILL MATERIAL SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm IN LOOSE DEPTH.
6. THE CONTRACTOR SHALL CARRY OUT SCALA PENETROMETER TESTING AT NOT MORE THAN 5m DISTANCES ALONG TRENCH, THE RESULTS MUST BE RECORDED AND MADE AVAILABLE TO THE ENGINEER A COMPACTION OF NOT LESS THAN 7 BLOWS / 50mm, 4 BLOWS / 50mm AND 2 BLOWS / 50mm IN CARRIAGEWAYS, FOOTPATHS AND BERMS RESPECTIVELY MUST BE ACHIEVED.
7. DETECTOR TAPE MUST BE LAID ABOVE ALL WATER PIPES IN ACCORDANCE WITH THE SPECIFICATIONS
8. CONTRACTOR TO REMOVE ABANDONED VALVES AND HYDRANTS. NOTE ALL REINSTATEMENT IS TO COMPLY WITH NATIONAL CODE OF PRACTICE FOR UTILITY OPERATOR'S ACCESS TO TRANSPORT CORRIDORS.
9. LOCATION AND REQUIREMENTS FOR BENDS SHOWN ARE INDICATIVE. CONTRACTOR TO CONFIRM SPECIFIC LOCATIONS AND REQUIREMENTS WITH ENGINEER ON SITE.
10. SERVICE CONNECTION LOCATIONS ARE INDICATIVE ONLY, SERVICE PIPES SHALL BE LAID PERPENDICULAR TO THE MAIN. ALL SERVICE PIPES SHALL BE EXTENDED TO THE NEW MAIN.

SEWER / STORMWATER NOTES

1. THE CONTRACTOR IS TO ENSURE ALL WASTEWATER IS CONTAINED WITHIN THE SEWER SYSTEM. ANY OVERPUMPING IS TO BE ALLOWED FOR IN THE CONTRACT RATES. THERE ARE TO BE NO SEWAGE SPILLS IN PRIVATE PROPERTY.
2. THE CONTRACTOR IS TO ALLOW FOR ALL SHORING REQUIRED FOR TRENCHING IN ANY UNSTABLE GROUND WHICH MAY BE ENCOUNTERED.
3. THE LATERAL STUB POSITIONS TO BE CONFIRMED FROM CCTV BY THE CONTRACTOR. PRIOR TO RECONNECTION TO THE NEW PIPELINE, TESTS SHALL BE CARRIED OUT TO DETERMINE LIVE LATERALS. NO DEAD LATERALS SHALL BE CONNECTED.
4. EXISTING LAWN SHALL BE REMOVED AS TURF SLABS AND REINSTATED ON COMPLETION.
5. CONTRACTOR TO DEWATER AS NECESSARY TO COMPLETE THE WORKS.
6. CONTRACTOR TO REINSTATE ALL ROAD SURFACE MARKINGS AND RRPMs.
7. PROVIDE WATER STOPS ON STEEP SECTIONS IN ACCORDANCE WITH REGIONAL WATER SPECIFICATIONS.
8. EXISTING SEWER PIPES TO BE ABANDONED SHALL BE CAPPED OFF AT BOTH ENDS WITH A CONCRETE PLUG.
9. WHERE EXISTING MANHOLES ARE BEING REPLACED WITH NEW, THE CONTRACTOR SHALL RECONNECT ALL EXISTING PIPELINES TO THE NEW MANHOLE.
10. THE PIPELINES ARE TO BE CONSTRUCTED AT THE INVERT LEVELS SHOWN ON THE LONG SECTIONS, WITH DEPTHS TO INVERT AND PIPE GRADES PROVIDED FOR GUIDANCE ONLY. DEPTHS TO INVERT AND PIPE GRADES SHALL BE ADJUSTED BY THE CONTRACTOR IF NECESSARY TO ACHIEVE THE SPECIFIED INVERT LEVELS.
11. THE CONTRACTOR SHALL CHECK AND CONFIRM ALL EXISTING SEWER LOCATIONS AND LEVELS ON SITE AS AN INITIAL ACTIVITY, ADVISE THE ENGINEER FOR FURTHER INSTRUCTION SHOULD THESE DIFFER FROM THE INFORMATION SHOWN ON THE DRAWINGS.
12. ALL MANHOLES AFFECTED BY THE WORKS SHALL HAVE THEIR CONDITION REVIEWED BY THE CONTRACTOR AS AN INITIAL ACTIVITY INCLUDING A RECOMMENDATION AS TO WHETHER UPGRADE OR REPLACEMENT IS REQUIRED. THE ENGINEER SHALL INSTRUCT ON THE REQUIRED APPROACH THEN.

FILL

1. SITE TO BE CLEARED OF ALL TOPSOIL AND ANY ORGANIC MATERIAL THEN CUT TO A SERIES OF LEVEL BENCHES.
2. ENGINEER TO INSPECT PRIOR TO ANY FILL PLACEMENT.
3. FILL MATERIAL TO BE CRUSHED ROCK TOPCOURSE MATERIAL FREE OF ORGANIC MATERIAL FULLY COMPACTED TO 90% OF MAXIMUM DENSITY TO BS1377 TEST 9.
4. COMPACT IN MAXIMUM LAYERS OF 150mm THICK WITH A 2 TONNE ROLLER - TRACK ROLLING WITH A DIGGER IS NOT ACCEPTABLE.
5. ENGINEER TO INSPECT AND TEST EVERY 2ND LAYER PLACED (300mm INTERVALS).

ROADING

1. ALL PAVEMENT MATERIALS AND WORK STANDARDS TO BE IN ACCORDANCE WITH ALL RELEVANT NZ STANDARDS, TERRITORIAL AUTHORITY REGULATION INCLUDING THE CURRENT VERSION OF NZS 4404.
2. THE CONTRACTOR SHALL UNDERTAKE BENKELMAN BEAM TESTS ON THE FINISHED BASE COURSE ON ALL PAVEMENT AREAS AND PROVIDE RESULTS TO THE ENGINEER.
3. REINSTATE ALL DAMAGE TO ADJACENT FEATURES CAUSED BY THE WORKS.

CONCRETE

1. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF NZS3109:1997 AND NZS 3114: 1987 FOR SURFACE FINISHES.
2. IF MAXIMUM HEIGHT DIMENSIONS VARY FROM THAT SHOWN CONTACT ENGINEER IMMEDIATELY. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR THE SET OUT ON SITE AND DETERMINING ACTUAL WALL HEIGHTS AS THESE MAY VARY FROM THAT SHOWN.
3. CONCRETE SHALL HAVE A 28 DAY STRENGTH OF:
   25MPa - SLABS & FOOTINGS
   20MPa - PILES
   10MPa - TIDY SLABS
4. MAXIMUM SLUMP TO BE 100mm UNLESS TO NOTED OTHERWISE.
5. CONCRETE FINISHES SHALL BE:
   SLABS U3
   KERB AND CHANNEL U3
   EXPOSED FOOTINGS F4
   FOOTPATHS AND ACCESSWAYS U5
6. ALL REINFORCEMENT SHALL COMPLY WITH AS/NZS4671:2001 (HD BARS SHALL NOT BE REBENT).
7. THE CONCRETE SHALL BE KEPT CONTINUOUSLY WET FOR A PERIOD OF AT LEAST 4 DAYS. FROM 4-10 DAYS AFTER POURING IT SHALL BE KEPT DAMP BY OCCASIONAL HOSING.
8. ALL HOLD DOWN BOLTS SPECIFIED AS CHEMICAL ANCHORS TO BE DRILLED AND EPOXY GROUTED AFTER SLAB HAS CURED.
9. ALL CHEMICAL ANCHOR HOLES TO BE CLEANED OUT IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS.

HEALTH AND SAFETY

1. THE CONTRACTOR SHALL ESTABLISH, IMPLEMENT, AND MAINTAIN A COMPREHENSIVE HEALTH AND SAFETY MANAGEMENT PROGRAM TO ENSURE THAT ALL CONSTRUCTION ACTIVITIES ARE CARRIED OUT IN FULL COMPLIANCE WITH APPLICABLE HEALTH AND SAFETY REGULATIONS AND ALL OTHER RELEVANT STATUTORY REQUIREMENTS.
2. THE HEALTH AND SAFETY MANAGEMENT PROGRAM SHALL BE COORDINATED WITH ADJOINING PROPERTY OWNERS AND ALL RELEVANT STAKEHOLDERS TO ENSURE THE MAINTENANCE OF A SAFE CONSTRUCTION ENVIRONMENT AT ALL TIMES.
3. ASBESTOS CONTAINING MATERIAL (ACM)
   THE BUILDER IS RESPONSIBLE FOR IDENTIFYING ANY EXISTING ACM THAT MAY BE PRESENT PRIOR TO COMMENCING ANY WORKS, IDENTIFICATION, ASBESTOS MANAGEMENT PLAN, REMOVAL AND DEMOLITION SHALL BE CARRIED OUT AS PER:

   HEALTH AND SAFETY AT WORK (ASBESTOS) REGULATIONS 2016

SAFETY IN CONSTRUCTION

1. WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NEW ZEALAND HEALTH AND SAFETY AT WORK ACT 2015.
2. DURING CONSTRUCTION THE STRUCTURE AND EXCAVATIONS SHALL BE MAINTAINED IN SAFE AND STABLE CONDITIONS AT ALL TIMES AND NO PART SHALL BE OVERSTRESSED.
3. THE CONTRACTOR SHALL PROVIDE TEMPORARY WORKS SUCH AS BRACING, PROPPING AND SHORING AS NECESSARY, THE CONTRACTOR SHALL ENGAGE A STRUCTURAL ENGINEER TO DESIGN AND CERTIFY THE TEMPORARY WORKS.
4. THE OVERALL STABILITY OF THE STRUCTURE DURING CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITIES.

POTENTIAL SITE HAZARDS

1. SITE SERVICES: ACCESS TO THE SITE, POWER, AND GAS.
2. WORKING AT HEIGHTS: WORKING ON TRENCHES, TEMPORARY WORKS AND SCAFFOLDS, AND LADDERS.
3. STABILITY OF GROUND CONDITIONS. REFER TO GEOTECHNICAL ENGINEER.
4. MOVING PLANTS AND MACHINERIES: OPERATING AREAS, CLEARANCES, COMMUNICATION, TRAFFIC, VEHICLES, AND TOOLS.
5. LIFTING: MANUAL LABOUR AND HANDLING, LOADING AND UNLOADING MATERIALS, MACHINE AND HAND EXCAVATIONS.
6. CRITICAL HEALTH RISKS: HAZARDOUS CHEMICALS, AND NOISE.
7. STAFF WELL-BEING: FATIGUE, MEDICAL EVENTS, ALCOHOL, AND DRUGS.

PIPE MATERIAL

CODE	DESCRIPTION
ABS	ACRYLONITRILE BUTADIENE STYRENE
AC	ASBESTOS CEMENT
AC-E	ASBESTOS CEMENT EVERITE
AC-I	ASBESTOS CEMENT ITALITE
AL	ALUMINIUM
CI	CAST IRON
CU	COPPER
DI	DUCTILE IRON
EW	EARTHEN WARE
GI	GALVANISED IRON
LBST	LOCKBAR STEEL
MPVC	MODIFIED POLYVINYL CHLORIDE
PE100	POLYETHYLENE HDPE
PE80	POLYETHYLENE MDPE
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SS	STAINLESS STEEL
MSCL	MILD STEEL CONCRETE LINED
UNK	UNKNOWN
UPVC	UNPLASTICISED POLYVINYL CHLORIDE

ROADING

CODE	DESCRIPTION
K&C	KERB AND CHANNEL
FP	FOOTPATH
NK	NIB KERB
MK	MOUNTABLE KERB
DC	DISH CHANNEL
VC	VEHICLE CROSSING
KR	KERB RETURN
EOS	EDGE OF SEAL

GENERAL ABBREVIATION

ABBV.	DESCRIPTION
PR	PROPOSED
EX	EXISTING
SS	SEWER
SW	STORMWATER
LHCE	LAMP HOLE CLEANING EYE
RW	RETAINING WALL

DISCLAIMERS

THE LOCATIONS OF EXISTING UNDERGROUND SERVICES DEPICTED ON VECTA DRAWINGS ARE BASED ON INFORMATION OBTAINED EITHER FROM THE DETAILED SITE SURVEY OR FROM RELEVANT AUTHORITIES. VECTA MAKES NO WARRANTY REGARDING THE ACCURACY OF THESE SERVICE LOCATIONS AND ACCEPTS NO RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE PRECISE LOCATION AND EXTENT OF ALL SERVICES BEFORE COMMENCING CONSTRUCTION, AND TO INFORM THE ENGINEER OF ANY DISCREPANCIES OR UNLISTED SERVICES.

VECTA WILL NOT CERTIFY ANY WORK THAT HAS NOT BEEN CONSTRUCTED IN FULL COMPLIANCE WITH THE VECTA DRAWINGS

IMPORTANT SERVICES NOTE

THE SERVICES SHOWN SHOULD BE CONSIDERED INDICATIVE ONLY AND ARE BASED ON RECORDS SUPPLIED BY THE UTILITY COMPANIES. PRIVATE SERVICES AND CONNECTIONS ARE NOT SHOWN.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SERVICES ARE LOCATED/MARKED BY THE APPROPRIATE SERVICE AUTHORITY, OR THEIR OWN STAFF, PRIOR TO ANY SITE WORKS, AND FOR PROTECTING THESE SERVICES FOR THE DURATION OF THE SITE CONTRACT.

