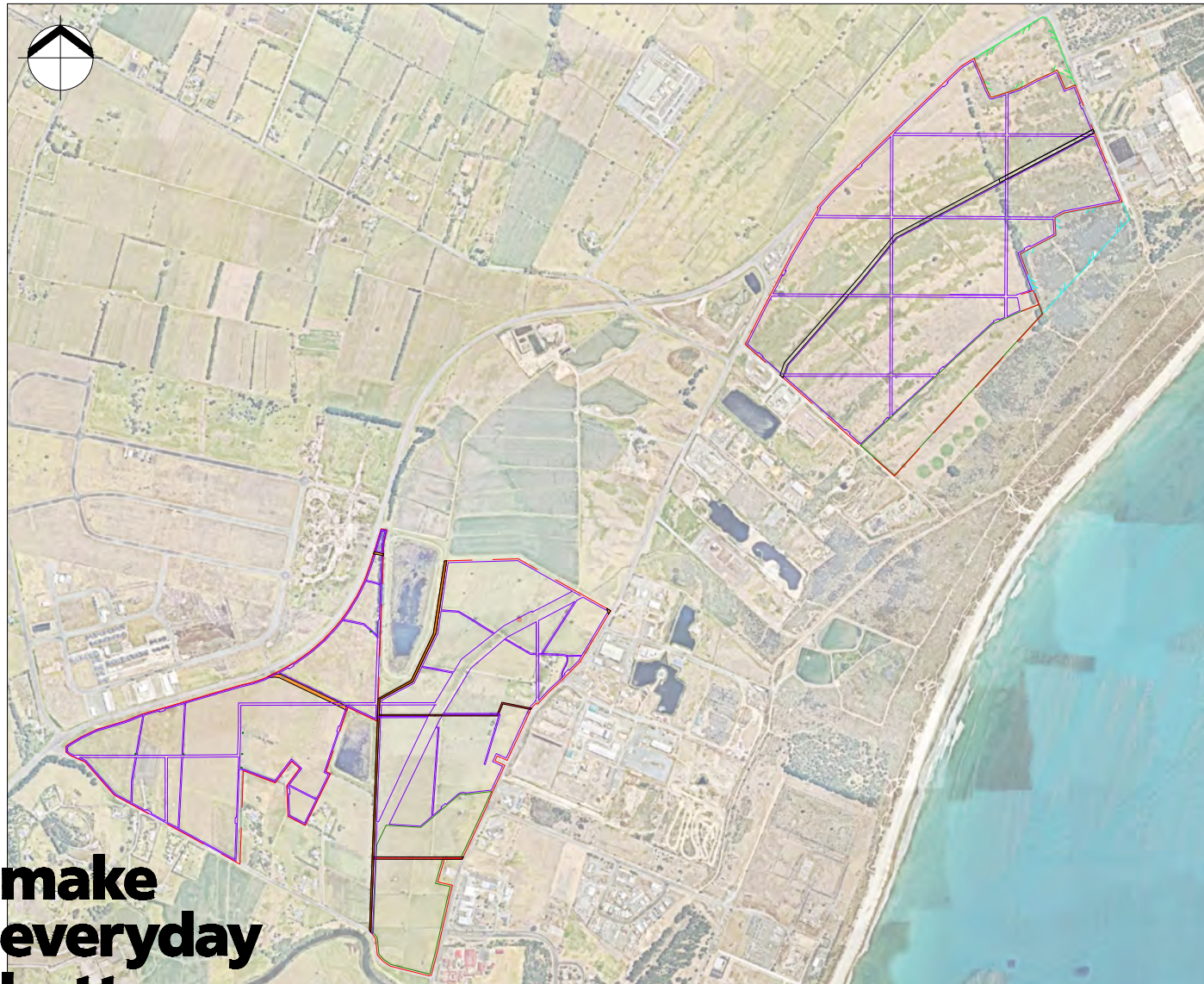


MERIDIAN SOLAR FARM

CIVIL

MERIDIAN ENERGY LTD (MERIDIAN)
 Beca Limited (Beca)
 Ruakaka, Whangarei, 0171, New Zealand

2318415
 02 AUGUST 2023
 RESOURCE CONSENT



**make
 everyday
 better.**

DRAWING LIST

DRAWING No.	DRAWING TITLE
DWG No.	DRAWING TITLE
2318415-CA-0000	COVER SHEET
2318415-1-CA-1000	EXISTING SITE SERVICES, CLEARANCE AND DEMOLITION SHEET VIEWPORT LAYOUT PLAN
2318415-1-CA-1001	EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 1
2318415-1-CA-1002	EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 2
2318415-1-CA-1003	EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 3
2318415-1-CA-1004	EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 4
2318415-1-CA-1005	EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 5
2318415-1-CA-2001	INDICATIVE FINISHED LEVEL PLAN
2318415-1-CA-2002	INDICATIVE EARTHWORK CUT AND FILL PLAN
2318415-1-CA-2010	INDICATIVE ROAD AND STORMWATER LAYOUT PLAN
2318415-1-CA-3000	INDICATIVE LONG SECTION SHEET 1
2318415-1-CA-3001	INDICATIVE LONG SECTION SHEET 2
2318415-2-CA-1000	EXISTING SITE SERVICES, CLEARANCE AND DEMOLITION SHEET VIEWPORT LAYOUT PLAN
2318415-2-CA-1001	EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 1
2318415-2-CA-1002	EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 2
2318415-2-CA-1003	EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 3
2318415-2-CA-1004	EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 4
2318415-2-CA-2001	INDICATIVE FINISHED LEVEL PLAN
2318415-2-CA-2002	INDICATIVE EARTHWORK CUT AND FILL PLAN
2318415-2-CA-2010	INDICATIVE ROAD AND STORMWATER LAYOUT PLAN
2318415-2-CA-3000	INDICATIVE LONG SECTION SHEET 1
2318415-2-CA-3001	INDICATIVE LONG SECTION SHEET 2
2318415-3-CA-1000	EXISTING SITE SERVICES, CLEARANCE AND DEMOLITION SHEET VIEWPORT LAYOUT PLAN
2318415-3-CA-1001	EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 1
2318415-3-CA-1002	EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 2
2318415-3-CA-1003	EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 3
2318415-3-CA-2001	INDICATIVE FINISHED LEVEL PLAN
2318415-3-CA-2002	INDICATIVE EARTHWORK CUT AND FILL PLAN
2318415-3-CA-2010	INDICATIVE ROAD AND STORMWATER LAYOUT PLAN
2318415-3-CA-3000	INDICATIVE LONG SECTION SHEET 1
2318415-3-CA-3001	INDICATIVE LONG SECTION SHEET 2
2318415-CA-3010	TYPICAL DETAILS CULVERT STRUCTURES
2318415-CA-3011	TYPICAL DETAILS CULVERT CROSS-SECTION
2318415-CA-3012	TYPICAL DETAILS ROAD CROSS-SECTIONS
2318415-CA-3013	TYPICAL DETAILS WETLAND CROSS-SECTION



Drawing No. 2318415-CA-0000



LEGEND:

EXISTING

- GIJ — GIJ
- CCID — CCID
- SW — SW
- SS — SS
- W — W
- CCID — CCID
- BOUNDARY
- GAS
- COMMUNICATION
- TRANSPWER LINE
- STORMWATER PIPE
- STORMWATER OPEN DRAIN
- SANITARY SEWER
- WATER
- CHORUS CABLE
- 5 m CONTOURS
- 1 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- SW CULVERT STRUCTURE
- TRANSPWER POLE
- WATER DEVICE

EXISTING NORTHPOWER

- 400v/O — 400V OVERHEAD
- 400v/U — 400V UNDERGROUND
- 11kv/O — 11KV OVERHEAD
- 11kv/U — 11KV UNDERGROUND
- 33kv/O — 33KV OVERHEAD
- P — P
- FOU — FIBRE UNDERGROUND
- FO — FIBRE OVERHEAD
- DUCT — FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

RESOURCE CONSENT
NOT FOR CONSTRUCTION

C	FOR RESOURCE CONSENT	VW		02.08.23
B	FOR RESOURCE CONSENT	VW	JS	10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23
No.	Revision	By	Chk	Appd

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:2500	Drawn	V.WHYTE	15.03.23	Date
Reduce Scale (A3)	Design Checker			
1:5000	Dwg Check			



Client: **RUAKAKĀ SOLAR FARM SITE 1**

Title: **EXISTING SITE SERVICES, CLEARANCE AND DEMOLITION SHEET VIEWPORT LAYOUT PLAN**

Discipline	CIVIL
Drawing No.	2318415-1-CA-1000
Rev.	C



LEGEND:

EXISTING

- GIU — GIU — GAS
- CCID — CCID — COMMUNICATION
- SW — SW — STORMWATER PIPE
- SS — SS — STORMWATER OPEN DRAIN
- SS — SS — SANITARY SEWER
- W — W — WATER
- CCID — CCID — CHORUS CABLE
- 5 m CONTOURS
- 1 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- TRANSPOWER POLE
- WATER DEVICE
- SW CULVERT STRUCTURE

EXISTING NORTHPOWER

- 400v/O — 400V OVERHEAD
- 400v/U — 400V UNDERGROUND
- 11kv/O — 11KV OVERHEAD
- 11kv/U — 11KV UNDERGROUND
- 33kv/O — 33KV OVERHEAD
- P — P — POWER DUCT
- FO/U — FIBRE UNDERGROUND
- FO — FIBRE OVERHEAD
- DUCT — FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

C	FOR RESOURCE CONSENT	VW		02.08.23
B	FOR RESOURCE CONSENT	VW	JS	10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23
No.	Revision	By	Chk	Appd