WW SERVICES LEGEND

EXISTING PUBLIC SW
EXISTING PRIVATE SW
PROPOSED PUBLIC SW MAIN
PROPOSED PRIVATE SW MAIN
PROPOSED SW LOT CONN
EXISTING/PROPOSED SW SUMP
EXISTING PUBLIC SS MAIN
EXISTING PRIVATE SS MAIN
PROPOSED PUBLIC SS MAIN
PROPOSED PRIVATE SS MAIN
PROPOSED SS LOT CONN
PROPOSED SS RISING MAIN
EXISTING/PROPOSED PUMP
EXISTING SS/SW MANHOLE (TOPO)
EXISTING SS/SW MANHOLE (GIS)
PR PUBLIC SS/SW MANHOLE
PR PRIVATE SS/SW MANHOLE
EXISTING SS/SW LHCE
PROPOSED SS/SW LHCE
EXISTING WATER MAIN
PROPOSED WATER MAIN
EXISTING/PROPOSED VALVE
EXISTING/PROPOSED HYDRANT
EX/PROPOSED WATER METER
ABANDONED SERVICE

UTILITIES LEGEND

GAS
U/G POWER
O/H POWER / TROLLEY WIRE
TELECOMMS / CHORUS
POLE

ROADING LEGEND

100mm WIDE CONTINUOUS WHITE EDGE LINE/SOLID CENTRELINE
GIVE WAY LIMIT LINE 300mm WIDE REFLECTORISED WHITE
REFLECTORISED WHITE CONTINUITY LINE 1m STRIP, 3m GAP, 100mm WIDE
150mm WIDE REFLECTORISED WHITE HOLDING LINE
200mm WIDE REFLECTORISED WHITE HOLDING LINE
600mm WIDE FLUSH MEDIAN REFLECTORISED WHITE BARS
100mm WIDE REFLECTORISED WHITE CONTINUOUS CENTRELINE 3m STRIP, 7m GAP
NO STOPPING AT ALL TIMES (NSAAT), 100mm WIDE REFLECTORISED YELLOW, 1m STRIP, 1m GAP
200mm WIDE REFLECTORISED WHITE LINE
100mm WIDE REFLECTORISED YELLOW LINE
100mm WIDE YELLOW NO-OVERTAKING LINE
STOP LIMIT LINE 300mm WIDE REFLECTORISED YELLOW
SWALE DRAIN
DISH CHANNEL
EXISTING RETAINING WALL
PROPOSED RETAINING WALL

GENERAL LEGEND

EXISTING MAJOR CONTOURS (100.0)
EXISTING MINOR CONTOURS
PROPOSED MAJOR CONTOURS (100.0)
PROPOSED MINOR CONTOURS
EXISTING SITE BOUNDARY
PROPOSED SITE BOUNDARY
PROPOSED CULVERT
EXISTING CULVERT

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100
A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

FOR APPROVAL
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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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Original Scale (A1) AS SHOWN
Reduced Scale (A3) 1/2 SHOWN

Design	JD	26.02.13	Approved For Issue*
Drawn	ZF	26.02.13	
Dsg Verifier	JM	26.02.13	
Dwg Check	JM	26.02.13	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: LEGEND & GENERAL NOTES (CIVIL ENGINEERING SET)

Discipline: CIVIL

Vecta Ref. No. 26014 | Drawing No. C002 | Rev. C

Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\60 CAD\AUTOCAD\RESOURCE CONSENT - STAGE 3

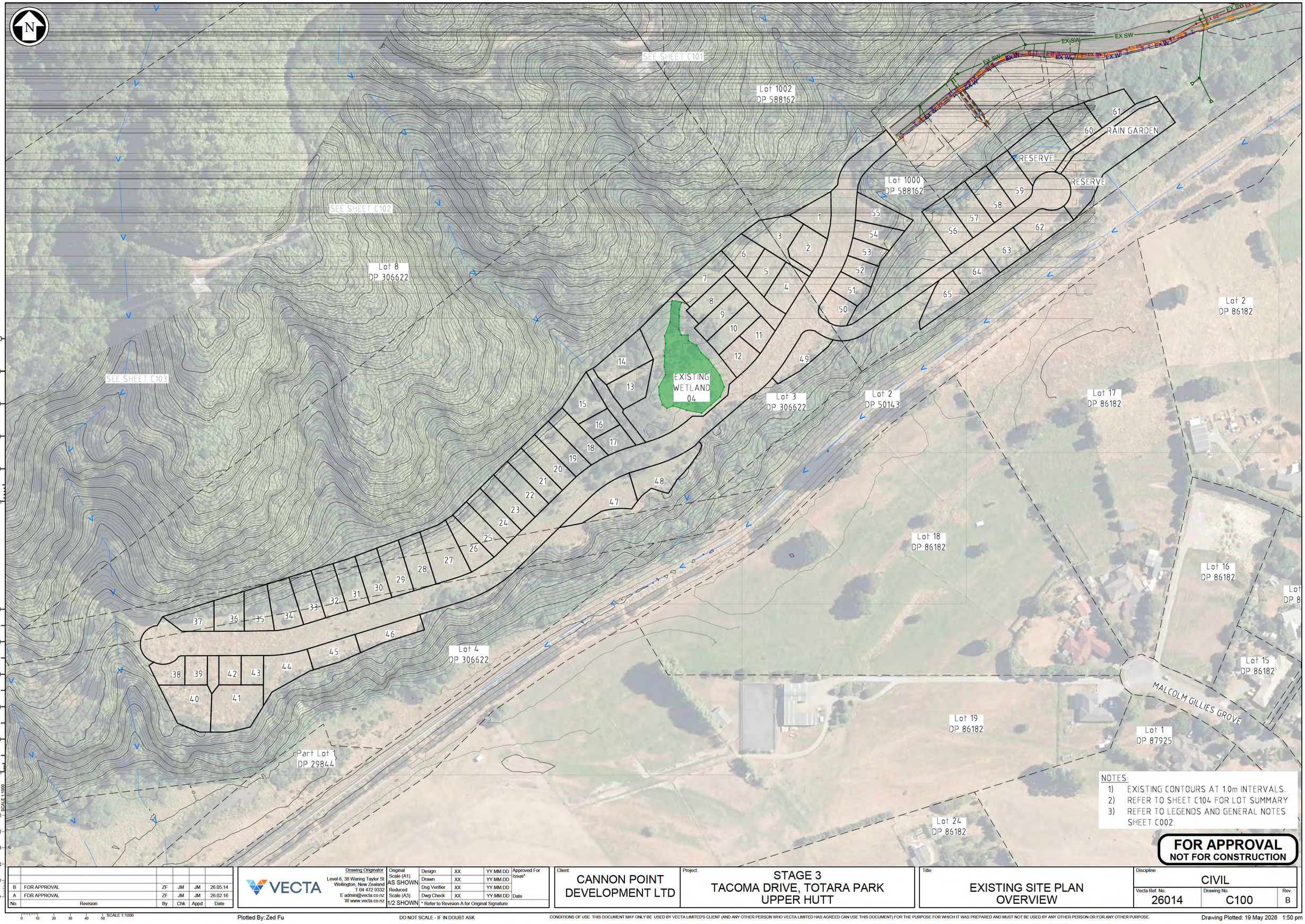
Document No. 26014-C000-COVER SHEET.DWG

Plotted By: Zed Fu

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Drawing Plotted: 19 May 2026 1:57 pm



A1 REPRODUCTION SCALE
0mm 100 80 60 40 20

A3 REPRODUCTION SCALE
0mm 50 40 30 20 10

SCALE 1:1000
0 10 20 30 40 50

NOTES:
1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO SHEET C104 FOR LOT SUMMARY
3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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No.	Revision	By	Chk	Appd	Date
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Reduced Scale (A3)	1/2 SHOWN	Drawn	XX	YY.MM.DD
		Dsg Verifier	XX	YY.MM.DD
		Dwg Check	XX	YY.MM.DD

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EXISTING SITE PLAN OVERVIEW

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C100	B

Plotted By: Zed Fu

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NOTES:

1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO SHEET C104 FOR LOT SUMMARY
3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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NOT FOR CONSTRUCTION

A1 REPRODUCTION SCALE 0 20 40 60 80 100
A3 REPRODUCTION SCALE 0 10 20 30 40 50
SCALE 1:500 0 10 20

No.	Revision	By	Chk	Appd	Date
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Reduced Scale (A3)	1/2 SHOWN	Drawn	XX YY.MM.DD
		Dsg Verifier	XX YY.MM.DD
		Dwg Check	XX YY.MM.DD

Approved For Issue* Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EXISTING SITE PLAN SHEET 1

Discipline		
CIVIL		
Vecta Ref. No.	Drawing No.	Rev.
26014	C101	B

Plotted By: Zed Fu

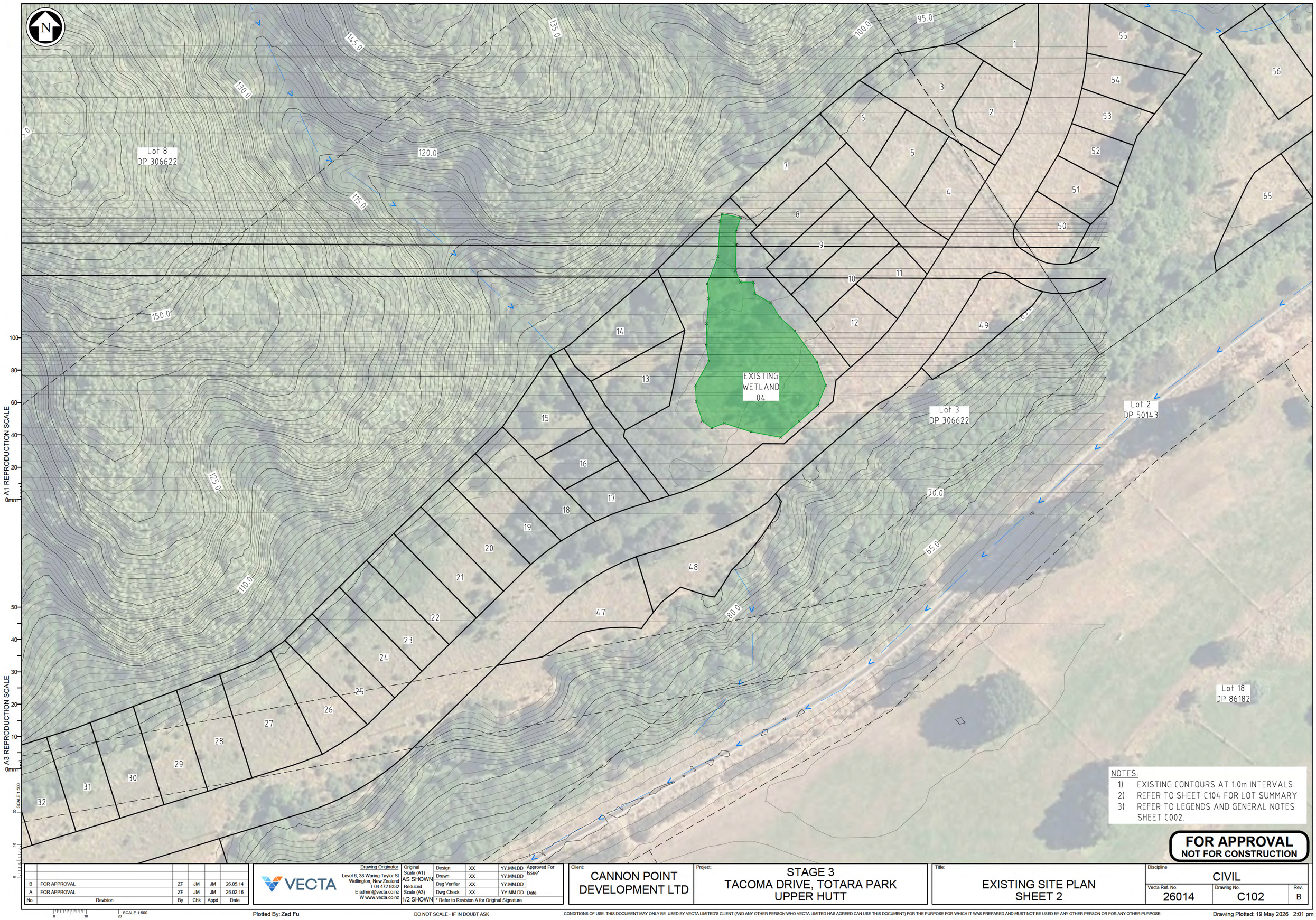
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Document No. 26014-C100-EX SITE PLAN.DWG



A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

NOTES:

1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO SHEET C104 FOR LOT SUMMARY
3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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No.	Revision	By	Chk	Appd	Date
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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		Dsg Verifier	XX	YY.MM.DD
		Dwg Check	XX	YY.MM.DD

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EXISTING SITE PLAN SHEET 2

Discipline		
CIVIL		
Vecta Ref. No.	Drawing No.	Rev.
26014	C102	B

SCALE 1:500

Plotted By: Zed Fu

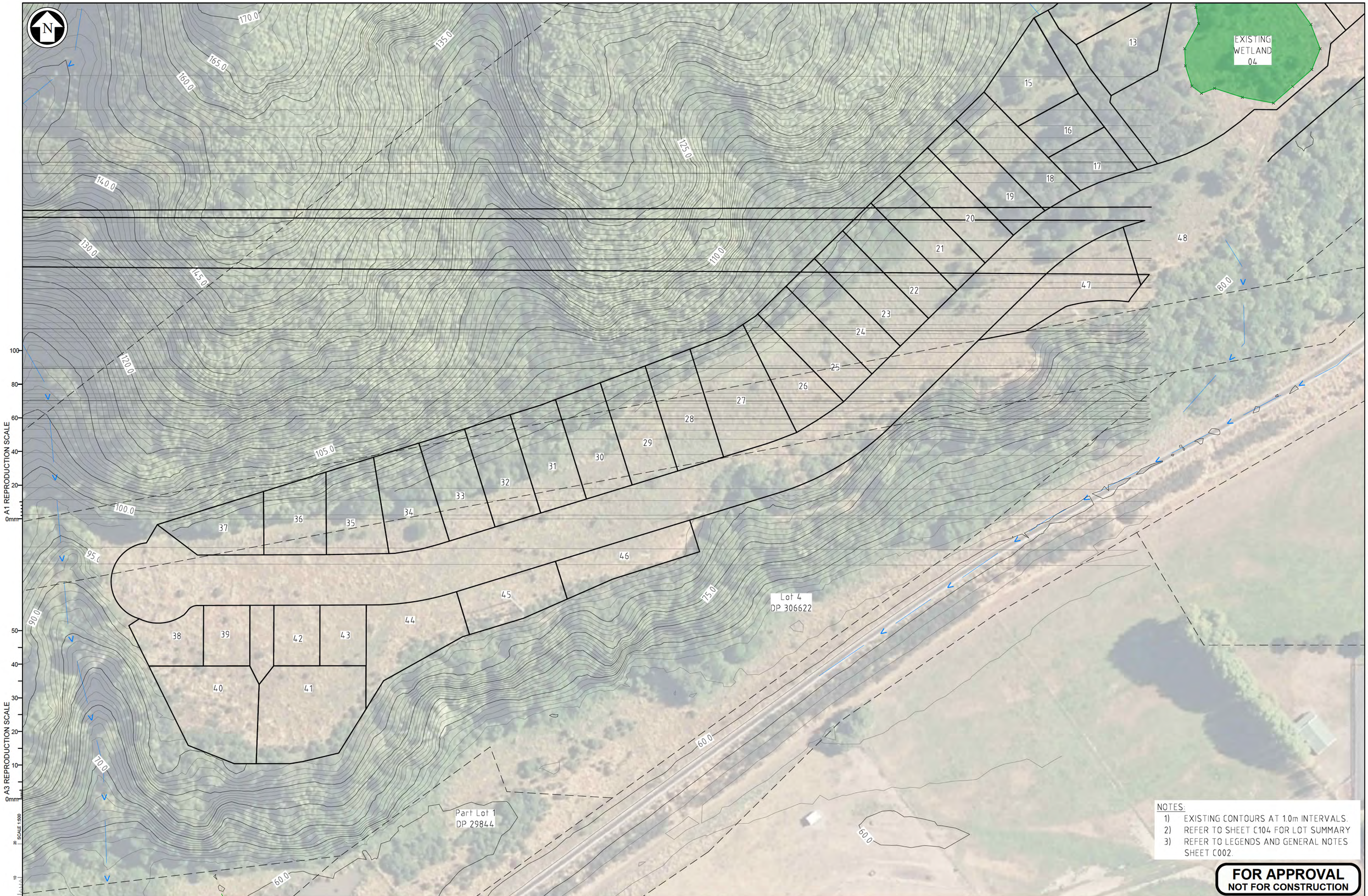
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Document No. 26014-C100-EX SITE PLAN.DWG