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
Reduced Scale (A3)	Drawn	V.WHYTE	15.03.23	Date
1:2000	Design Check			
	Drawn Check			
	* Refer to Revision 1 for Original Signature			

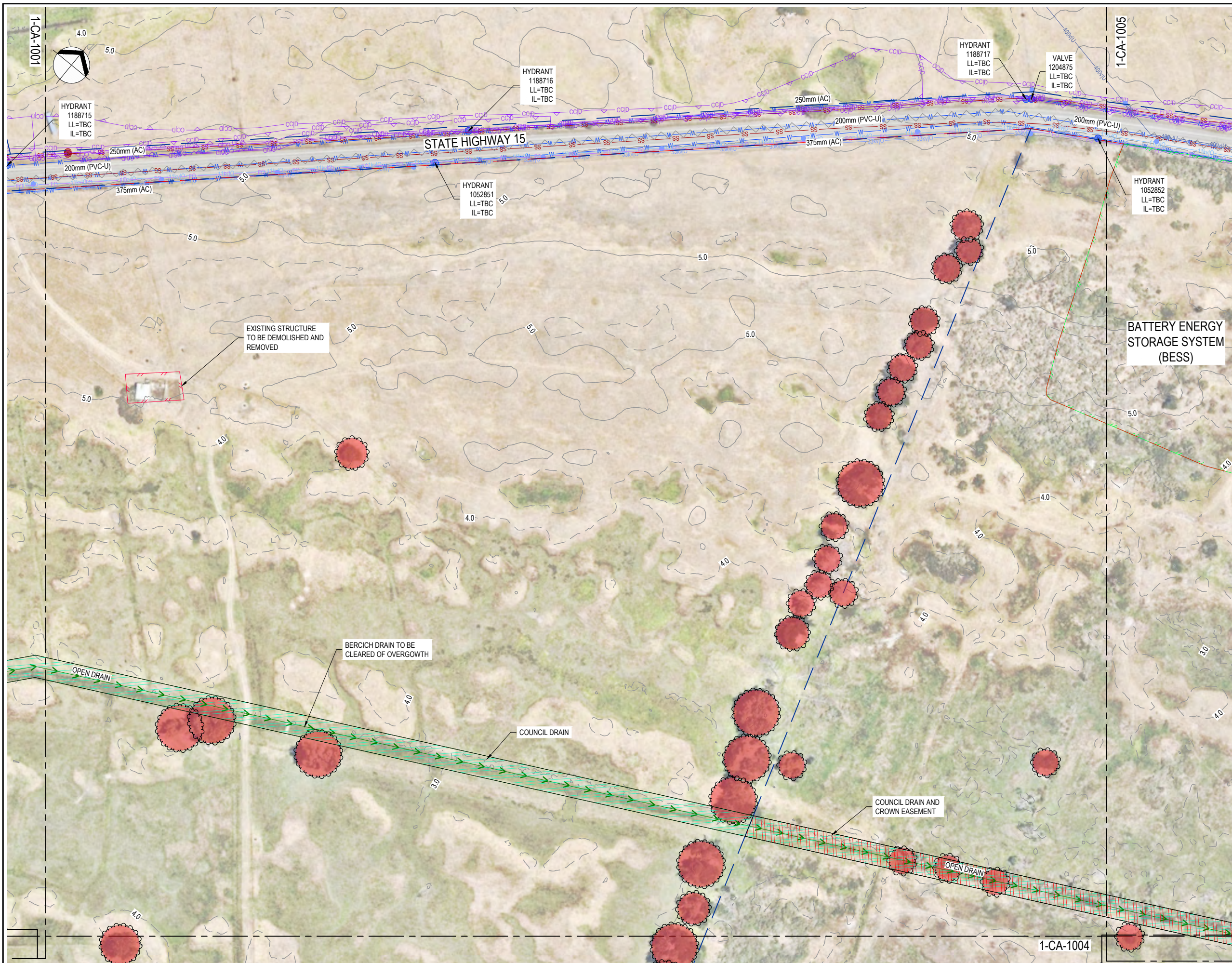


Client: **RUAKAKA SOLAR FARM SITE 1**

Title: **EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 1**

Discipline	CIVIL
Drawing No.	2318415-1-CA-1001
Rev.	C

RESOURCE CONSENT NOT FOR CONSTRUCTION



LEGEND:

EXISTING

- GIU - GIU
- CCID - CCID
- SW - SW
- SS - SS
- W - W
- CCID - CCID
- BOUNDARY
- GAS
- COMMUNICATION
- TRANSPOWER LINE
- STORMWATER PIPE
- STORMWATER OPEN DRAIN
- SANITARY SEWER
- WATER
- CHORUS CABLE
- 5 m CONTOURS
- 1 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- SW CULVERT STRUCTURE
- TRANSPOWER POLE
- WATER DEVICE

EXISTING NORTHPOWER

- 400v/O - 400V OVERHEAD
- 400v/U - 400V UNDERGROUND
- 11kv/O - 11KV OVERHEAD
- 11kv/U - 11KV UNDERGROUND
- 33kv/O - 33KV OVERHEAD
- P - P
- FO/U - FIBRE UNDERGROUND
- FO - FIBRE OVERHEAD
- DUCT - FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

C	FOR RESOURCE CONSENT	VW		02.08.23
B	FOR RESOURCE CONSENT	VW	JS	10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23
No.	Revision	By	Chk	Appd

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
Reduced Scale (A3)	Drawn	V.WHYTE	15.03.23	Date
1:2000	Day Verifier			
	Dtg Check			

* Refer to Revision 1 for Original Signature



Client: **RUAKĀKĀ SOLAR FARM SITE 1**

Title: **EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 2**

Discipline	CIVIL
Drawing No.	2318415-1-CA-1002
Rev.	C

RESOURCE CONSENT NOT FOR CONSTRUCTION



LEGEND:

EXISTING

- GIU — GIU
- CCID — CCID
- SW — SW
- SS — SS
- W — W
- CCID — CCID
- BOUNDARY
- GAS
- COMMUNICATION
- TRANSPOWER LINE
- STORMWATER PIPE
- STORMWATER OPEN DRAIN
- SANITARY SEWER
- WATER
- CHORUS CABLE
- 5 m CONTOURS
- 1 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- SW CULVERT STRUCTURE
- TRANSPOWER POLE
- WATER DEVICE

EXISTING NORTHPOWER

- 400v/O — 400V OVERHEAD
- 400v/U — 400V UNDERGROUND
- 11kv/O — 11KV OVERHEAD
- 11kv/U — 11KV UNDERGROUND
- 33kv/O — 33KV OVERHEAD
- P — P
- FOU — FIBRE UNDERGROUND
- FO — FIBRE OVERHEAD
- DUCT — FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

RESOURCE CONSENT
NOT FOR CONSTRUCTION

C	FOR RESOURCE CONSENT	VW		02.08.23
B	FOR RESOURCE CONSENT	VW	JS	10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23
No.	Revision	By	Chk	Appd

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
Reduced Scale (A3)	Drawn	V.WHYTE	15.03.23	Date
1:2000	Design Verifier			
	Dwg Check			

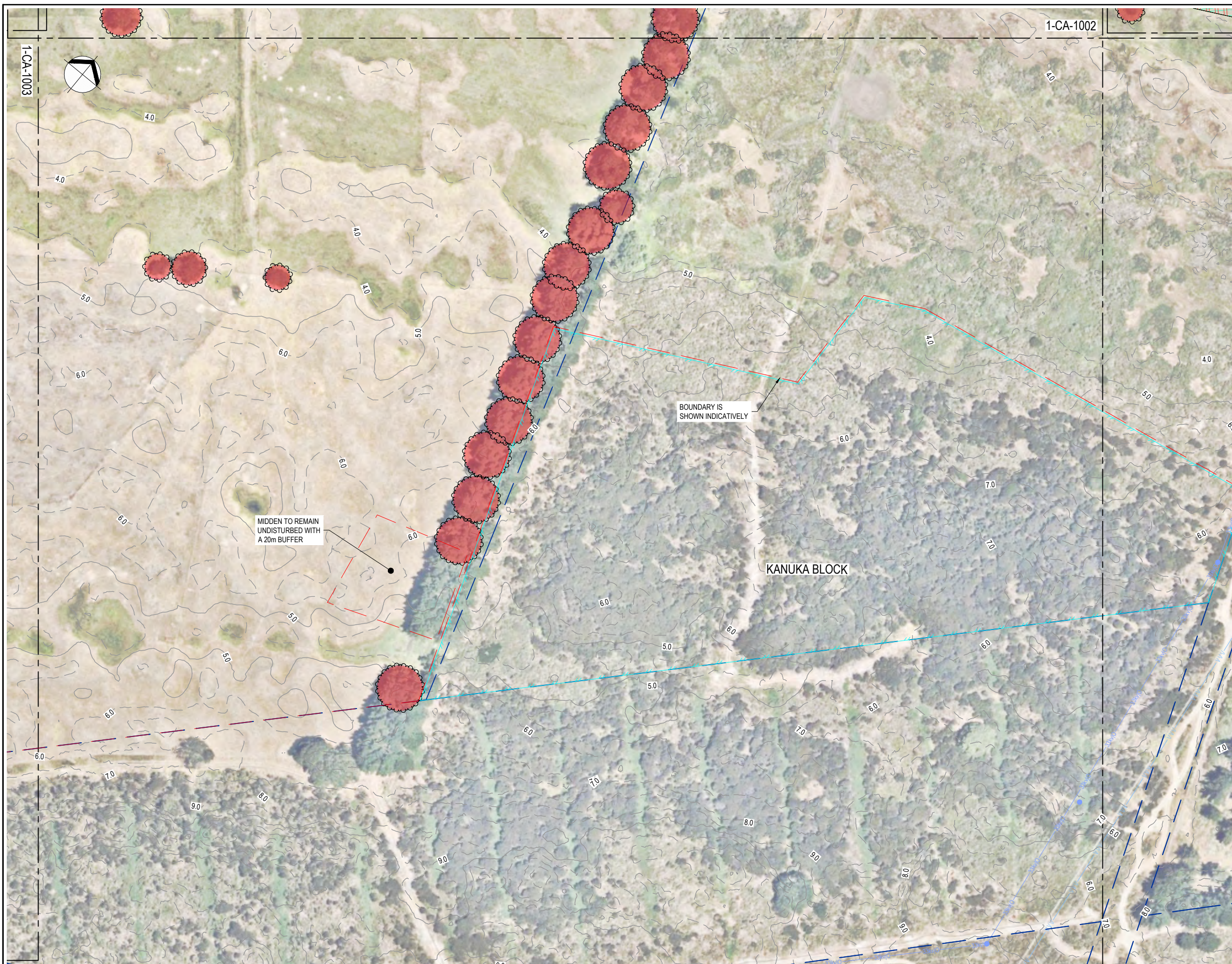
* Refer to Revision 1 for Original Signature



Client: **RUAKAKA SOLAR FARM SITE 1**

Title: **EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 3**

Discipline	CIVIL
Drawing No.	2318415-1-CA-1003
Rev.	C



LEGEND:

EXISTING

- GIU — GIU — GAS
- CCID — CCID — COMMUNICATION
- AAA — TRANSPOWER LINE
- SW — SW — STORMWATER PIPE
- SW — SW — STORMWATER OPEN DRAIN
- SS — SS — SANITARY SEWER
- W — W — WATER
- CCID — CCID — CHORUS CABLE
- 5 m CONTOURS
- 1 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- TRANSPOWER POLE
- WATER DEVICE
- SW CULVERT STRUCTURE

EXISTING NORTHPOWER

- 400v/O — 400V OVERHEAD
- 400v/U — 400V UNDERGROUND
- 11kv/O — 11KV OVERHEAD
- 11kv/U — 11KV UNDERGROUND
- 33kv/O — 33KV OVERHEAD
- P — P — POWER DUCT
- FOU — FIBRE UNDERGROUND
- FO — FO — FIBRE OVERHEAD
- DUCT — FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

Original Scale (A1)	Design Drawn	V.WHYTE	15.03.23	Approved For Construction*
Reduced Scale (A3)	Design Verifier <td>V.WHYTE <td>15.03.23 <td>Date</td> </td></td>	V.WHYTE <td>15.03.23 <td>Date</td> </td>	15.03.23 <td>Date</td>	Date
1:2000	Dwg Check			

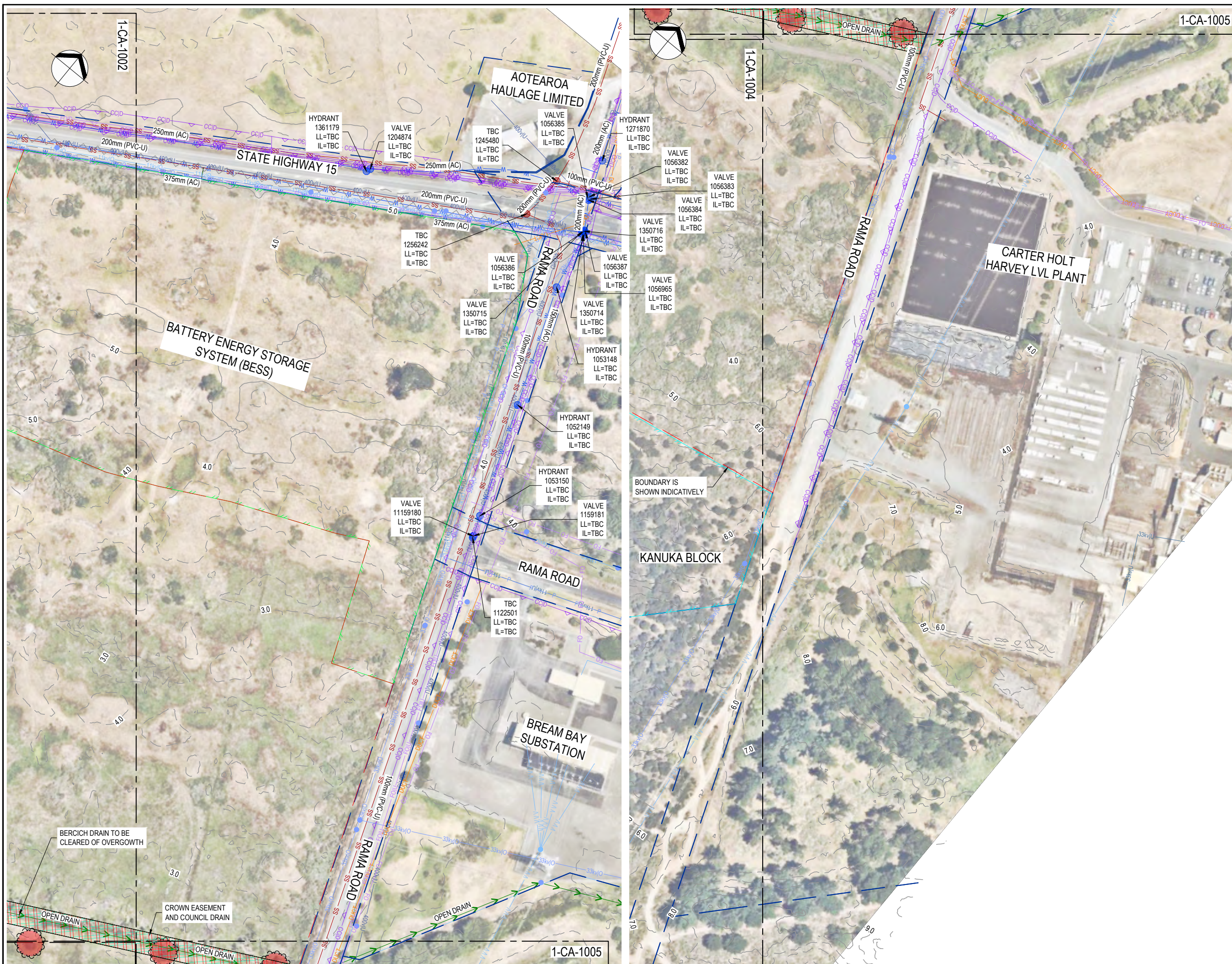
* Refer to Revision 1 for Original Signature



Client: **RUAKĀKĀ SOLAR FARM SITE 1**

Title: **EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 4**

Discipline	CIVIL
Drawing No.	2318415-1-CA-1004
Rev.	C



LEGEND:

EXISTING

- GIU — GIU
- CCID — CCID
- SW — SW
- SS — SS
- W — W
- CCID — CCID
- BOUNDARY
- GAS
- COMMUNICATION
- TRANSPOWER LINE
- STORMWATER PIPE
- STORMWATER OPEN DRAIN
- SANITARY SEWER
- WATER
- CHORUS CABLE
- 5 m CONTOURS
- 1 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- TRANSPOWER POLE
- WATER DEVICE
- SW CULVERT STRUCTURE

EXISTING NORTHPOWER

- 400v/O — 400V OVERHEAD
- 400v/U — 400V UNDERGROUND
- 11kv/O — 11KV OVERHEAD
- 11kv/U — 11KV UNDERGROUND
- 33kv/O — 33KV OVERHEAD
- P — P
- FOU — FIBRE UNDERGROUND
- FO — FIBRE OVERHEAD
- DUCT — FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