NOTES:

1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO SHEET C104 FOR LOT SUMMARY
3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Reduced Scale (A3)	1/2 SHOWN	
Design	XX	YY.MM.DD
Drawn	XX	YY.MM.DD
Dsg Verifier	XX	YY.MM.DD
Dwg Check	XX	YY.MM.DD

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EXISTING SITE PLAN SHEET 3

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C103	C

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Document No. 26014-C100-EX SITE PLAN.DWG

SCALE 1:500

Plotted By: Zed Fu

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Drawing Plotted: 19 May 2026 2:00 pm

SEE SHEET C115
SEE SHEET C111
SEE SHEET C112
SEE SHEET C113
SEE SHEET C114
Lot 1002 DP 588162
Lot 1000 DP 588162
Lot 8 DP 306622
Lot 4 DP 306622
Lot 3 DP 306622
Lot 2 DP 50143
Part Lot 1 DP 29844
Lot 2 DP 86182
Lot 17 DP 86182
Lot 18 DP 86182
Lot 16 DP 86182
Lot 15 DP 86182
Lot 19 DP 86182
Lot 1 DP 87925
Lot 24 DP 86182
RESERVE
RESERVE
RAIN GARDEN
EXISTING WETLAND 04
ROAD 01
ROAD 02
Road 1
Road 2
Road 3
ROW 01
ROW 02
ROW 03
ROW 04
MALCOLM GILLIES GROVE

NOTES:
1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO SHEET C104 FOR LOT SUMMARY

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A1 REPRODUCTION SCALE
A3 REPRODUCTION SCALE
SCALE 1:1000
0 10 20 30 40 50 SCALE 1:1000

No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
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Original Scale (A1)	AS SHOWN	Design	XX YY.MM.DD
Reduced Scale (A3)	1/2 SHOWN	Drawn	XX YY.MM.DD
		Dsg Verifier	XX YY.MM.DD
		Dwg Check	XX YY.MM.DD

Approved For Issue* Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: PROPOSED SITE PLAN OVERVIEW

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C110	C

Plotted By: Zed Fu

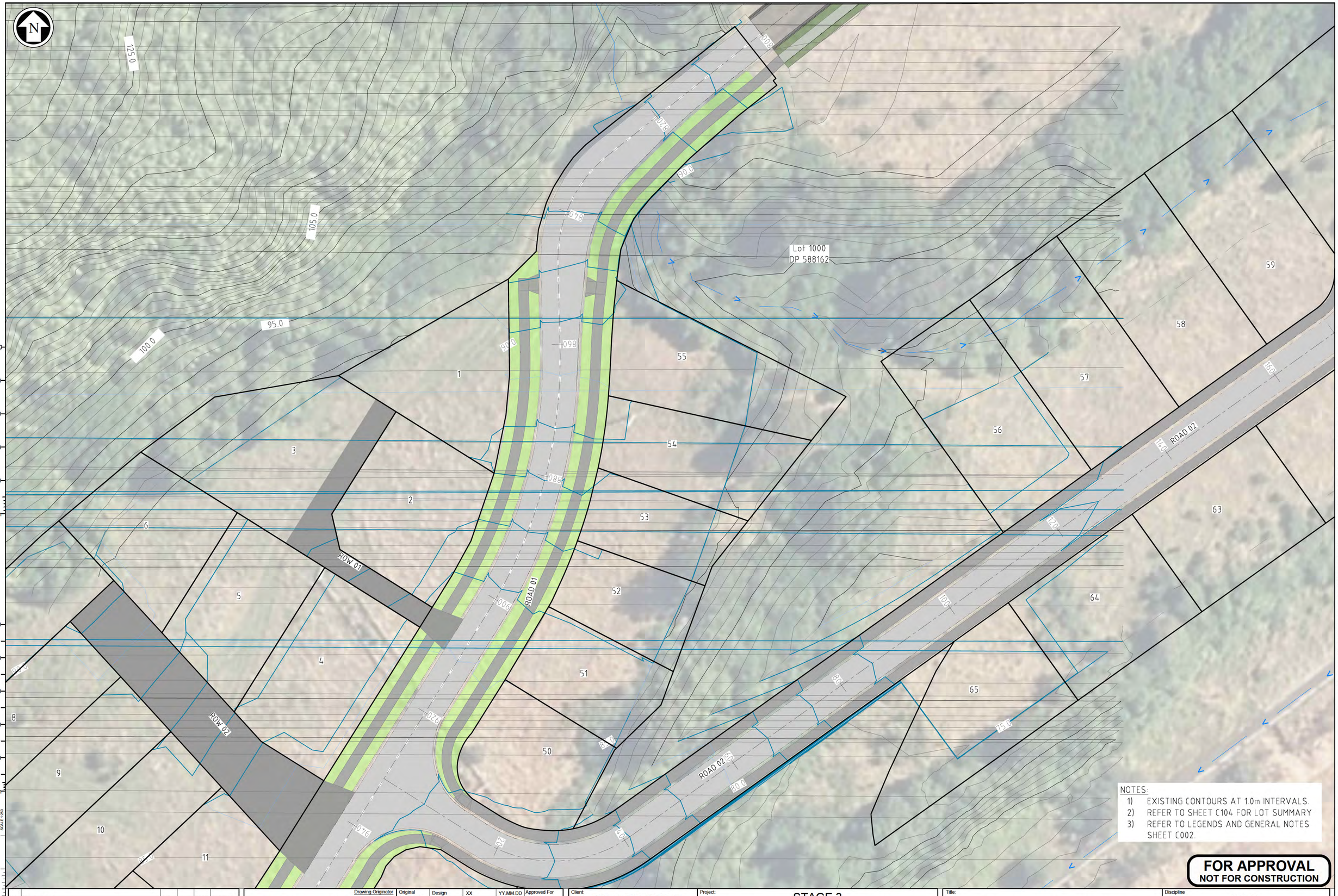
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Document No. 26014-C110-PROPOSED SITE PLAN.DWG



NOTES:

1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO SHEET C104 FOR LOT SUMMARY
3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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Original Scale (A1)	AS SHOWN	
Reduced Scale (A3)	1/2 SHOWN	

Design	XX	YY.MM.DD
Drawn	XX	YY.MM.DD
Dsg Verifier	XX	YY.MM.DD
Dwg Check	XX	YY.MM.DD

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: PROPOSED SITE PLAN SHEET 1

Discipline: CIVIL

Vecta Ref. No.: 26014

Drawing No.: C111

Rev.: C

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100

A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

SCALE 1:250 0 5 10

Plotted By: Zed Fu

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Drawing Plotted: 19 May 2026 1:53 pm

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Document No. 26014-C110-PROPOSED SITE PLAN.DWG

N

A1 REPRODUCTION SCALE
100 80 60 40 20 0mm

A3 REPRODUCTION SCALE
50 40 30 20 10 0mm

SCALE 1:250
10 5 0

5
7
8
9
10
11
12
13
14
15
16
17
18
19
4
49
50
51
52

ROW 01
ROW 02
ROW 03
ROAD 01
ROAD 02

EXISTING WETLAND 04

Lot 3 DP 306622
Lot 2 DP 50143

70.0
65.0

NOTES:
1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO SHEET C104 FOR LOT SUMMARY
3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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Reduced Scale (A3)	1/2 SHOWN		
Design	XX	YY.MM.DD	Approved For Issue*
Drawn	XX	YY.MM.DD	
Dsg Verifier	XX	YY.MM.DD	
Dwg Check	XX	YY.MM.DD	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: PROPOSED SITE PLAN SHEET 2

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C112	C

Plotted By: Zed Fu

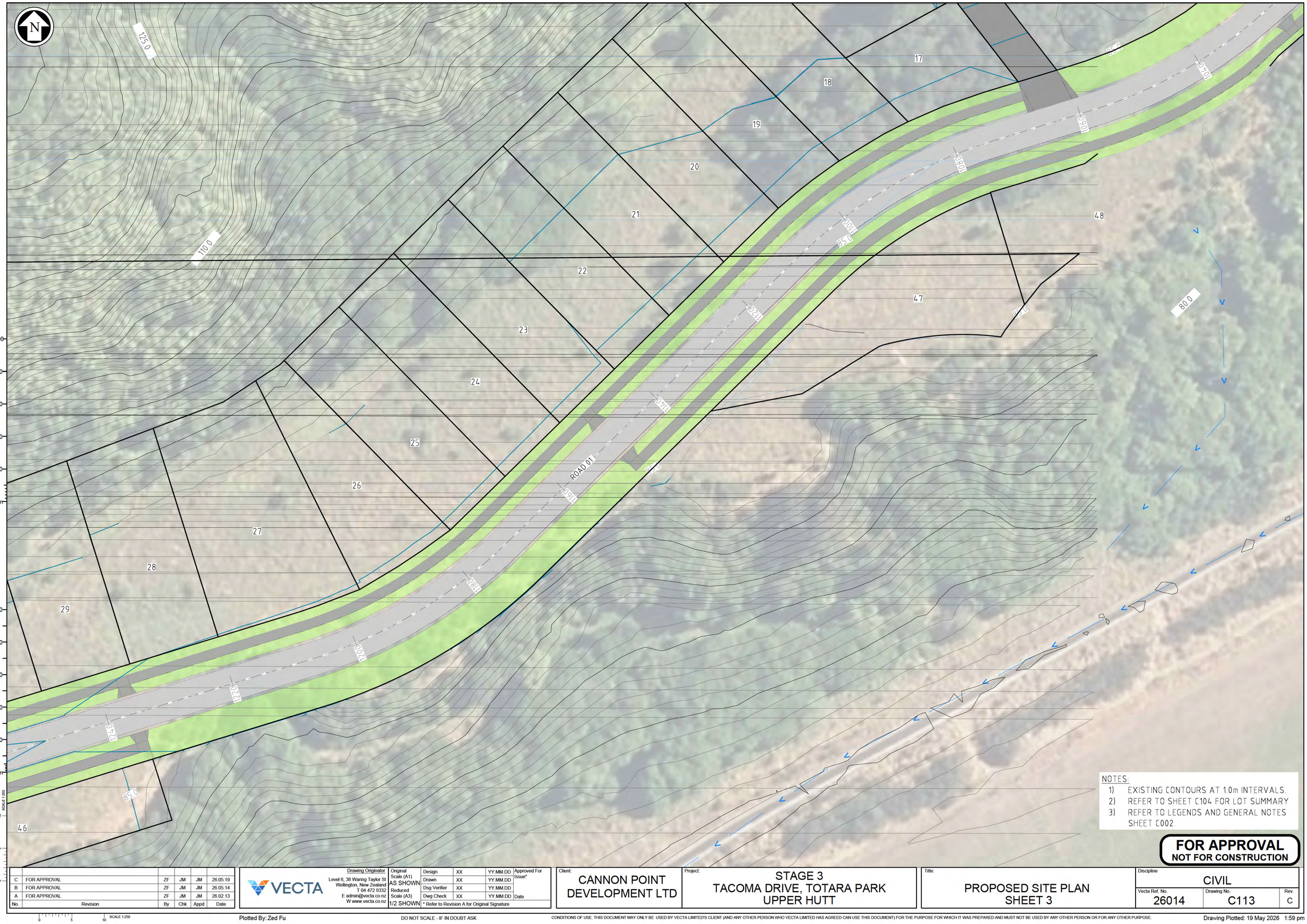
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Document No. 26014-C110-PROPOSED SITE PLAN.DWG



A1 REPRODUCTION SCALE
100 80 60 40 20 0mm

A3 REPRODUCTION SCALE
50 40 30 20 10 0mm

SCALE 1:250
10 5 0

SCALE 1:250
0 5 10

NOTES:
1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO SHEET C104 FOR LOT SUMMARY
3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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Reduced Scale (A3)	1/2 SHOWN	

Design	XX	YY.MM.DD
Drawn	XX	YY.MM.DD
Dsg Verifier	XX	YY.MM.DD
Dwg Check	XX	YY.MM.DD

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: PROPOSED SITE PLAN SHEET 3

Discipline: CIVIL

Vecta Ref. No.: 26014

Drawing No.: C113

Rev.: C

Plotted By: Zed Fu

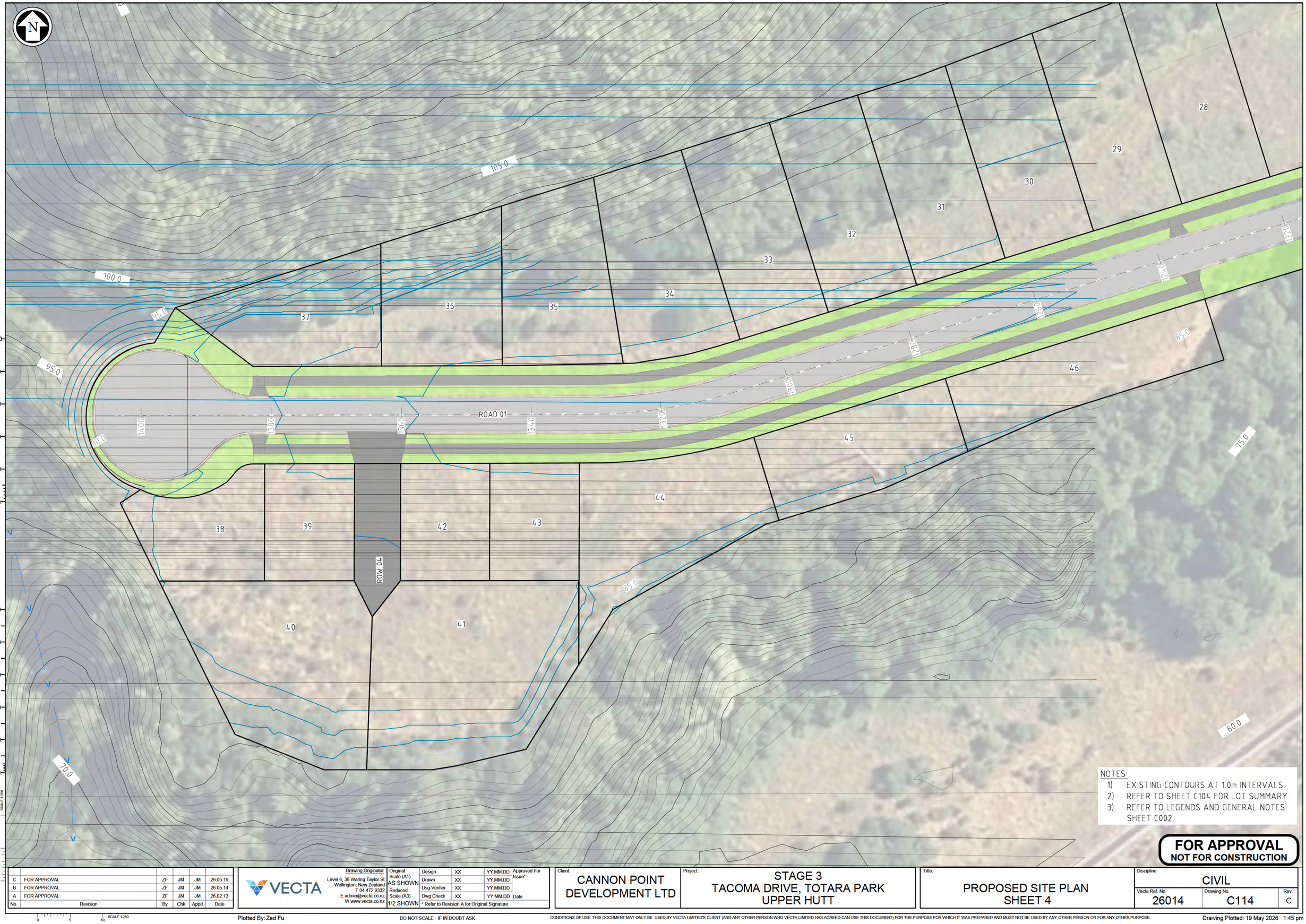
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Document No. 26014-C110-PROPOSED SITE PLAN.DWG



A1 REPRODUCTION SCALE 100 80 60 40 20 0mm

A3 REPRODUCTION SCALE 50 40 30 20 10 0mm

SCALE 1:250 10 5 0

NOTES:

1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO SHEET C104 FOR LOT SUMMARY
3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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Reduced Scale (A3)	1/2 SHOWN	Drawn	XX	YY.MM.DD	
		Dsg Verifier	XX	YY.MM.DD	
		Dwg Check	XX	YY.MM.DD	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: PROPOSED SITE PLAN SHEET 4

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C114	C

Plotted By: Zed Fu

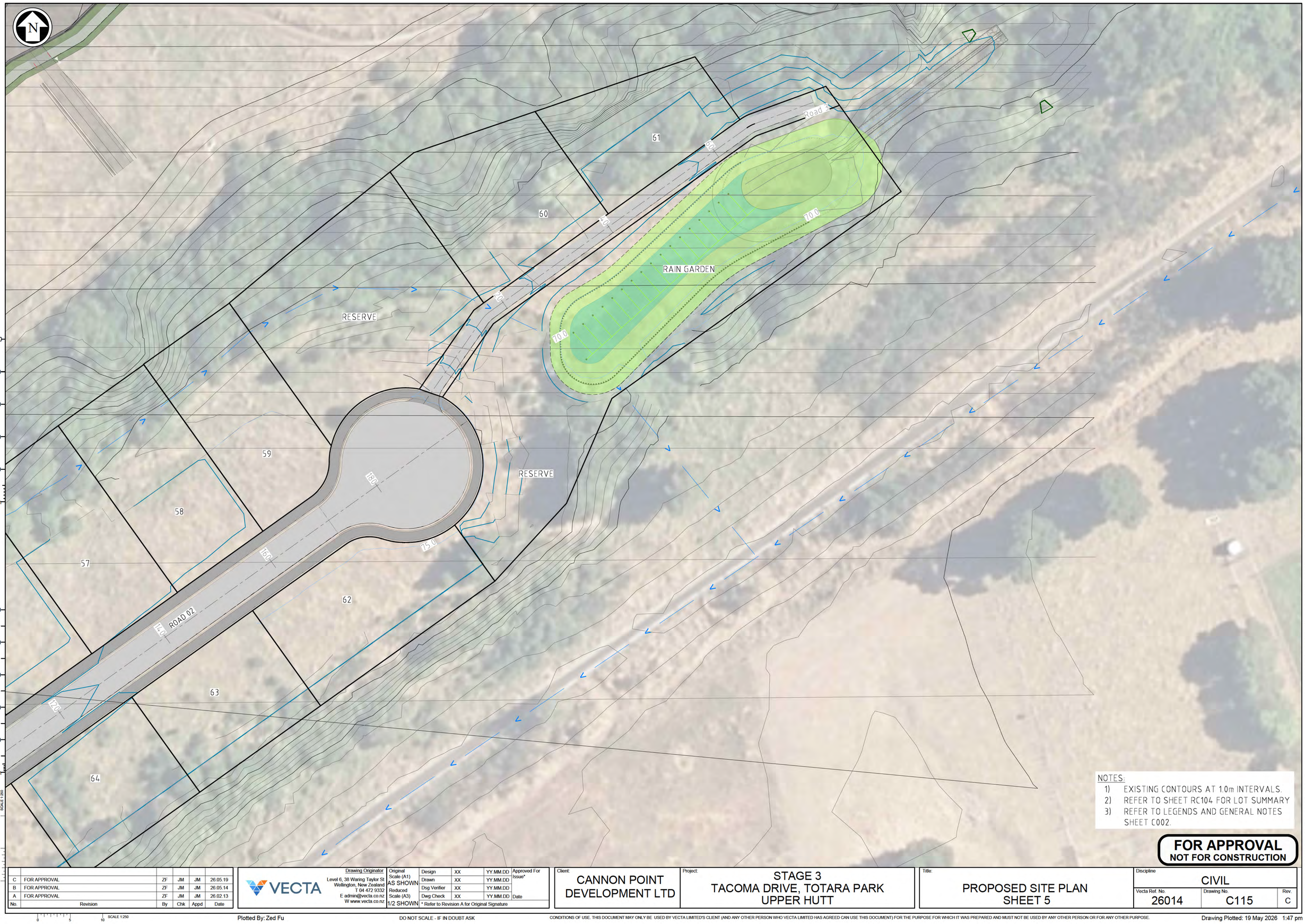
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Document No. 26014-C110-PROPOSED SITE PLAN.DWG



NOTES:

1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO SHEET RC104 FOR LOT SUMMARY
3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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		Dsg Verifier	XX YY.MM.DD
		Dwg Check	XX YY.MM.DD

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: PROPOSED SITE PLAN SHEET 5

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C115	C

Plotted By: Zed Fu

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Document No. 26014-C110-PROPOSED SITE PLAN.DWG

SEE SHEET C201

SEE SHEET C202

SEE SHEET C203

Lot 1002
DP 588162

Lot 1000
DP 588162

Lot 8
DP 306622

Lot 3
DP 306622

Lot 2
DP 50143

Lot 4
DP 306622

Part Lot 1
DP 29844

Lot 2
DP 86182

Lot 17
DP 86182

Lot 18
DP 86182

Lot 16
DP 86182

Lot 15
DP 86182

Lot 19
DP 86182

Lot 1
DP 87925

Lot 21
DP 86182

Lot 24
DP 86182

EXISTING WETLAND 04

ROAD 01

ROAD 02

MALCOLM GILLIES GROVE

A 204

B 204

C 204

D 204

E 204

A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

SCALE 1:1000
0 10 20 30 40 50 SCALE 1:1000

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12

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Design	JD	26.02.12	Approved For Issue*
Drawn	ZF	26.02.12	
Dsg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: BULK EARTHWORKS PLAN OVERVIEW STAGE 3

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C200	C

Plotted By: Zed Fu

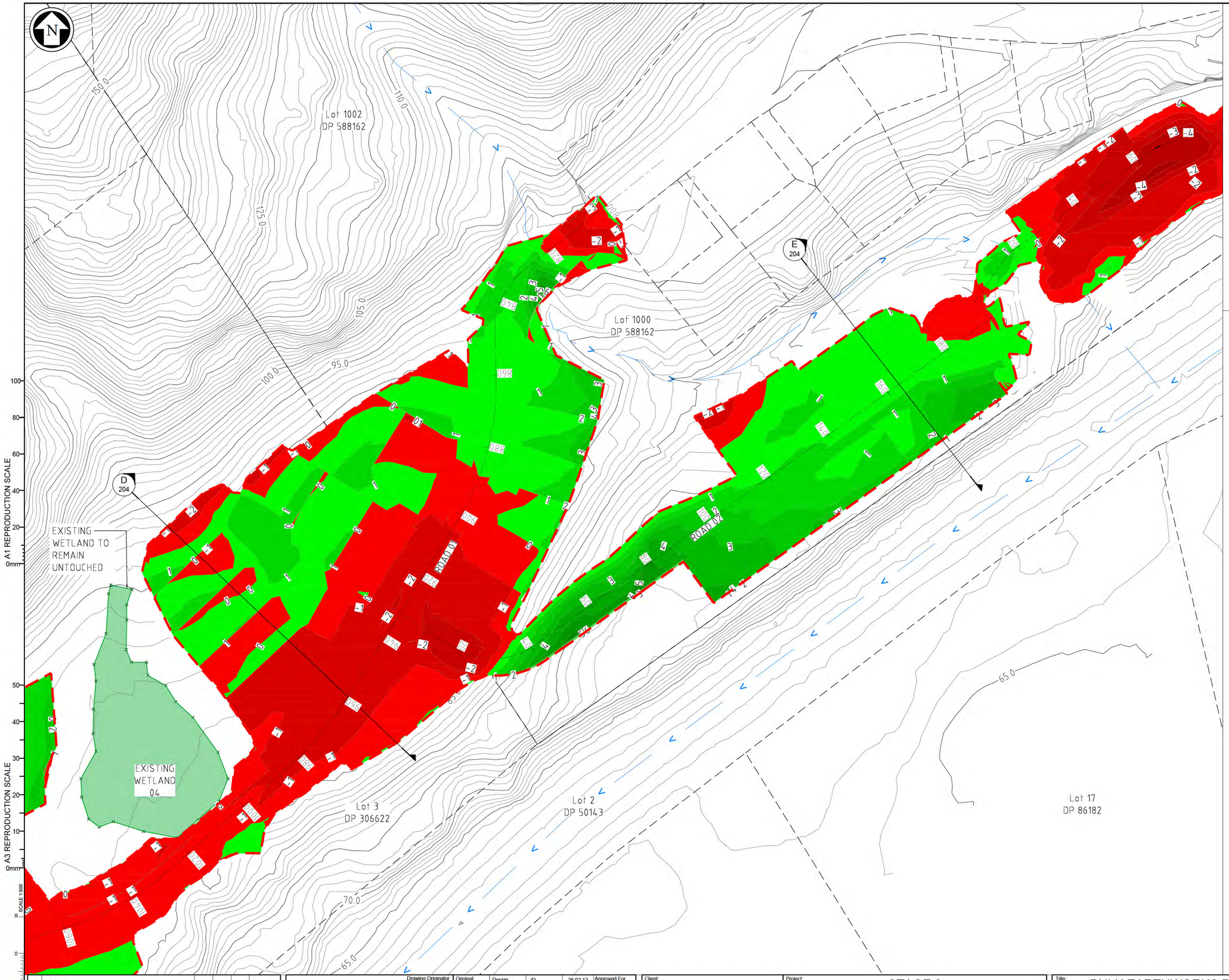
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Document No. 26014-C200-EARTHWORKS.DWG



A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

SCALE 1:500
0 10 20

BULK EARTHWORKS:

CUT = 15,938m³
FILL = 25,611m³
EXCESS FILL OVER CUT = 9,673m³

CUT AREA = 13,951m²
FILL AREA = 21,807m²
TOTAL EARTHWORKS AREA = 35,758m²

MAXIMUM CUT HEIGHT = 7m
MAXIMUM FILL HEIGHT = 7m

BULK EARTHWORKS NOTES:

1) VOLUMES BASED ON EXISTING GROUND LEVELS TO DESIGN FINISHED LEVELS.
2) TOPSOIL NOT ALLOWED FOR.
3) PAVEMENT SUBGRADE NOT ALLOWED FOR.
4) BULKING FACTORS NOT ALLOWED FOR.

NOTES:

1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) DEPTH CONTOURS AT 1.0m INTERVALS.

DEPTH RANGE KEY

Lower_value		Upper_value		Colour
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
-3	to	-2	m	
-2	to	-1	m	
-1	to	0	m	
0	to	1	m	
1	to	2	m	
2	to	3	m	
3	to	4	m	
4	to	5	m	
5	to	6	m	
6	to	7	m	

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12

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Reduced Scale (A3)	1/2 SHOWN		
Design	JD	26.02.12	Approved For Issue*
Drawn	ZF	26.02.12	
Dsg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: BULK EARTHWORKS PLAN STAGE 3 SHEET 1

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C201	C

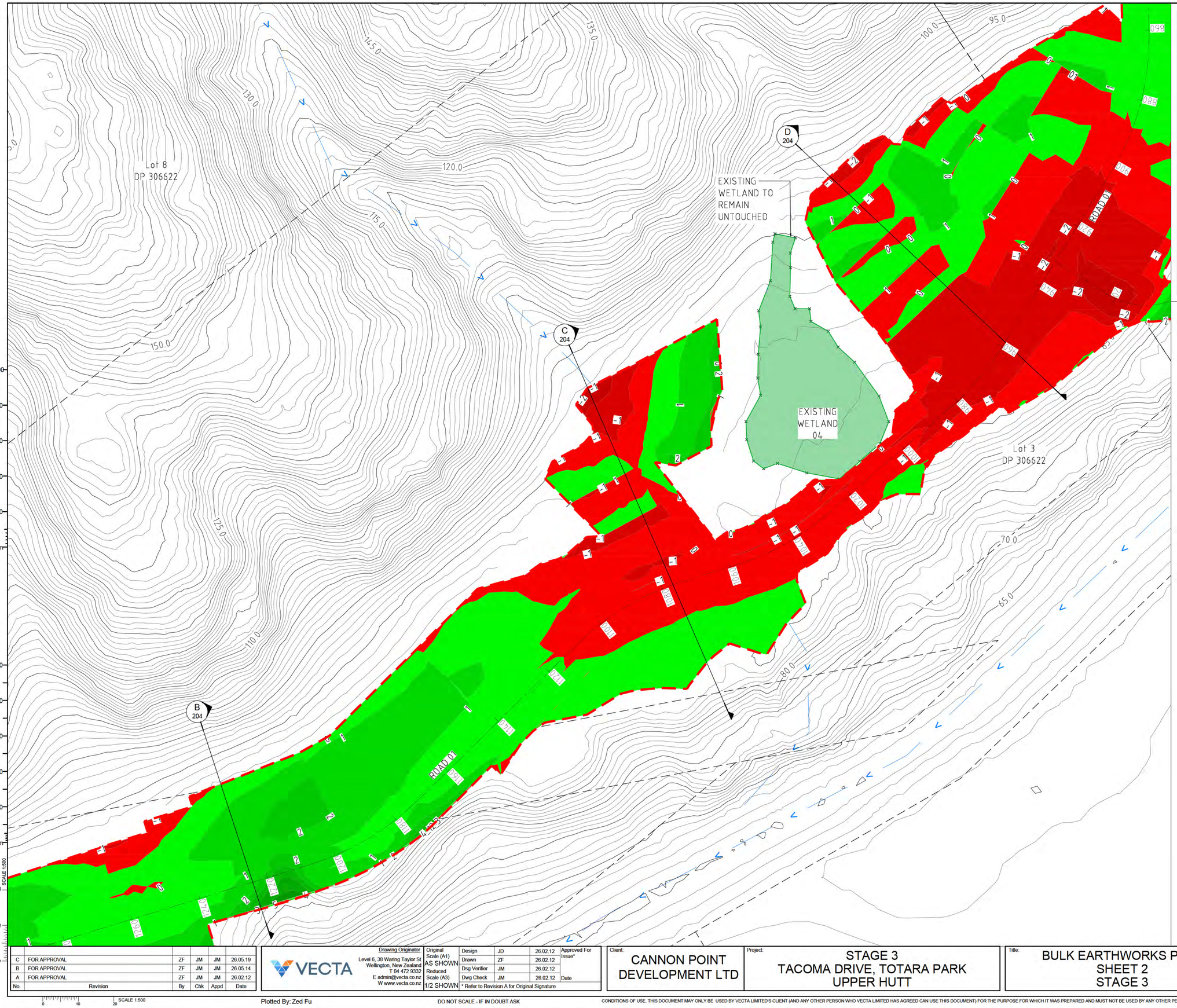
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BULK EARTHWORKS:

CUT = 15,938m³
FILL = 25,611m³
EXCESS FILL OVER CUT = 9,673m³

CUT AREA = 13,951m²
FILL AREA = 21,807m²
TOTAL EARTHWORKS AREA = 35,758m²

MAXIMUM CUT HEIGHT = 7m
MAXIMUM FILL HEIGHT = 7m

BULK EARTHWORKS NOTES:

1) VOLUMES BASED ON EXISTING GROUND LEVELS TO DESIGN FINISHED LEVELS.
2) TOPSOIL NOT ALLOWED FOR.
3) PAVEMENT SUBGRADE NOT ALLOWED FOR.
4) BULKING FACTORS NOT ALLOWED FOR.