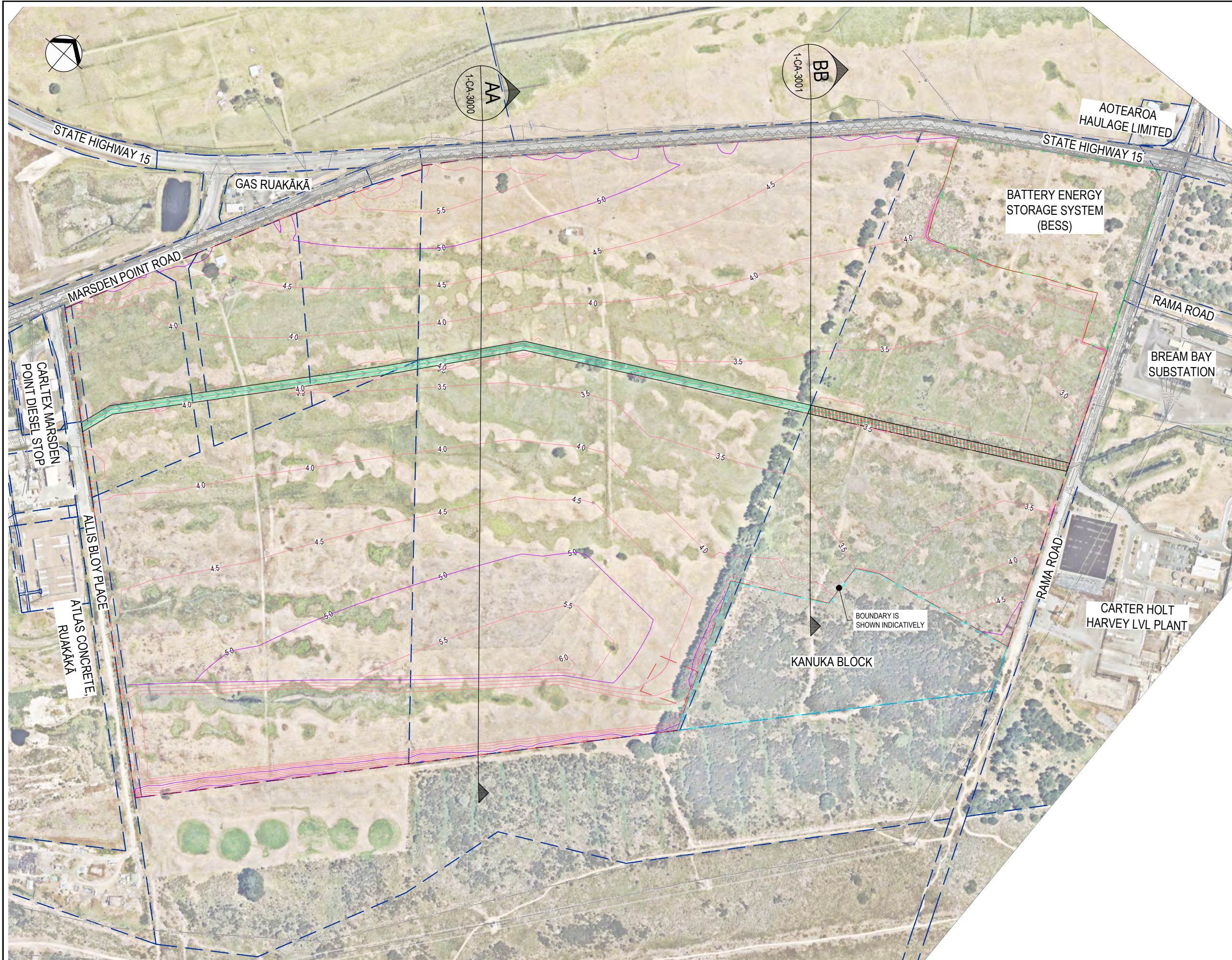
Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
Reduced Scale (A3)	Drawn	V.WHYTE <td>15.03.23 <td>Date</td> </td>	15.03.23 <td>Date</td>	Date
1:2000	Qty Check			



Client: **RUAKĀKĀ SOLAR FARM SITE 1**

Title: **EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 5**

Discipline	CIVIL
Drawing No.	2318415-1-CA-1005
Rev.	C



LEGEND:

EXISTING

- BOUNDARY
- VEGETATION
- GARDEN/GRASS
- EDGE OF SEAL
- GAS
- COMMUNICATION
- TRANSPWER LINE
- STORMWATER
- OPEN DRAIN
- STORMWATER DRAIN
- SANITARY SEWER
- WATER
- CHORUS CABLE
- FIRST GAS UNDERGROUND
- GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- TRANSPWER POLE
- WATER DEVICE

EXISTING NORTHPOWER

- 400V(O) 400V OVERHEAD
- 400V(U) 400V UNDERGROUND
- 11kV(O) 11KV OVERHEAD
- 11kV(U) 11KV UNDERGROUND
- 33kV(O) 33KV OVERHEAD
- P P P P POWER DUCT
- FO(U) FO(U) FIBRE UNDERGROUND
- FO FO FIBRE OVERHEAD
- DUCT DUCT FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- 2.5 m INDICATIVE CONTOURS
- 0.5 m INDICATIVE CONTOURS

NOTE:
 THE CONTOURS SHOWN ON THIS PLAN ARE DERIVED FROM A DIGITAL MODEL. FOR CONSTRUCTION PURPOSES, THESE WOULD BE MADE MORE REGULAR TO IMPROVED CONSTRUCTIONABILITY. THIS ADJUSTMENT WOULD NOT CHANGE THE EXPECTED EFFECTS FROM EARTHWORKS

RESOURCE CONSENT
 NOT FOR CONSTRUCTION

C	FOR RESOURCE CONSENT	VW		02.08.23	Original Scale (A1) 1:2500	Design V.WHYTE 15.03.23	Approved For Construction*
B	FOR RESOURCE CONSENT	VW	JS	10.07.23	Reduce Scale (A3) 1:5000	Drawn V.WHYTE 15.03.23	Date
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23		Design Check	
No.	Revision	By	Chk	Appd	Date		

Design	V.WHYTE	15.03.23	Approved For Construction*
Drawn	V.WHYTE	15.03.23	Date
Design Check			
Drawn			

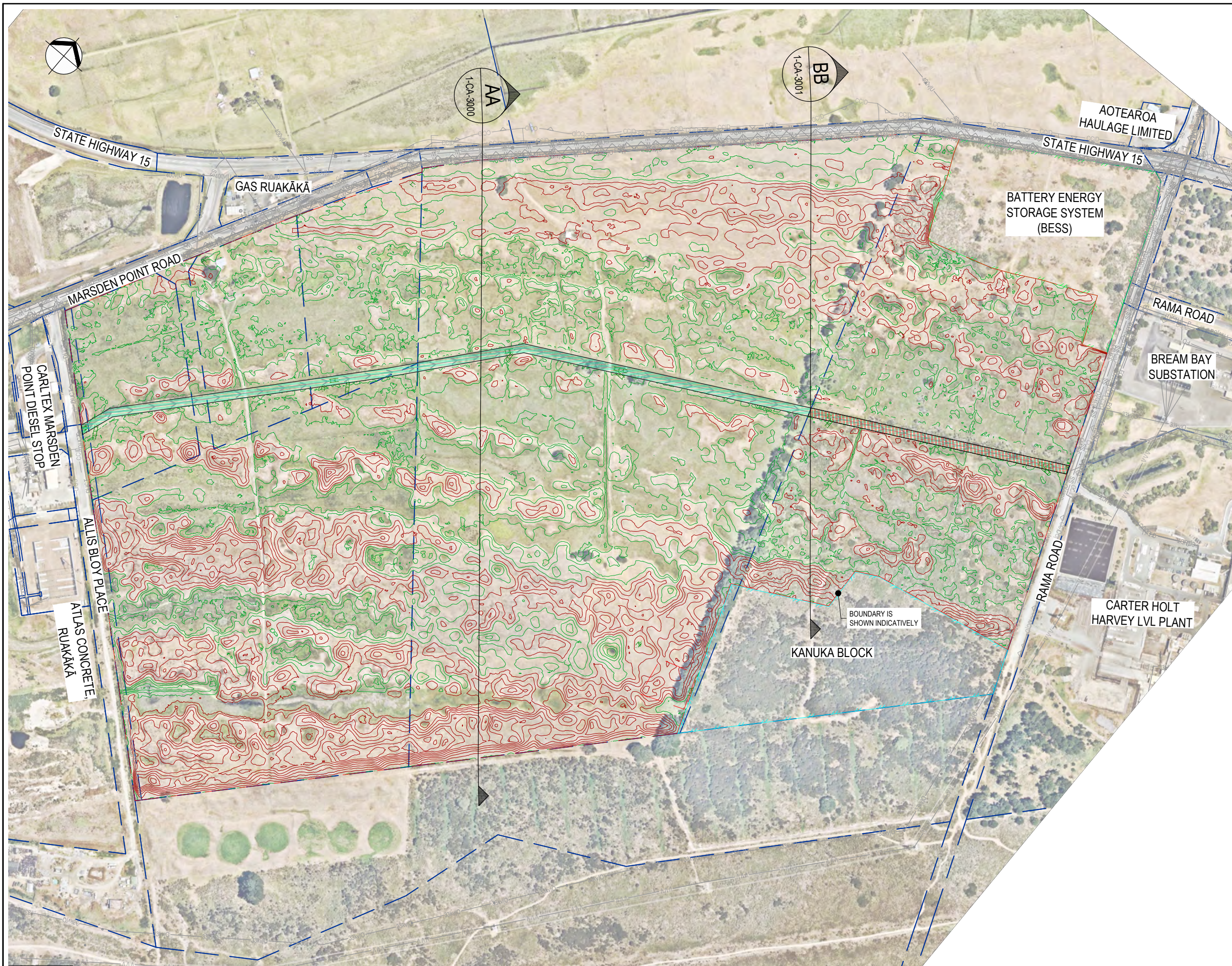
* Refer to Revision 1 for Original Signature



Client: **Meridian.** Project: **RUAKĀKĀ SOLAR FARM SITE 1**

Title: **INDICATIVE FINISHED LEVEL PLAN**

Discipline	CIVIL
Drawing No.	2318415-1-CA-2001
Rev.	C



LEGEND:

EXISTING	
— GJU — GJU	BOUNDARY
— CCJD — CCJD	GAS
— SW — SW	COMMUNICATION
— A/A — A/A	TRANSPOWER LINE
— SW — SW	STORMWATER
— D — D — D	OPEN DRAIN
— SS — SS	STORMWATER DRAIN
— W — W — W	SANITARY SEWER
— CCJD — CCJD	WATER
— CCJD — CCJD	CHORUS CABLE
— CCJD — CCJD	FIRST GAS UNDERGROUND GAS PIPE
— CCJD — CCJD	COUNCIL DRAIN
— CCJD — CCJD	COUNCIL EASEMENT
— CCJD — CCJD	CROWN EASEMENT
● SS MANHOLE	● TRANSPOWER POLE
● SW DEVICE	● WATER DEVICE

EXISTING NORTHPOWER	
— 400v(O) — 400v(O)	400V OVERHEAD
— 400v(U) — 400v(U)	400V UNDERGROUND
— 11kv(O) — 11kv(O)	11KV OVERHEAD
— 11kv(U) — 11kv(U)	11KV UNDERGROUND
— 33kv(O) — 33kv(O)	33KV OVERHEAD
— P — P — P	POWER DUCT
— FO(U) — FO(U)	FIBRE UNDERGROUND
— FO — FO	FIBRE OVERHEAD
— DUCT — DUCT	FIBRE DUCT
●	POWER POLE

PROPOSED	
— — —	SITE EXTENT BOUNDARY
— — —	BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
— — —	KANUKA BLOCK
— — —	INDICATIVE AREA OF CUT
— — —	INDICATIVE AREA OF FILL

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

Original Scale (A1)	Design	Drawn	Date	Approved For Construction*
1:2500	V.WHYTE	V.WHYTE	15.03.23	15.03.23
Reduced Scale (A3)	Design Verifier			
1:5000	Dwg Check			

* Refer to Revision 1 for Original Signature

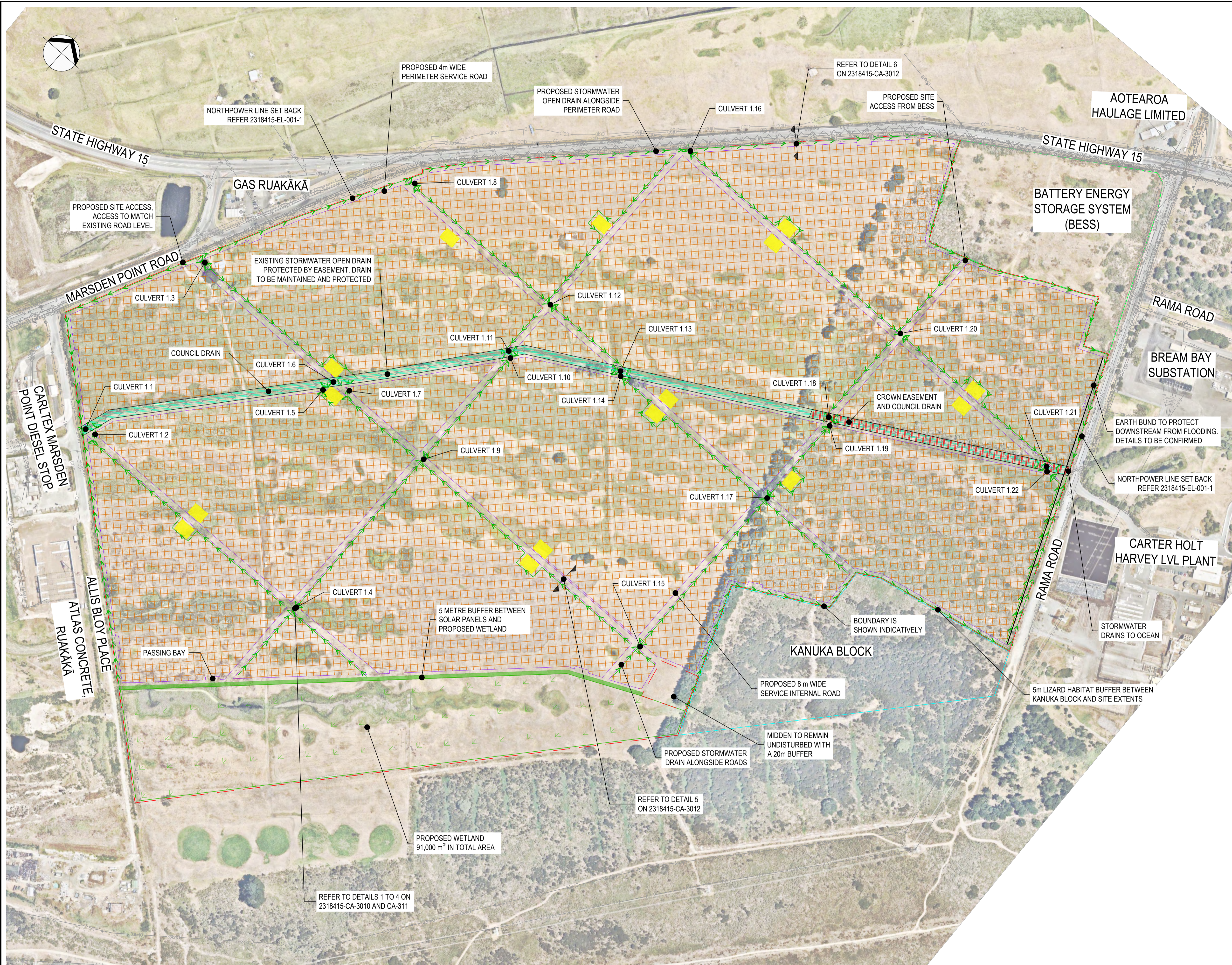


Client: Meridian
Project: RUAKĀKĀ SOLAR FARM SITE 1

Title: INDICATIVE EARTHWORK CUT AND FILL PLAN

Discipline	Rev.
CIVIL	C

Drawing No. 2318415-1-CA-2002



LEGEND:

EXISTING

- BOUNDARY
- GAS
- COMMUNICATION
- TRANSPOWER LINE
- STORMWATER
- OPEN DRAIN
- STORMWATER DRAIN
- SANITARY SEWER
- WATER
- CHORUS CABLE
- STORMWATER OPEN DRAIN
- FIRST GAS UNDERGROUND
- GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- TRANSPOWER POLE
- WATER DEVICE
- CULVERT STRUCTURE

EXISTING NORTHPOWER

- 400V OVERHEAD
- 400V UNDERGROUND
- 11kV OVERHEAD
- 11kV UNDERGROUND
- 33kV OVERHEAD
- POWER DUCT
- FIBRE UNDERGROUND
- FIBRE OVERHEAD
- FIBRE DUCT

PROPOSED

- SITE EXTENT BOUNDARY
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- SERVICE ROAD
- WETLAND EXTENT
- STORMWATER OPEN DRAIN
- STORMWATER CULVERT
- SOLAR PANEL ZONE
- WETLAND
- TRANSPOWER PYLON
- MAINTENANCE RESERVE
- CULVERT HEADWALL
- MEDIUM VOLTAGE POWER STATION

RESOURCE CONSENT
NOT FOR CONSTRUCTION

C	FOR RESOURCE CONSENT	VW		02.08.23
B	FOR RESOURCE CONSENT	VW	JS	10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23
No.	Revision	By	Chk	Appd

Original Scale (A1)	Design	V.WHYTE	27.04.23	Approved For Construction*
1:2500	Drawn	V.WHYTE	27.04.23	Date
Reduced Scale (A3)	Dwg Verifier			
1:5000	Dwg Check			

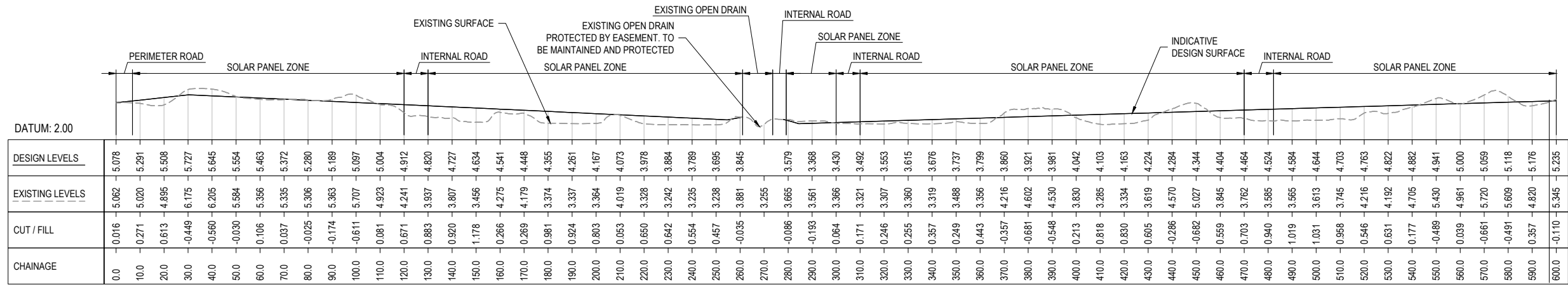
* Refer to Revision 1 for Original Signature



Client: **Meridian.**
Project: **RUAKĀKĀ SOLAR FARM SITE 1**

Title: **INDICATIVE ROAD AND STORMWATER LAYOUT PLAN**

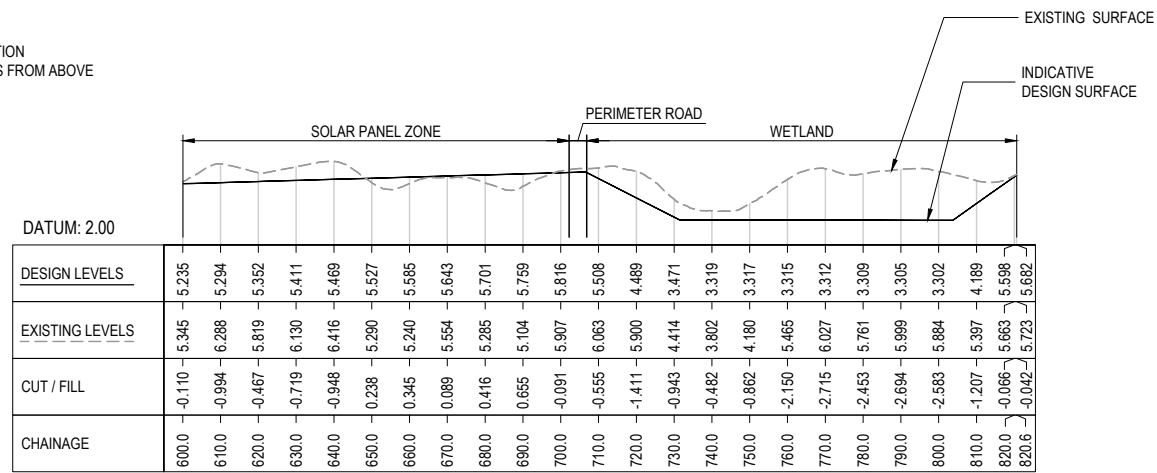
Discipline	CIVIL
Drawing No.	2318415-1-CA-2010
Rev.	C