NOTES:

1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) DEPTH CONTOURS AT 1.0m INTERVALS.

DEPTH RANGE KEY

Lower_value		Upper_value		Colour
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
-3	to	-2	m	
-2	to	-1	m	
-1	to	0	m	
0	to	1	m	
1	to	2	m	
2	to	3	m	
3	to	4	m	
4	to	5	m	
5	to	6	m	
6	to	7	m	

A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

SCALE 1:500
0 10 20

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12

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		Dsg Verifier	JM	26.02.12
		Dwg Check	JM	26.02.12

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: BULK EARTHWORKS PLAN
SHEET 2
STAGE 3

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C202	C

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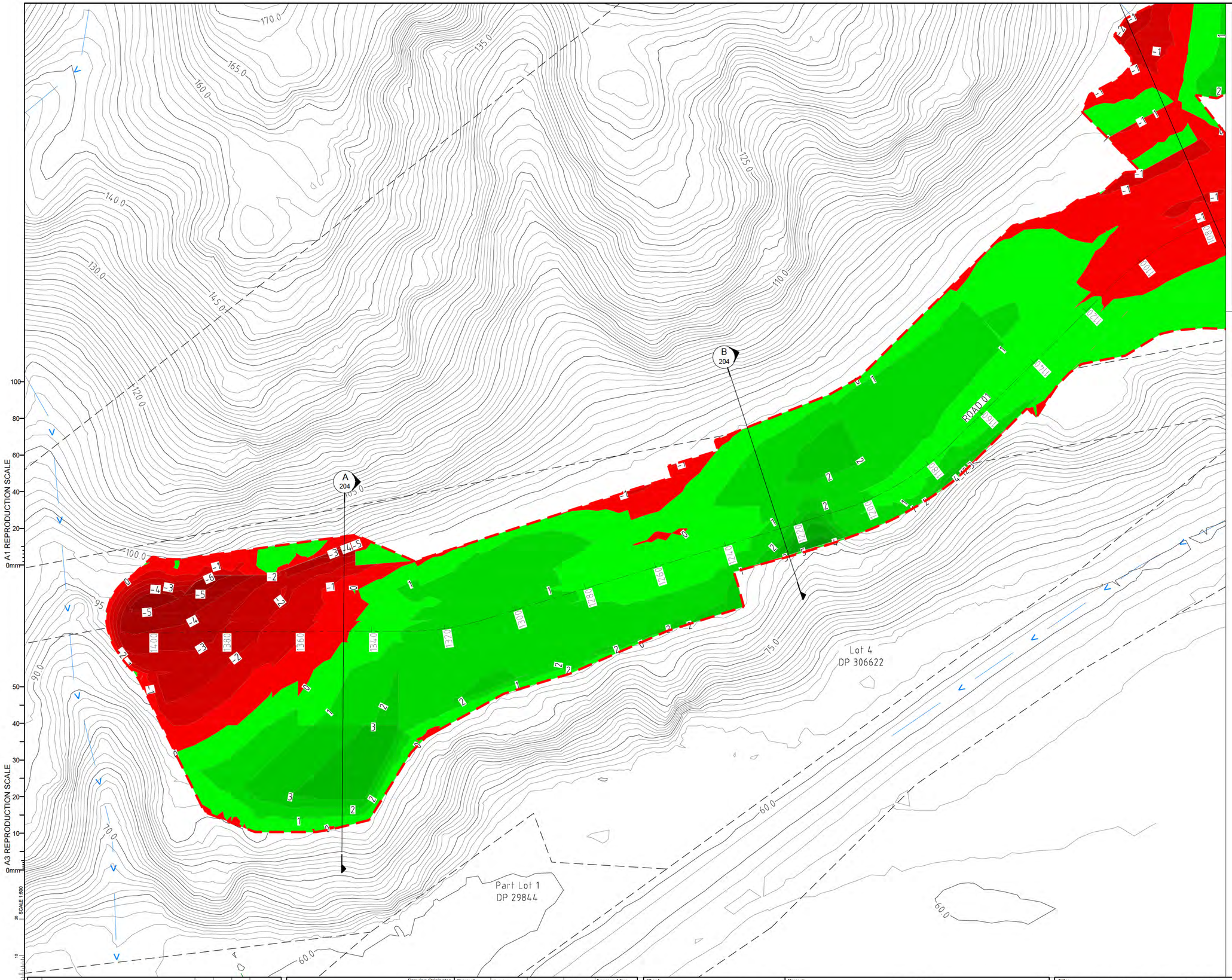
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BULK EARTHWORKS:
CUT = 15,938m³
FILL = 25,611m³
EXCESS FILL OVER CUT = 9,673m³

CUT AREA = 13,951m²
FILL AREA = 21,807m²
TOTAL EARTHWORKS AREA = 35,758m²

MAXIMUM CUT HEIGHT = 7m
MAXIMUM FILL HEIGHT = 7m

BULK EARTHWORKS NOTES:

1) VOLUMES BASED ON EXISTING GROUND LEVELS TO DESIGN FINISHED LEVELS.
2) TOPSOIL NOT ALLOWED FOR.
3) PAVEMENT SUBGRADE NOT ALLOWED FOR.
4) BULKING FACTORS NOT ALLOWED FOR.

NOTES:
1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) DEPTH CONTOURS AT 1.0m INTERVALS.

DEPTH RANGE KEY

Lower_value		Upper_value		Colour
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
-3	to	-2	m	
-2	to	-1	m	
-1	to	0	m	
0	to	1	m	
1	to	2	m	
2	to	3	m	
3	to	4	m	
4	to	5	m	
5	to	6	m	
6	to	7	m	

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12

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Reduced Scale (A3)	1/2 SHOWN	Drawn	ZF 26.02.12
		Dsg Verifier	JM 26.02.12
		Dwg Check	JM 26.02.12 Date

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* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: BULK EARTHWORKS PLAN
SHEET 3
STAGE 3

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C203	C

A1 REPRODUCTION SCALE 0mm 100 80 60 40 20
A3 REPRODUCTION SCALE 0mm 50 40 30 20 10
SCALE 1:500 0 10 20 SCALE 1:500

Plotted By: Zed Fu

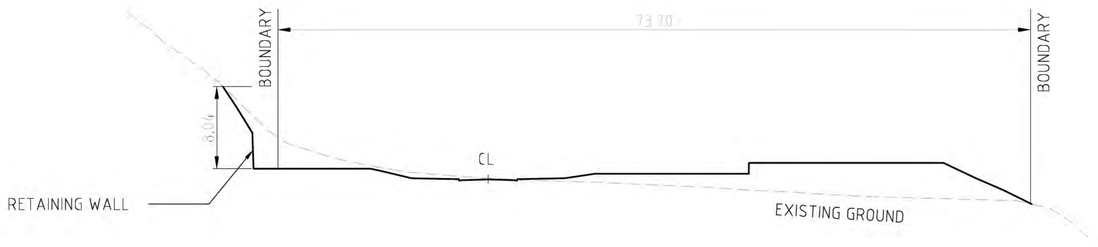
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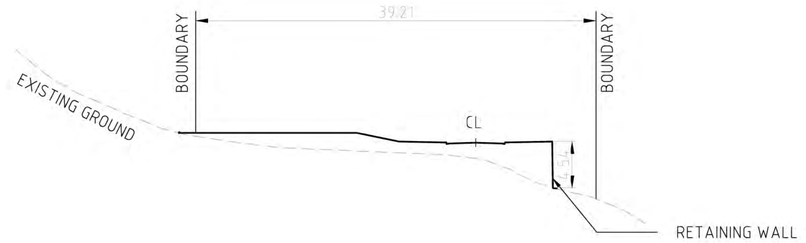
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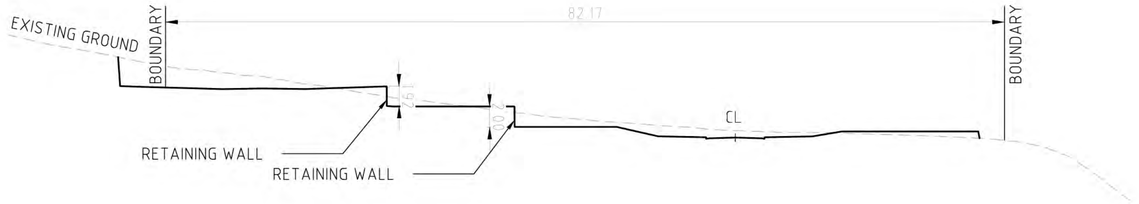
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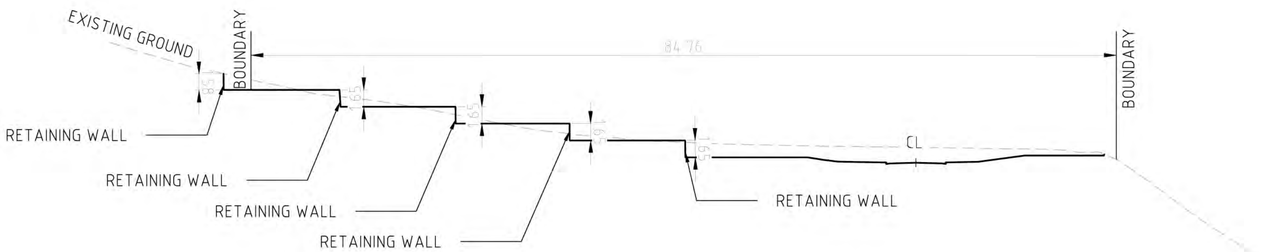
CROSS SECTION A-A
1:300



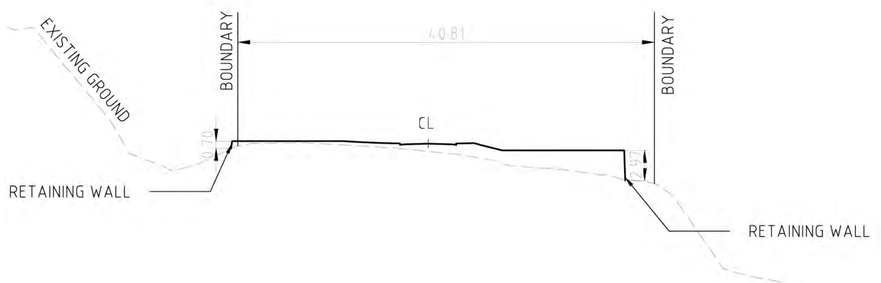
CROSS SECTION B-B
1:300



CROSS SECTION C-C
1:300



CROSS SECTION D-D
1:300



CROSS SECTION E-E
1:300

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12

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		Dsg Verifier	JM	26.02.12
Reduced Scale (A3)	1/2 SHOWN	Dwg Check	JM	26.02.12

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Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: SECTIONS - SHEET 1

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C204	C

Document No. 26014-C200-EARTHWORKS.DWG

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A1 REPRODUCTION SCALE 0 20 40 60 80 100 mm

A3 REPRODUCTION SCALE 0 10 20 30 40 50 mm

SCALE 1:300 0 4 8 12

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SEE SHEET C211

SEE SHEET C212

SEE SHEET C213

EXISTING BIORETENTION SYSTEM

STABILISED ENTRANCE WAY

ROAD 01

ROAD 02

EXISTING WETLAND

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13

Lot 8 DP 306622

Lot 2 DP 86182

Lot 2 DP 50143

Lot 17 DP 86182

Lot 3 DP 306622

Lot 18 DP 86182

Lot 4 DP 306622

Lot 19 DP 86182

Lot 1 DP 87925

Lot 24 DP 86182

Part Lot 1 DP 29844

A1 REPRODUCTION SCALE 0mm 100 80 60 40 20

A3 REPRODUCTION SCALE 0mm 50 40 30 20 10

SCALE 1:1000 0 10 20 30 40 50

EARTHWORKS CATCHMENTS	
CATCHMENT ID	AREA (m^2)
C1	2,600m^2
C2	2,860m^2
C3	3,090m^2
C4	2,880m^2
C5	2,200m^2
C6	2,850m^2
C7	2,960m^2
C8	2,300m^2
C9	3,000m^2
C10	2,510m^2
C11	3,000m^2
C12	2,740m^2
C13	2,680m^2

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12

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		Drawn	ZF	26.02.12	
		Dsg Verifier	JM	26.02.12	
Reduced Scale (A3)	1/2 SHOWN	Dwg Check	JM	26.02.12	Date

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Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EROSION AND SEDIMENT CONTROL PLAN OVERVIEW STAGE 3

Discipline: CIVIL

Vecta Ref No. 26014 | Drawing No. C210 | Rev. C

Plotted By: Zed Fu

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Document No. 26014-C210-ESCP.DWG

N

EXISTING BIORETENTION SYSTEM

STABILISED ENTRANCE WAY

ROAD 01

ROAD 02

C1

C2

C3

C4

C5

C6

C7

EXISTING WETLAND

Lot 2 DP 50143

Lot 3 DP 306622

Lot 17 DP 86182

EARTHWORKS CATCHMENTS	
CATCHMENT ID	AREA (m^2)
C1	2,600m^2
C2	2,860m^2
C3	3,090m^2
C4	2,880m^2
C5	2,200m^2
C6	2,850m^2
C7	2,960m^2
C8	2,300m^2
C9	3,000m^2
C10	2,510m^2
C11	3,000m^2
C12	2,740m^2
C13	2,680m^2