LONGITUDINAL SECTION: ALIGNMENT AA
SCALE HORIZ= 1:1000; VERT= 1:200

LONG SECTION CONTINUES BELOW

LONG SECTION CONTINUES FROM ABOVE



LONGITUDINAL SECTION: ALIGNMENT AA
SCALE HORIZ= 1:1000; VERT= 1:200

**RESOURCE CONSENT
NOT FOR CONSTRUCTION**

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

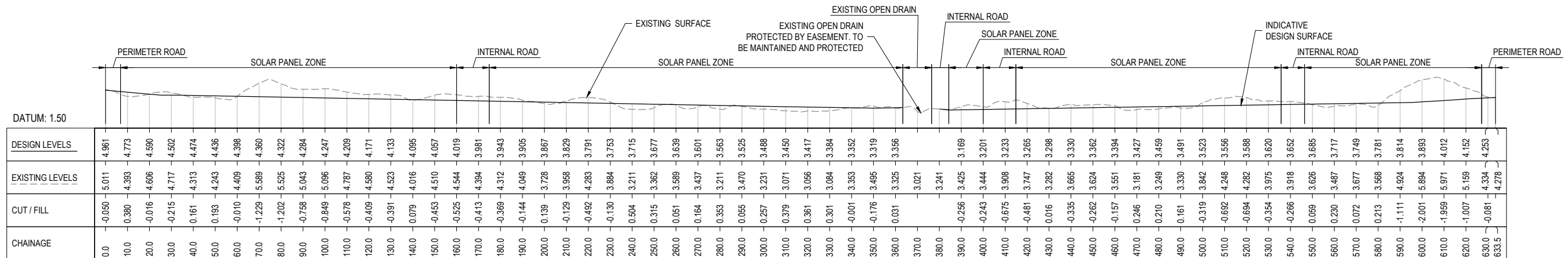
Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
AS SHOWN	Drawn	V.WHYTE <td>15.03.23</td> <td></td>	15.03.23	
Reduction Scale (A3)	Design Checker			
HALF SHOWN	Refer to Revision 1 for Original Signature			



Client: **RUAKAKA SOLAR FARM SITE 1**

Title: **INDICATIVE LONG SECTION SHEET 1**

Discipline	CIVIL
Drawing No.	2318415-1-CA-3000
Rev.	C



LONGITUDINAL SECTION: ALIGNMENT BB
SCALE HORIZ= 1:1000; VERT= 1:200

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
AS SHOWN	Drawn	V.WHYTE <td>15.03.23</td> <td></td>	15.03.23	
Reduced Scale (A3)	Design Checker			
HALF SHOWN	Design Checker			

* Refer to Revision 1 for Original Signature

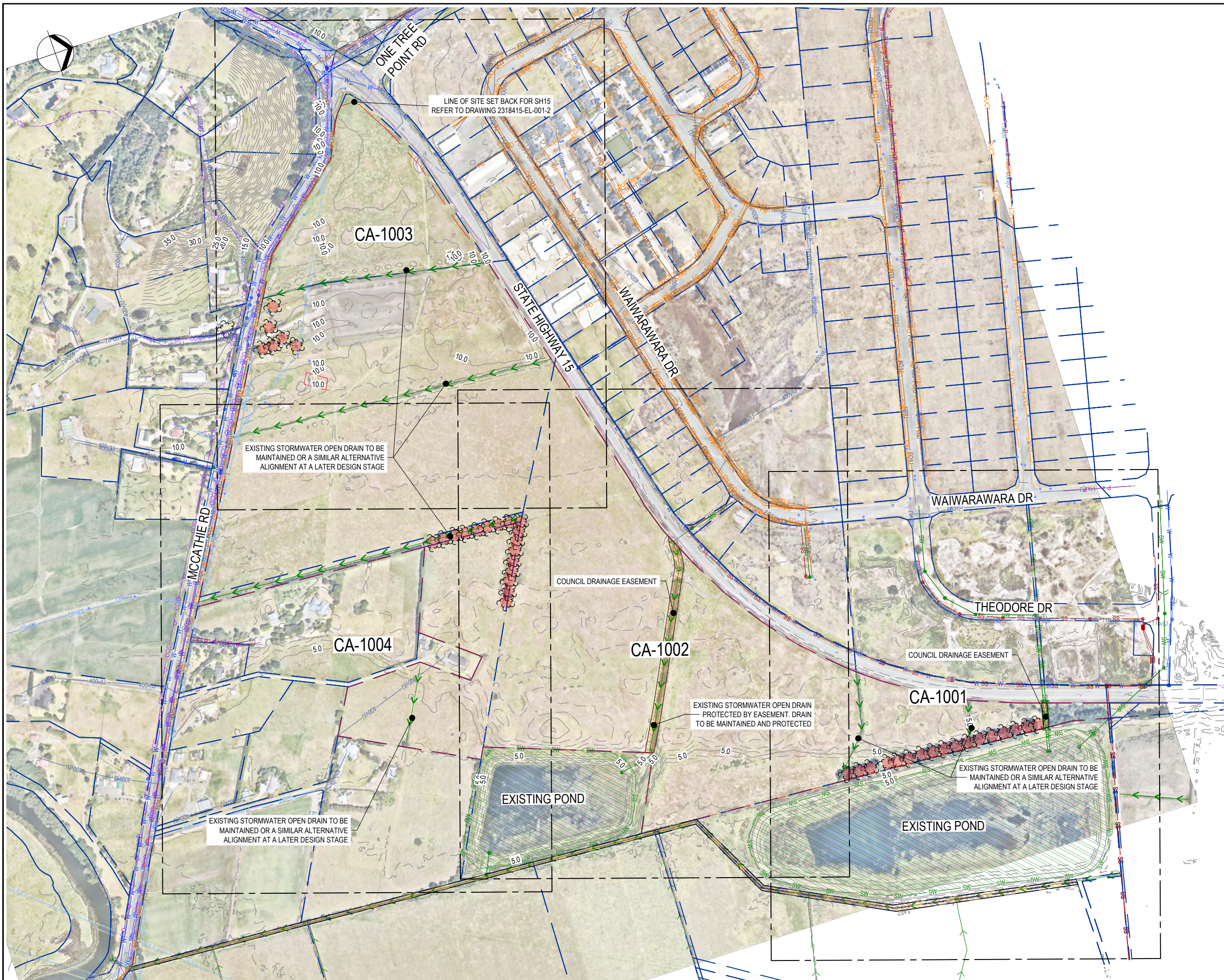


Client: **RUAKAKA SOLAR FARM SITE 1**

Title: **INDICATIVE LONG SECTION SHEET 2**

Discipline	CIVIL
Drawing No.	2318415-1-CA-3001
Rev.	C

RESOURCE CONSENT NOT FOR CONSTRUCTION



LEGEND:

EXISTING

- BOUNDARY
- GAS
- COMMUNICATION
- TRANSPOWER LINE
- STORMWATER PIPE
- STORMWATER OPEN DRAIN
- SANITARY SEWER
- WATER
- CHORUS CABLE
- 5 m CONTOURS
- 1 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- TRANSPOWER POLE
- WATER DEVICE
- SW CULVERT STRUCTURE

EXISTING NORTHPOWER

- 400V OVERHEAD
- 400V UNDERGROUND
- 11kV OVERHEAD
- 11kV UNDERGROUND
- 33kV OVERHEAD
- 33kV UNDERGROUND
- POWER DUCT
- FOIU FIBRE UNDERGROUND
- FO FIBRE OVERHEAD
- DUCT FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

C	FOR RESOURCE CONSENT	VW		02.08.23
B	FOR RESOURCE CONSENT	VW	JS	10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23
No.	Revision	By	Chk	Appd

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:2500	Drawn	V.WHYTE	15.03.23	Date
Reduce Scale (A3)	Design Checker			
1:5000	Check			

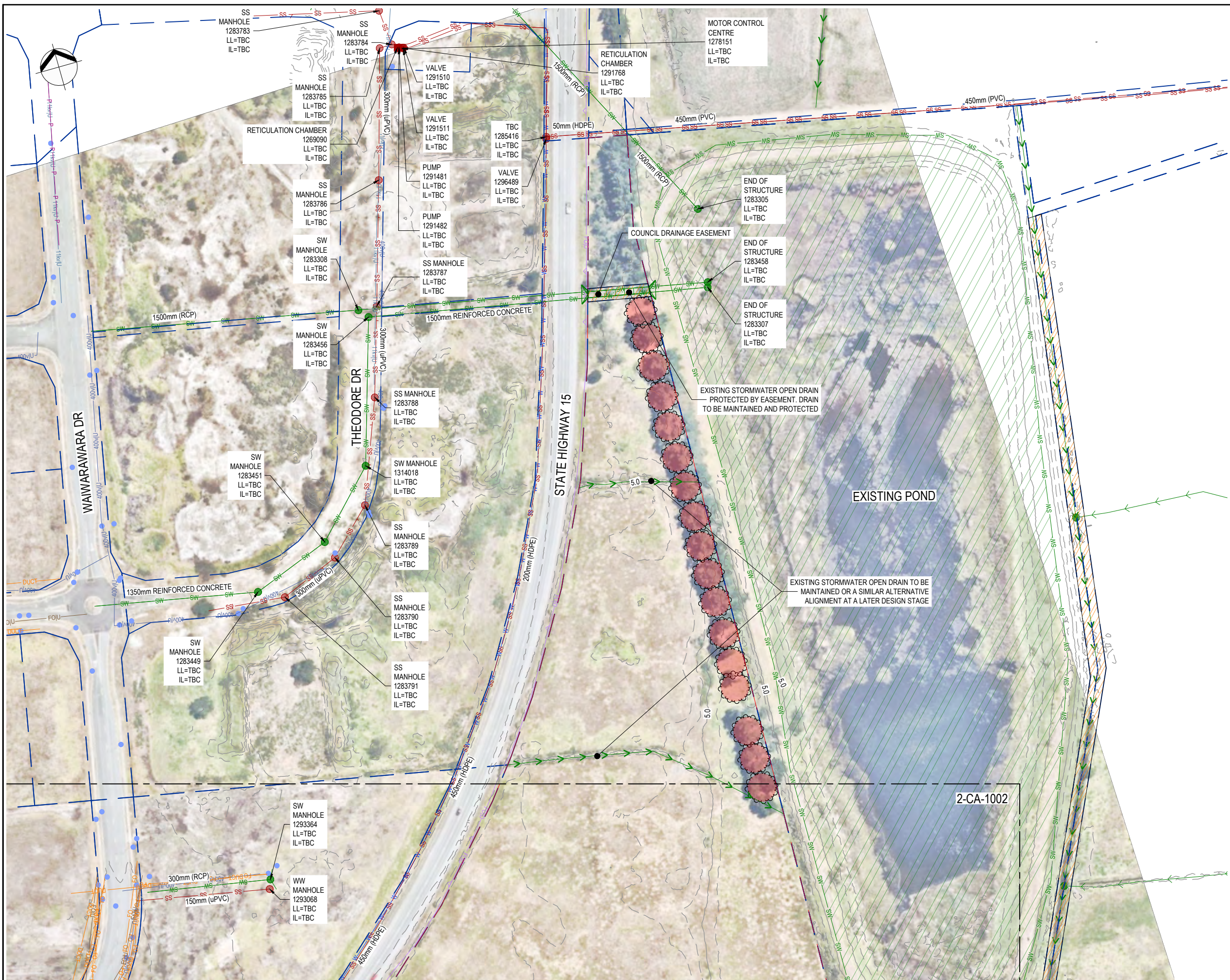


Client: Meridian
 Project: RUAKAKA SOLAR FARM SITE 2

Title: EXISTING SITE SERVICES, CLEARANCE AND DEMOLITION SHEET VIEWPORT LAYOUT PLAN

Discipline	CIVIL
Drawing No.	2318415-2CA-1000
Rev.	C

RESOURCE CONSENT
 NOT FOR CONSTRUCTION



LEGEND:

EXISTING

- BOUNDARY
- GAS
- COMMUNICATION
- TRANSPOWER LINE
- STORMWATER PIPE
- STORMWATER OPEN DRAIN
- SANITARY SEWER
- WATER
- CHORUS CABLE
- 5 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- SW CULVERT STRUCTURE
- TRANSPOWER POLE
- WATER DEVICE

EXISTING NORTHPOWER

- 400V OVERHEAD
- 400V UNDERGROUND
- 11kV OVERHEAD
- 11kV UNDERGROUND
- 33kV OVERHEAD
- 33kV UNDERGROUND
- POWER DUCT
- FOIU FIBRE UNDERGROUND
- FO FIBRE OVERHEAD
- DUCT FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

Original Scale (A1)	Design	Drawn	Design Date	Approved For Construction
1:1000	V.WHYTE	V.WHYTE	15.03.23	15.03.23
1:2000	Design Checker	Design Checker		



Client: **Meridian.**
Project: **RUAKĀKĀ SOLAR FARM SITE 2**

Title: **EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 1**

Discipline	Rev.
CIVIL	C
Drawing No.	2318415-2-CA-1001



LEGEND:

EXISTING

- BOUNDARY
- GAS
- COMMUNICATION
- TRANSPOWER LINE
- STORMWATER PIPE
- STORMWATER OPEN DRAIN
- SANITARY SEWER
- WATER
- CHORUS CABLE
- 5 m CONTOURS
- 1 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- SW CULVERT STRUCTURE
- TRANSPOWER POLE
- WATER DEVICE

EXISTING NORTHPOWER

- 400V OVERHEAD
- 400V UNDERGROUND
- 11kV OVERHEAD
- 11kV UNDERGROUND
- 33kV OVERHEAD
- 33kV UNDERGROUND
- POWER DUCT
- FIBRE UNDERGROUND
- FIBRE OVERHEAD
- FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

Original Scale (A1)	Design	Drawn	Date	Approved For Construction*
1:1000	V.WHYTE	V.WHYTE	15.03.23	15.03.23
Reduced Scale (A3)	Design	Drawn	Date	Approved For Construction*
1:2000	V.WHYTE	V.WHYTE	15.03.23	15.03.23



Client: **RUAKĀKĀ SOLAR FARM SITE 2**

Title: **EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 2**

Discipline	Rev.
CIVIL	C

Drawing No. 2318415-2CA-1002



LEGEND:

EXISTING

- BOUNDARY
- GAS
- COMMUNICATION
- TRANSPOWER LINE
- STORMWATER PIPE
- STORMWATER OPEN DRAIN
- SANITARY SEWER
- WATER
- CHORUS CABLE
- 5 m CONTOURS
- 1 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- SW CULVERT STRUCTURE
- TRANSPOWER POLE
- WATER DEVICE

EXISTING NORTHPOWER

- 400V OVERHEAD
- 400V UNDERGROUND
- 11kV OVERHEAD
- 11kV UNDERGROUND
- 33kV OVERHEAD
- POWER DUCT
- FOU FIBRE UNDERGROUND
- FO FIBRE OVERHEAD
- DUCT FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

**RESOURCE CONSENT
NOT FOR CONSTRUCTION**

C	FOR RESOURCE CONSENT	VW		02.08.23	Original Scale (A1)	1:1000
B	FOR RESOURCE CONSENT	VW	JS	10.07.23	Reduce Scale (A3)	1:2000
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23		
No.	Revision	By	Chk	Appd	Date	

Design	V.WHYTE	15.03.23	Approved For Construction*
Drawn	V.WHYTE	15.03.23	Date
Design Checker			
Drawn Checker			



Client: **RUAKAKA SOLAR FARM SITE 2**

Title: **EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 3**

Discipline	CIVIL
Drawing No.	2318415-2CA-1003
Rev.	C



LEGEND:

EXISTING

- BOUNDARY
- GAS
- COMMUNICATION
- TRANSPOWER LINE
- STORMWATER PIPE
- STORMWATER OPEN DRAIN
- SANITARY SEWER
- WATER
- CHORUS CABLE
- 5 m CONTOURS
- 1 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- SW CULVERT STRUCTURE
- TRANSPOWER POLE
- WATER DEVICE

EXISTING NORTHPOWER

- 400V OVERHEAD
- 400V UNDERGROUND
- 11kV OVERHEAD
- 11kV UNDERGROUND
- 33kV OVERHEAD
- POWER DUCT
- FIBRE UNDERGROUND
- FIBRE OVERHEAD
- FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

RESOURCE CONSENT
NOT FOR CONSTRUCTION

C	FOR RESOURCE CONSENT	VW		02.08.23
B	FOR RESOURCE CONSENT	VW	JS	10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23
No.	Revision	By	Chk	Appd