FOR APPROVAL
NOT FOR CONSTRUCTION

A1 REPRODUCTION SCALE 0mm 0 20 40 60 80 100

A3 REPRODUCTION SCALE 0mm 0 10 20 30 40 50

SCALE 1:500 0 10 20

No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12

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Reduced Scale (A3)	1/2 SHOWN	Dsg Verifier	JM	26.02.12
		Dwg Check	JM	26.02.12

Approved For Issue*
Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EROSION AND SEDIMENT CONTROL PLAN - SHEET 1 STAGE 3

Discipline: CIVIL

Vecta Ref. No. 26014 | Drawing No. C211 | Rev. C

Plotted By: Zed Fu

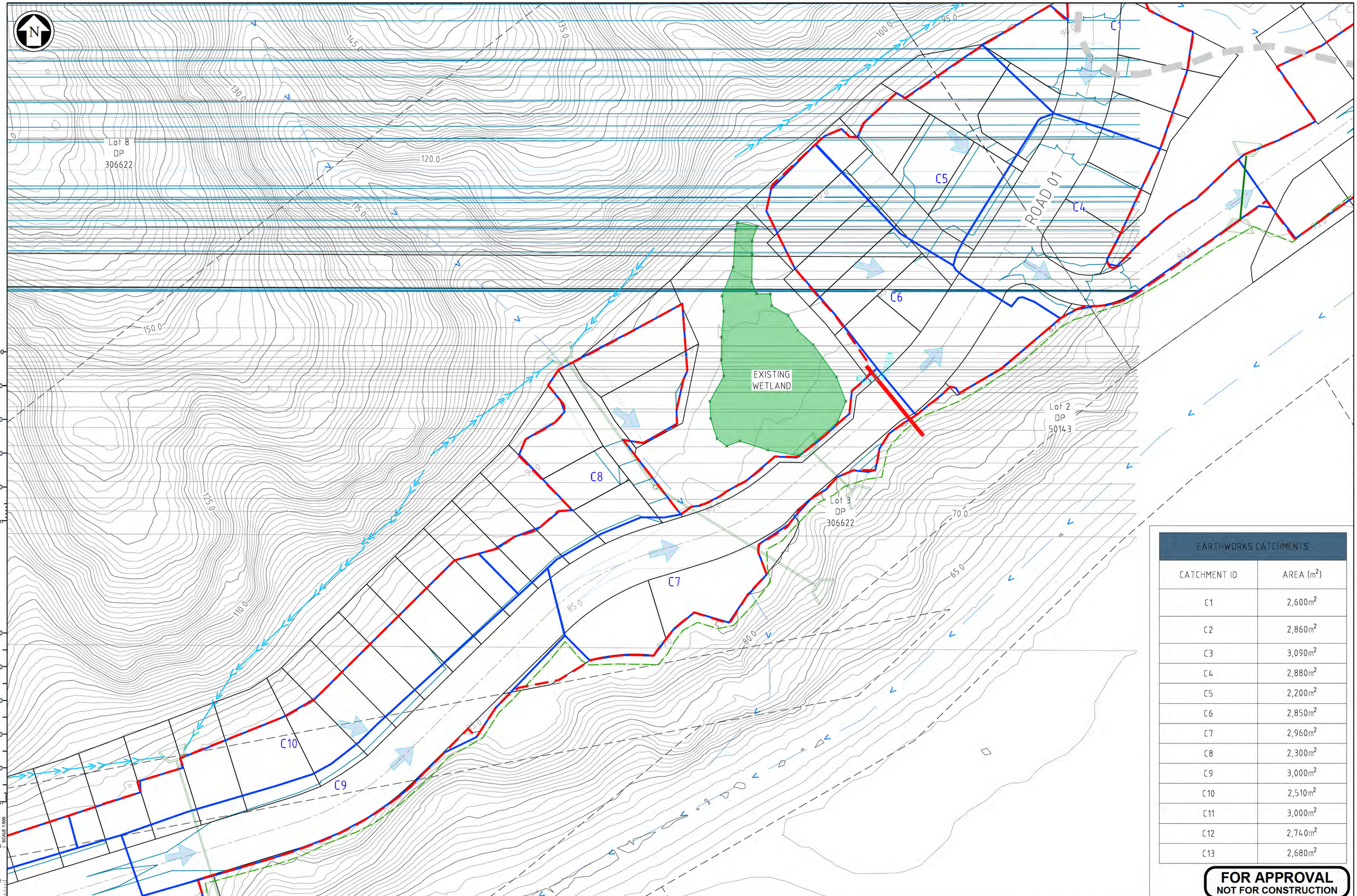
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Document No. 26014-C210-ESCP.DWG



A1 REPRODUCTION SCALE
0 10 20 40 60 80 100mm

A3 REPRODUCTION SCALE
0 10 20 30 40 50 100mm

SCALE 1:500
0 10 20

EARTHWORKS CATCHMENTS

CATCHMENT ID	AREA (m^2)
C1	2,600m^2
C2	2,860m^2
C3	3,090m^2
C4	2,880m^2
C5	2,200m^2
C6	2,850m^2
C7	2,960m^2
C8	2,300m^2
C9	3,000m^2
C10	2,510m^2
C11	3,000m^2
C12	2,740m^2
C13	2,680m^2

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12

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		Dsg Verifier	JM	26.02.12	
		Dwg Check	JM	26.02.12	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: EROSION AND SEDIMENT CONTROL PLAN - SHEET 2
STAGE 3

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C212	C

Plotted By: Zed Fu

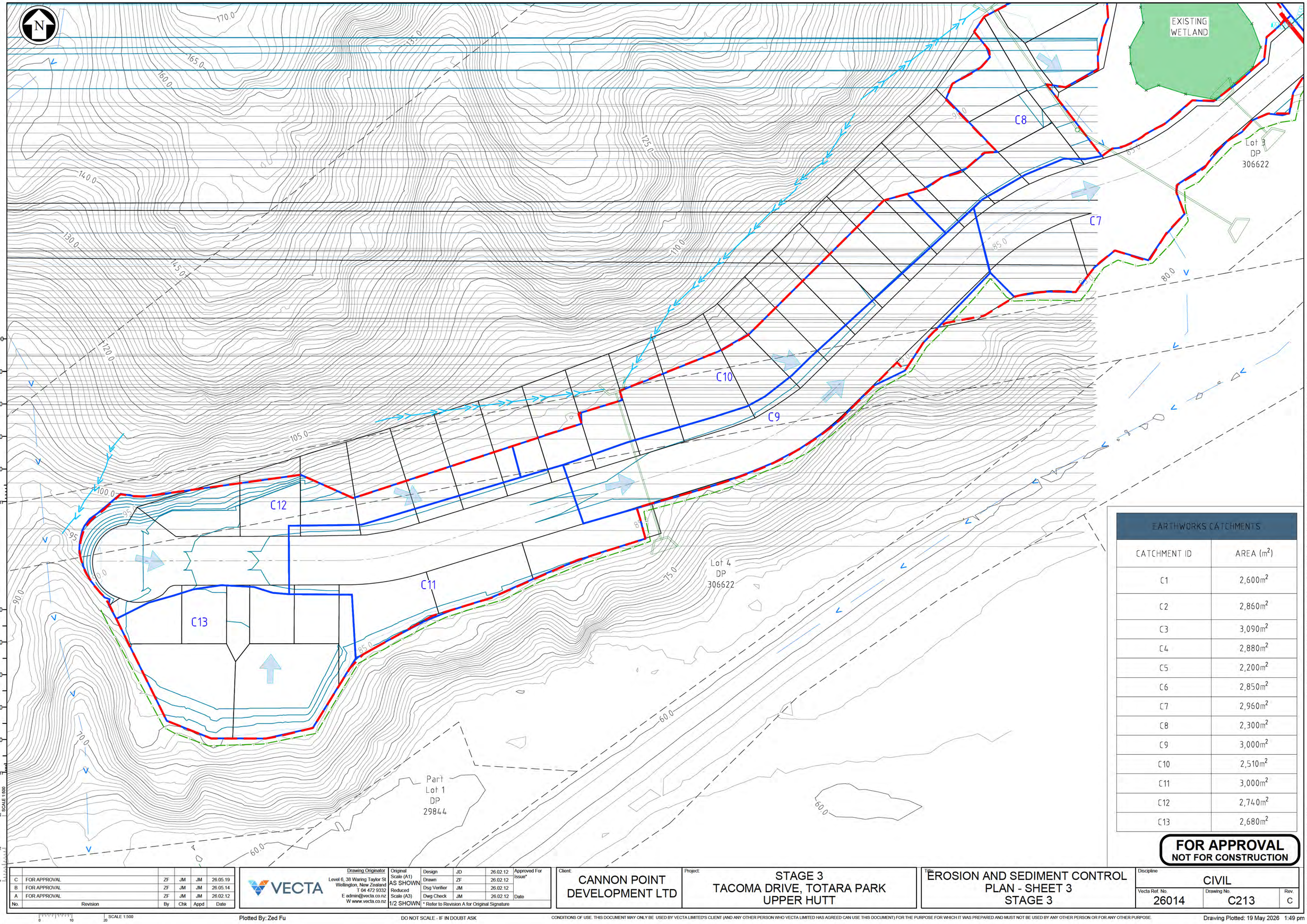
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Document No. 26014-C210-ESCP.DWG



EARTHWORKS CATCHMENTS	
CATCHMENT ID	AREA (m^2)
C1	2,600m^2
C2	2,860m^2
C3	3,090m^2
C4	2,880m^2
C5	2,200m^2
C6	2,850m^2
C7	2,960m^2
C8	2,300m^2
C9	3,000m^2
C10	2,510m^2
C11	3,000m^2
C12	2,740m^2
C13	2,680m^2

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		Dwg Check	JM	26.02.12	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EROSION AND SEDIMENT CONTROL PLAN - SHEET 3 STAGE 3

Discipline: CIVIL

Vecta Ref. No.: 26014

Drawing No.: C213

Rev.: C

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STABILISED CONSTRUCTION ENTRANCE SPECIFICATIONS:

APPLICATION

USE A STABILISED CONSTRUCTION ENTRANCE AT ALL POINTS OF CONSTRUCTION SITE INGRESS AND EGRESS WITH A CONSTRUCTION PLAN LIMITING TRAFFIC TO THESE ENTRANCES ONLY. THEY ARE PARTICULARLY USEFUL ON SMALL CONSTRUCTION SITES BUT CAN BE UTILISED FOR ALL PROJECTS.

DESIGN:

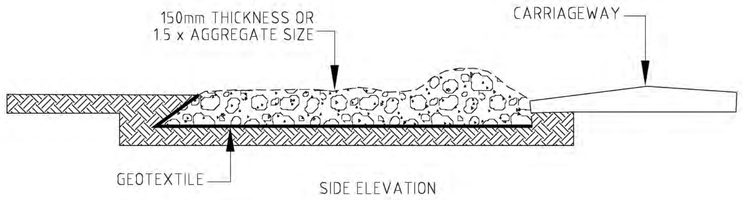
CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS AND OTHER UNSUITABLE MATERIAL AND PROPERLY GRADE IT.

1. LAY WOVEN GEOTEXTILE; PIN DOWN EDGES AND OVERLAP JOINTS.
2. PROVIDE DRAINAGE TO CARRY RUNOFF FROM THE STABILISED CONSTRUCTION ENTRANCE TO A SEDIMENT CONTROL MEASURE.
3. PLACE AGGREGATE TO THE SPECIFICATIONS BELOW AND SMOOTH IT.
4. STABILISED CONSTRUCTION ENTRANCE AGGREGATE SPECIFICATIONS:

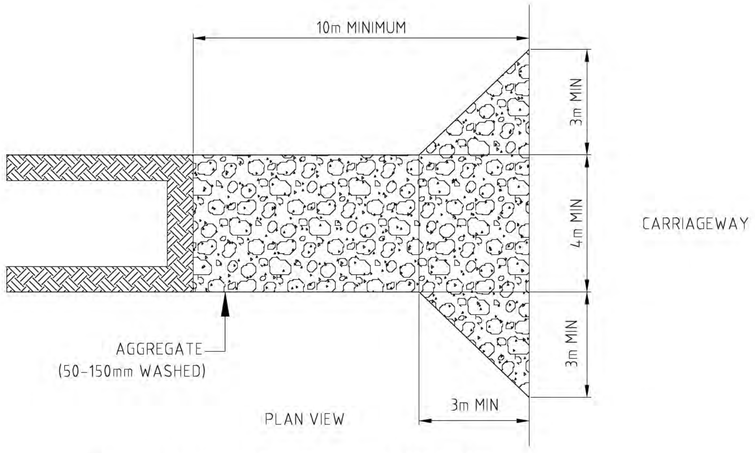
AGGREGATE SIZE	5-150mm WASHED AGGREGATE
THICKNESS	150mm MINIMUM OR 1.5 X AGGREGATE SIZE
LENGTH	10m MINIMUM LENGTH RECOMMENDED
WIDTH	4m MINIMUM

MAINTENANCE

1. MAINTAIN THE STABILISED CONSTRUCTION ENTRANCE IN A CONDITION TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. AFTER EACH RAINFALL INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT FROM THE STABILISED CONSTRUCTION ENTRANCE AND CLEAN OUT AS NECESSARY.
2. WHEN WHEEL WASHING IS ALSO REQUIRED, ENSURE THIS IS DONE ON AN AREA STABILISED WITH AGGREGATE WHICH DRAINS TO AN APPROVED SEDIMENT RETENTION FACILITY.

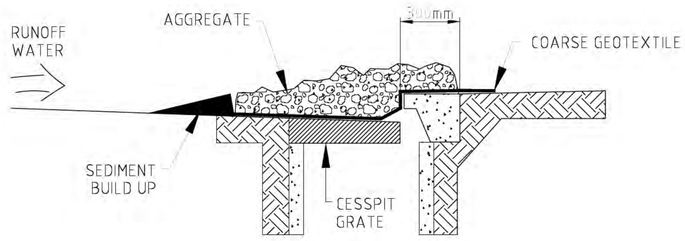


SIDE ELEVATION

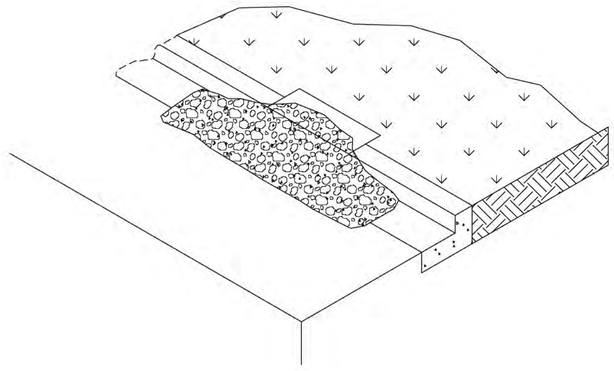


PLAN VIEW

STABILISED CONSTRUCTION ENTRANCE



CROSS SECTION



STORMWATER INLET PROTECTION
- FILTER MEDIA DESIGN

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100

A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
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		Dsg Verifier	JM 26.02.12
		Dwg Check	JM 26.02.12

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EROSION & SEDIMENT CONTROL DETAILS SHEET 1

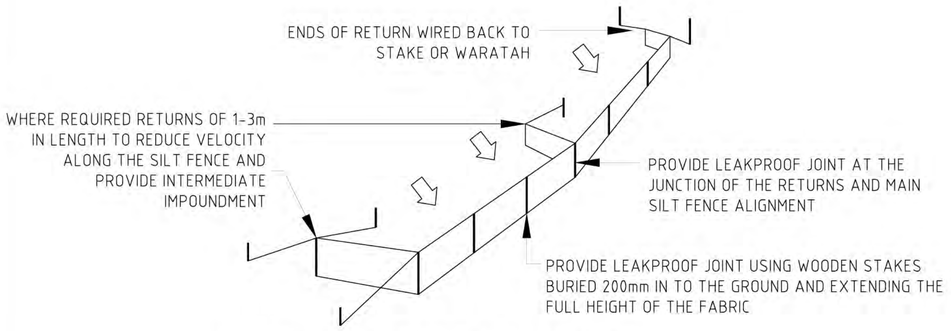
Discipline		
CIVIL		
Vecta Ref. No.	Drawing No.	Rev.
26014	C220	C

Plotted By: Zed Fu

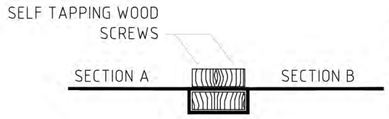
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SILT FENCE WITH RETURNS AND SUPPORT WIRE

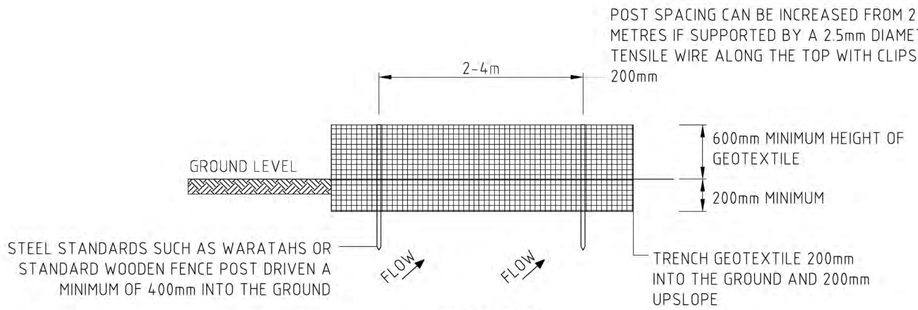


STANDARD FABRIC JOINT

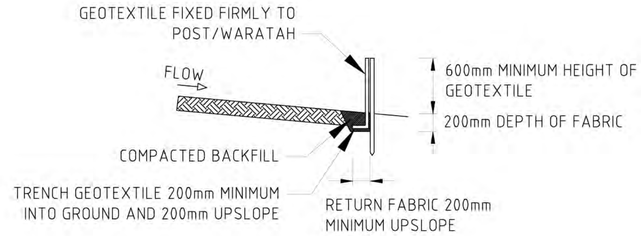
SILT FENCE DESIGN CRITERIA:

SLOPE STEEPNESS %	SLOPE LENGTH (m) (MAX)	SPACING OF RETURNS (m)
< 2%	N/A	UNLIMITED
2-10%	40	60
10-20%	30	50
20-33%	20	40
33-50%	15	30
>50%	6	20

GRAB TENSILE STRENGTH:	>440N (ASTM D4632)
TENSILE MODULUS:	0.140 pa (MINIMUM)
APPARENT OPENING SIZE:	0.1-0.5mm (ASTM D4751)



ELEVATION



CROSS-SECTION

SILT FENCE CONSTRUCTION

A1 REPRODUCTION SCALE
100 80 60 40 20 0mm

A3 REPRODUCTION SCALE
50 40 30 20 10 0mm

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C	FOR APPROVAL	ZF	JM	JM	26.05.19
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A	FOR APPROVAL	JD	JM	JM	26.02.12

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Design	JD	26.02.12	Approved For Issue*
Drawn	JD	26.02.12	
Dsg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	Date

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Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EROSION & SEDIMENT CONTROL DETAILS SHEET 2

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C221	C

Plotted By: Zed Fu

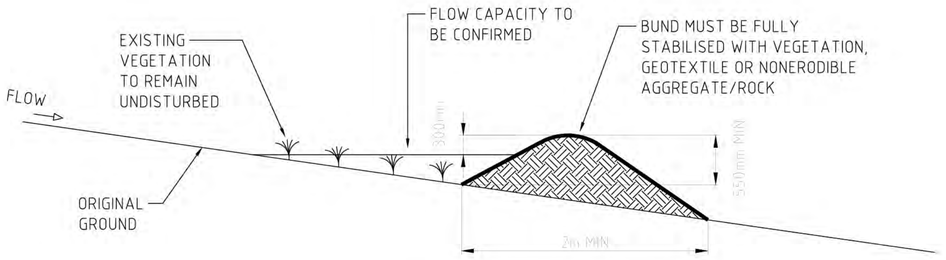
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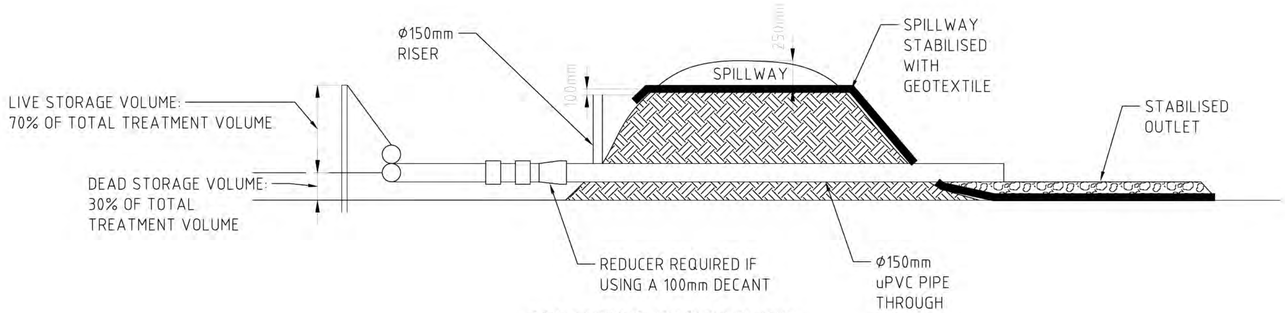
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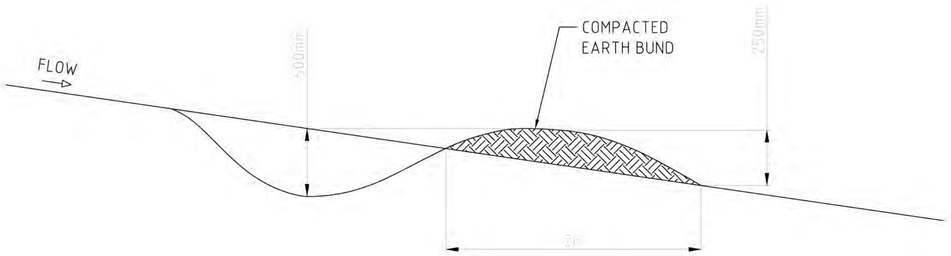
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CROSS-SECTION OF CLEAN WATER DIVERSION BUND



DECANTING EARTH BUND

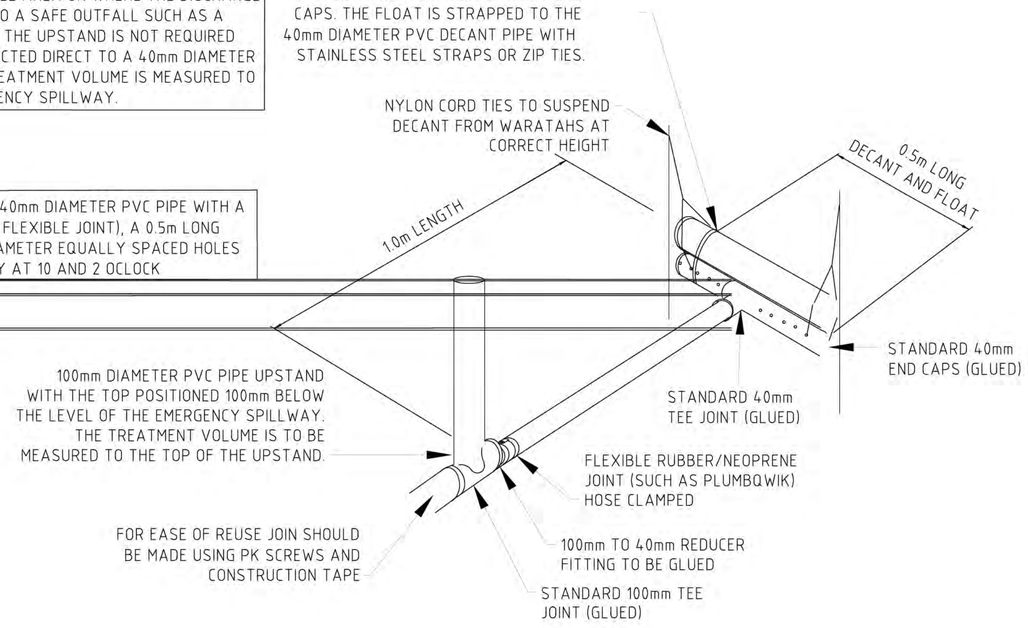


CONTOUR DRAIN CROSS-SECTION

NOTE: THE 100mm DIAMETER PVC PIPE UPSTAND IS ONLY REQUIRED WHERE THE 2m WIDE EMERGENCY SPILLWAY DISCHARGES TO VULNERABLE AREA OR WHERE THE DISCHARGE IS REQUIRED TO BE PIPED TO A SAFE OUTFALL SUCH AS A STORMWATER MANHOLE. IF THE UPSTAND IS NOT REQUIRED THE DECANT CAN BE CONNECTED DIRECT TO A 40mm DIAMETER OUTFALL PIPE AND THE TREATMENT VOLUME IS MEASURED TO THE INVERT OF THE EMERGENCY SPILLWAY.

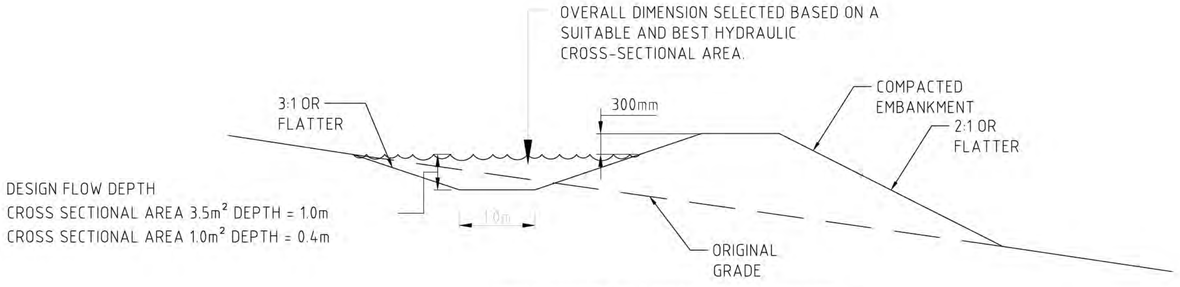
NOTE: THE DECANT HAS A 40mm DIAMETER PVC PIPE WITH A 1.3m LONG ARM (INCLUDING FLEXIBLE JOINT), A 0.5m LONG DECANT AND 20 x 10mm DIAMETER EQUALLY SPACED HOLES POSITIONED HORIZONTALLY AT 10 AND 2 OCLOCK

0.5m LONG 100mm DIAMETER PVC PIPE FLOAT WITH STANDARD 100mm END CAPS. THE FLOAT IS STRAPPED TO THE 40mm DIAMETER PVC DECANT PIPE WITH STAINLESS STEEL STRAPS OR ZIP TIES.



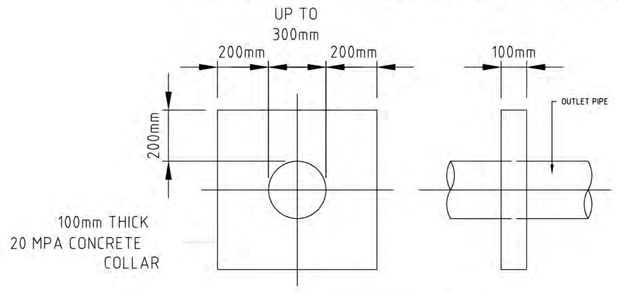
CONTOUR DRAIN SPACING:

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



CROSS-SECTION OF A DIRTY WATER DIVERSION

40mm DECANT WITH UPSTAND FOR DECANTING EARTH BUND



ANTI-SEEP COLLAR

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
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		Dsg Verifier	JM	26.02.12
		Dwg Check	JM	26.02.12

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Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EROSION & SEDIMENT CONTROL DETAILS SHEET 3

Discipline: CIVIL

Vecta Ref. No. 26014 | Drawing No. C222 | Rev. C

Plotted By: Zed Fu

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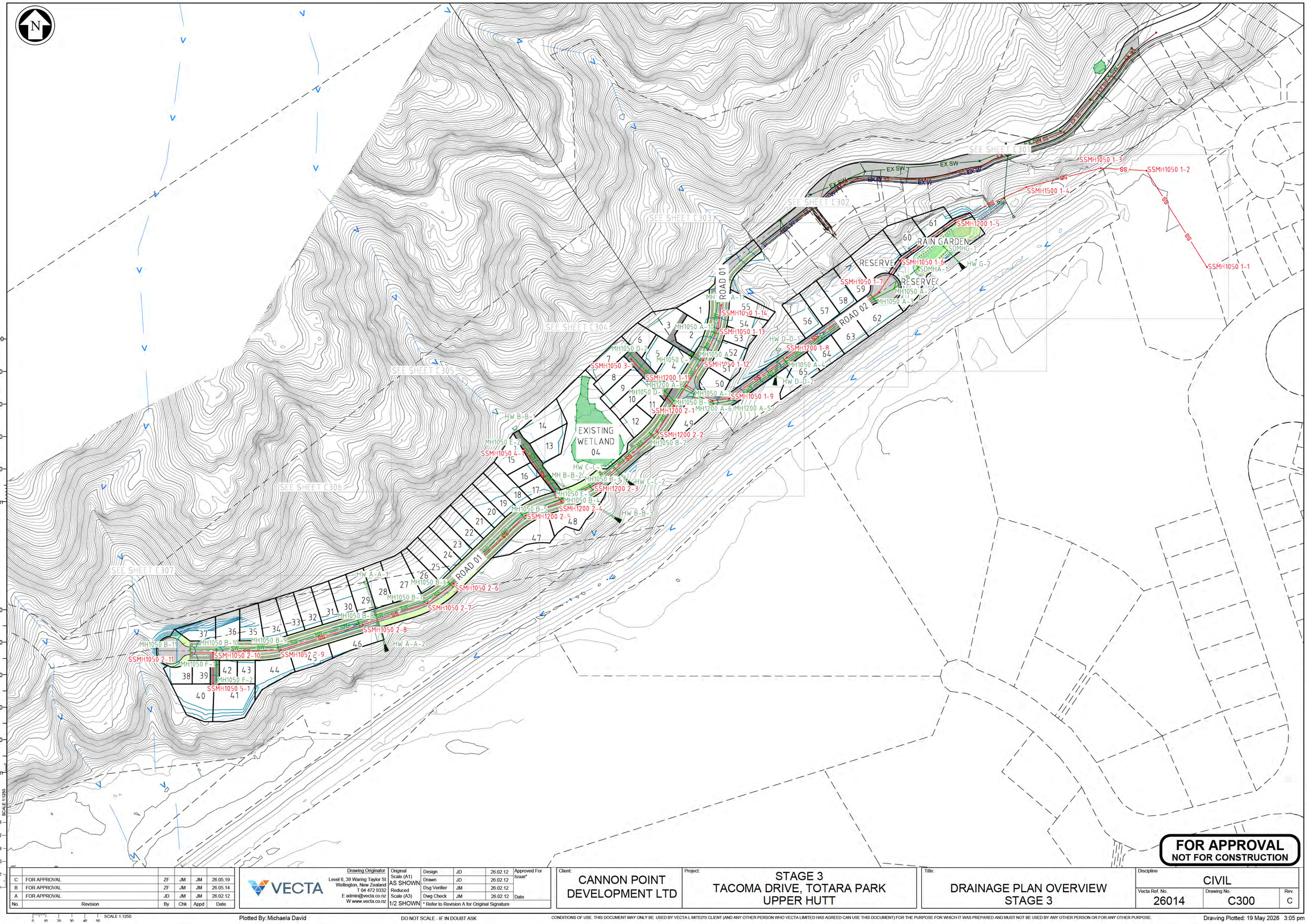
Drawing Plotted: 19 May 2026 1:58 pm

A1 REPRODUCTION SCALE 0mm 100 80 60 40 20

A3 REPRODUCTION SCALE 0mm 50 40 30 20 10

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Dsg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	Date

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Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: DRAINAGE PLAN OVERVIEW STAGE 3

Discipline: CIVIL

Vecta Ref. No.: 26014

Drawing No.: C300

Rev.: C

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Plotted By: Michaela David

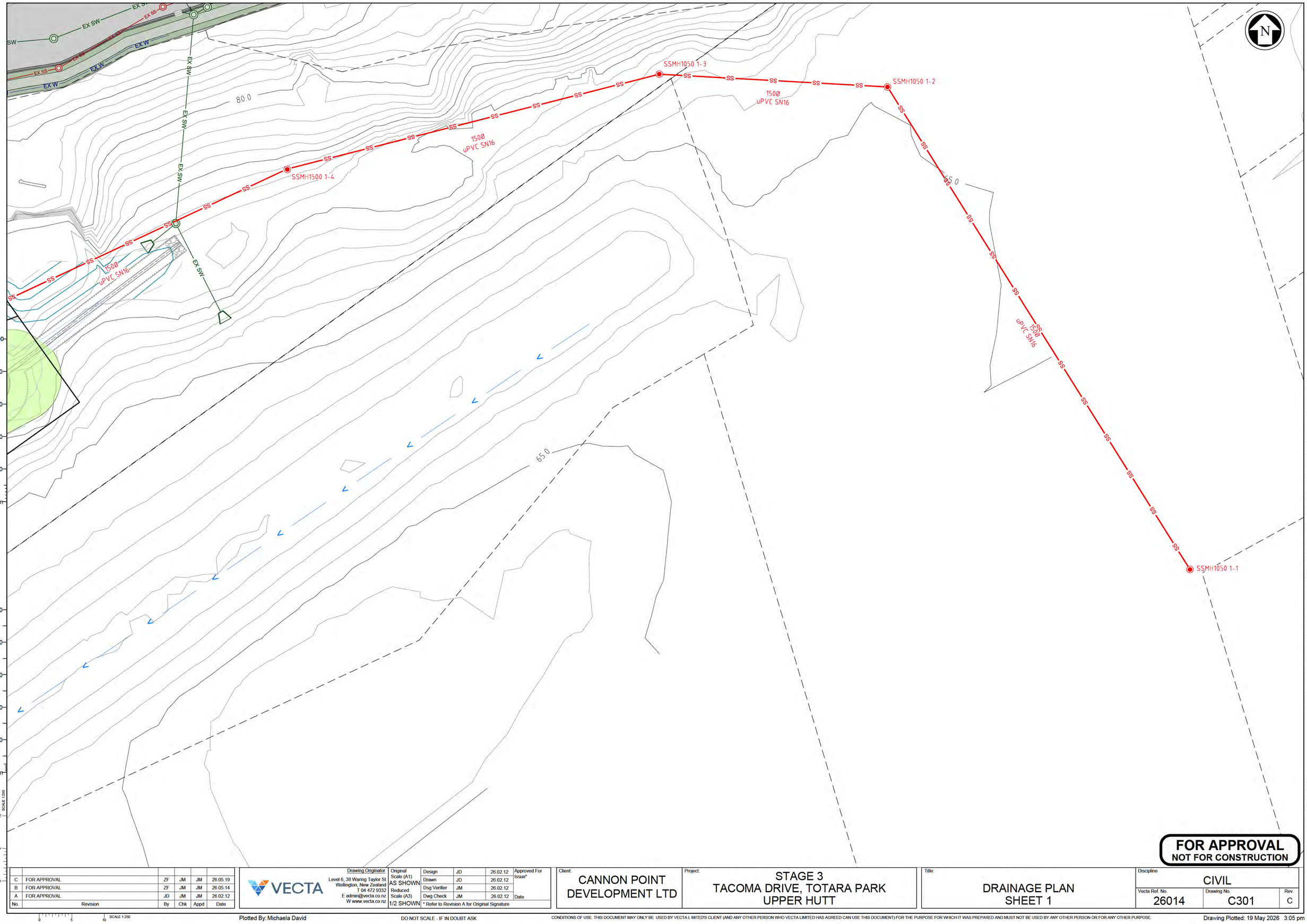
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Document No. 26014-C300-DRAINAGE PLAN.DWG



A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

SCALE 1:250
0 5 10

No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12

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Reduced Scale (A3)	1/2 SHOWN	Dsg Verifier	JM	26.02.12
		Dwg Check	JM	26.02.12

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* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: DRAINAGE PLAN SHEET 1

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C301	C

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Plotted By: Michaela David

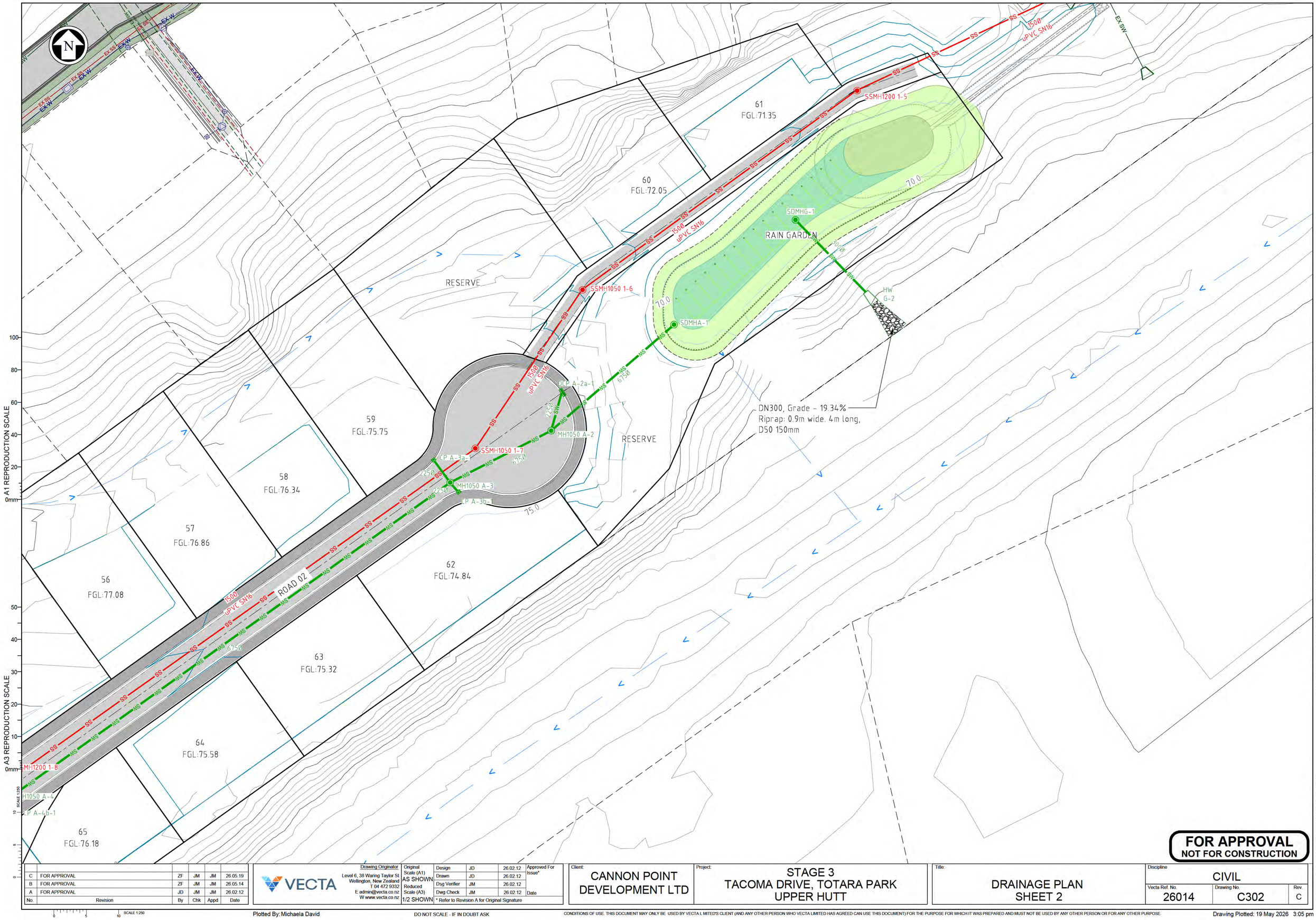
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		Dsg Verifier	JM	26.02.12	
		Dwg Check	JM	26.02.12	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: DRAINAGE PLAN
SHEET 2

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C302	C

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A1 REPRODUCTION SCALE

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12

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Design	JD	26.02.12	Approved For Issue*
Drawn	JD	26.02.12	
Dsg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	Date

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Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: DRAINAGE PLAN SHEET 3

Discipline: CIVIL

Vecta Ref. No.: 26014

Drawing No.: C303

Rev.: C

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Plotted By: Michaela David

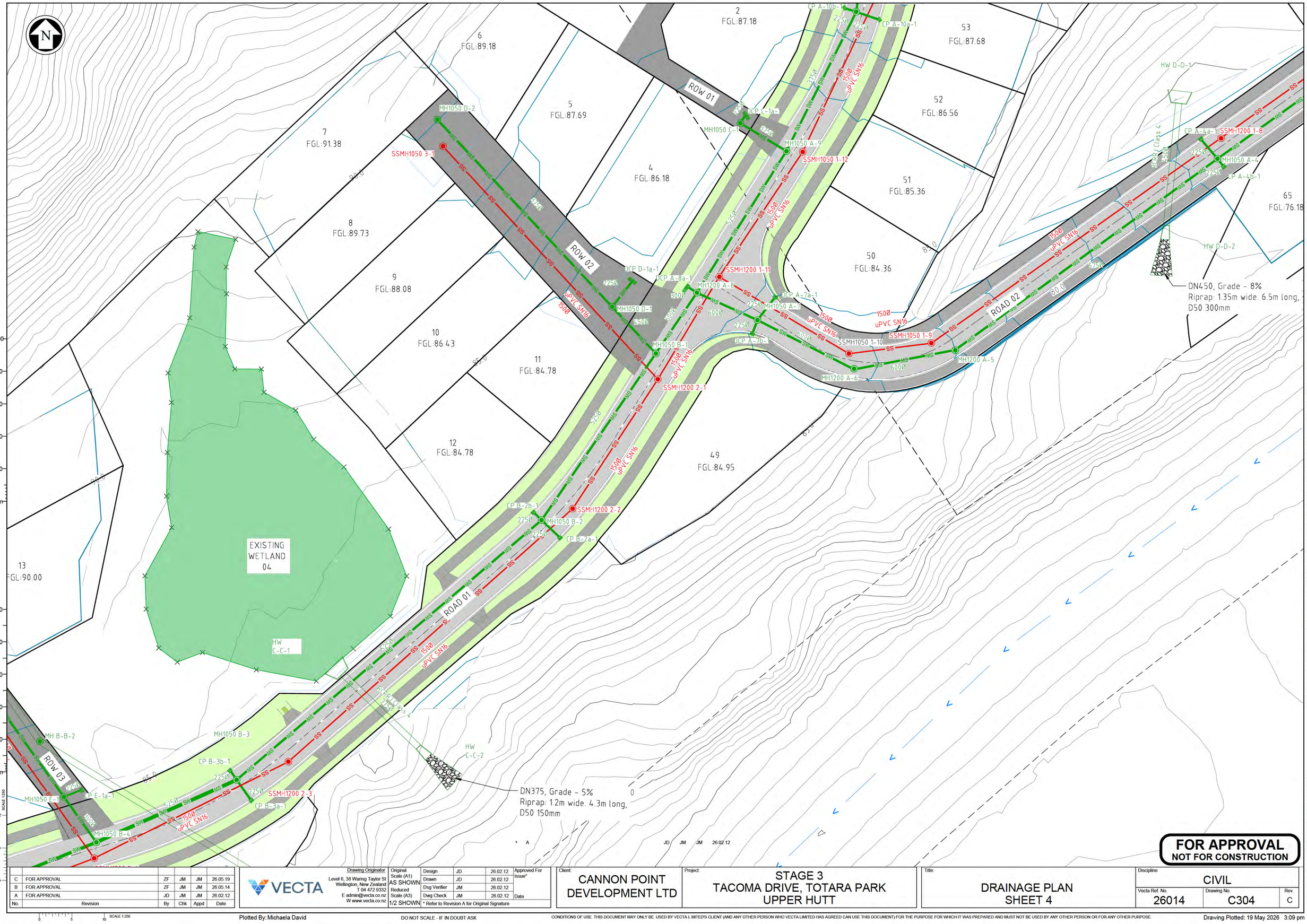
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Dsg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	Date

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Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: DRAINAGE PLAN SHEET 4

Discipline: CIVIL

Vecta Ref. No. 26014 | Drawing No. C304 | Rev. C

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