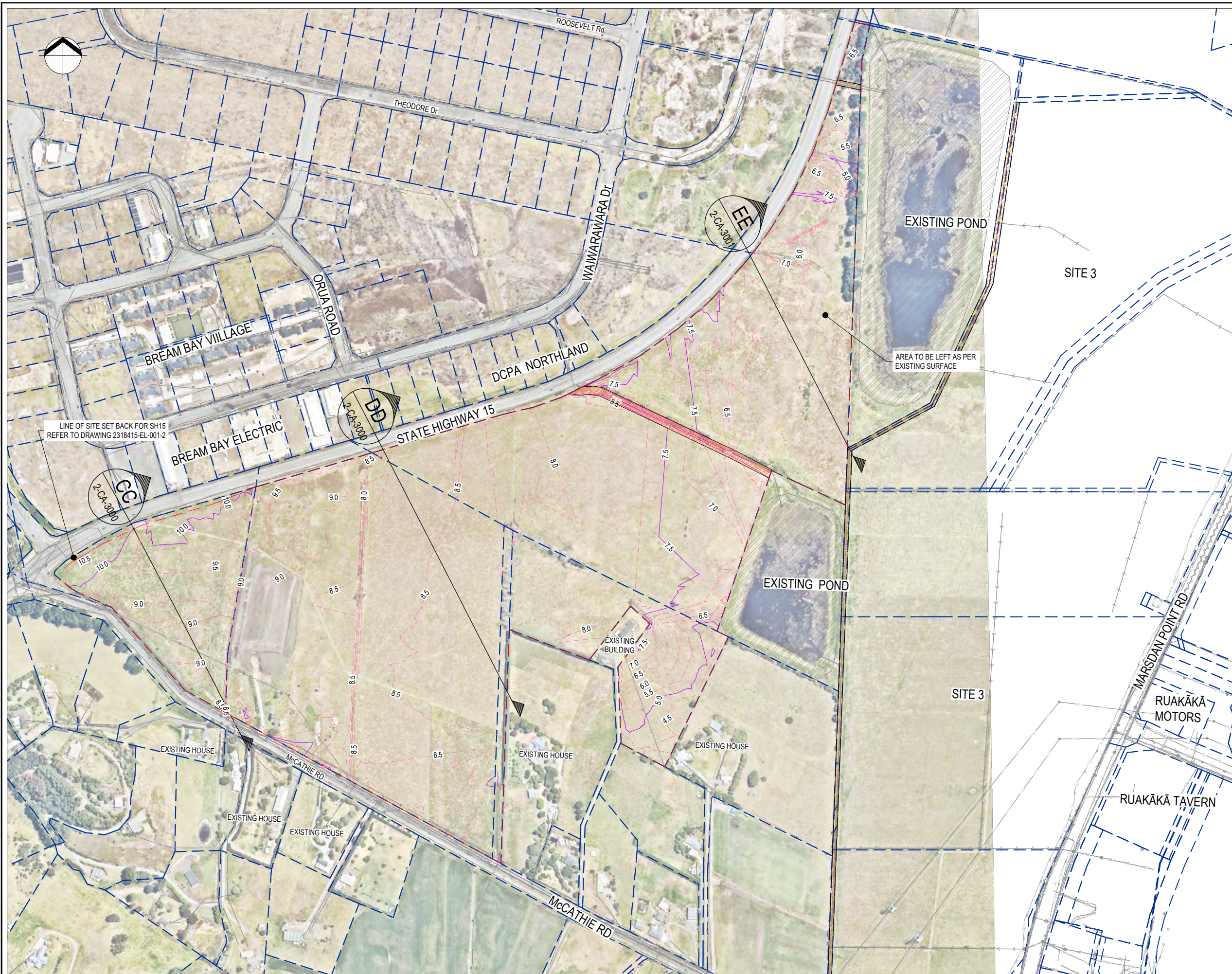
Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:1,000	Drawn	V.WHYTE	15.03.23	Date
Reduce Scale (A3)	Design Checker			
1:2,000	Design Checker			



Client: Meridian
Project: RUAKĀKĀ SOLAR FARM SITE 2

Title: EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 4

Discipline	CIVIL
Drawing No.	2318415-2CA-1004
Rev.	C



LEGEND:

EXISTING	
	BOUNDARY
	VEGETATION
	GARDEN/GRASS
	EDGE OF SEAL
	GAS
	COMMUNICATION
	TRANSPWER LINE
	STORMWATER
	OPEN DRAIN
	STORMWATER DRAIN
	SANITARY SEWER
	WATER
	CHORUS CABLE
	FIRST GAS UNDERGROUND
	GAS PIPE
	COUNCIL DRAIN
	COUNCIL EASEMENT
	CROWN EASEMENT
	SS MANHOLE
	SW DEVICE
	TRANSPWER POLE
	WATER DEVICE
EXISTING NORTHPOWER	
	400V OVERHEAD
	400V UNDERGROUND
	11KV OVERHEAD
	11KV UNDERGROUND
	33KV OVERHEAD
	POWER DUCT
	FIBRE UNDERGROUND
	FIBRE OVERHEAD
	FIBRE DUCT
	POWER POLE
PROPOSED	
	SITE EXTENT BOUNDARY
	BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
	KANUKA BLOCK
	2.5 m INDICATIVE CONTOURS
	0.5 m INDICATIVE CONTOURS

NOTE:
 THE CONTOURS SHOWN ON THIS PLAN ARE DERIVED FROM A DIGITAL MODEL. FOR CONSTRUCTION PURPOSES, THESE WOULD BE MADE MORE REGULAR TO IMPROVED CONSTRUCTABILITY. THIS ADJUSTMENT WOULD NOT CHANGE THE EXPECTED EFFECTS FROM EARTHWORKS

C	FOR RESOURCE CONSENT	VW		02.08.23
B	FOR RESOURCE CONSENT	VW	JS	10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23
No.	Revision	By	Chk	Appd

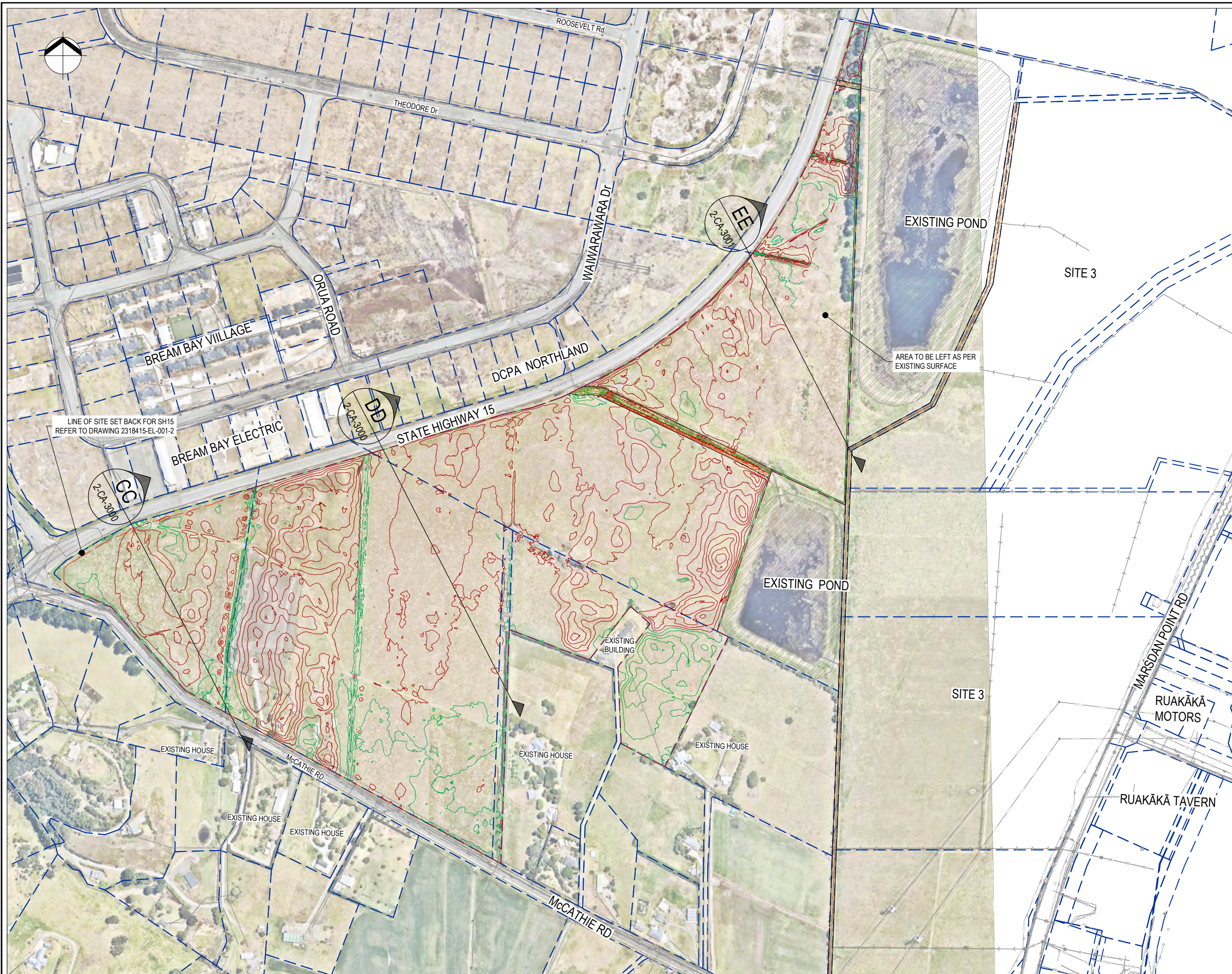
Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:2500	Drawn	V.WHYTE	15.03.23	Date
Reduce Scale (A3)	Dwg Verifier			
1:5000	Dwg Check			
	* Refer to Revision 1 for Original Signature			



Client: **Meridian.**
 Project: **RUAKĀKĀ SOLAR FARM SITE 2**

Title: **INDICATIVE FINISHED LEVEL PLAN**

Discipline	CIVIL
Drawing No.	2318415-2-CA-2001
Rev.	C



LEGEND:

EXISTING	
	BOUNDARY
	GAS
	COMMUNICATION
	TRANSPWER LINE
	STORMWATER
	OPEN DRAIN
	STORMWATER DRAIN
	SANITARY SEWER
	WATER
	CHORUS CABLE
	FIRST GAS UNDERGROUND
	GAS PIPE
	COUNCIL DRAIN
	COUNCIL EASEMENT
	CROWN EASEMENT
	SS MANHOLE
	SW DEVICE
	TRANSPWER POLE
	WATER DEVICE
EXISTING NORTHPOWER	
	400V OVERHEAD
	400V UNDERGROUND
	11KV OVERHEAD
	11KV UNDERGROUND
	33KV OVERHEAD
	POWER DUCT
	FIBRE UNDERGROUND
	FIBRE OVERHEAD
	FIBRE DUCT
	POWER POLE
PROPOSED	
	SITE EXTENT BOUNDARY
	BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
	KANUKA BLOCK
	INDICATIVE AREA OF CUT
	INDICATIVE AREA OF FILL

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:2500 <td>Drawn</td> <td>V.WHYTE <td>15.03.23 <td>Date</td> </td></td>	Drawn	V.WHYTE <td>15.03.23 <td>Date</td> </td>	15.03.23 <td>Date</td>	Date
Reduce Scale (A3)	Design Checker			
1:5000	Check			

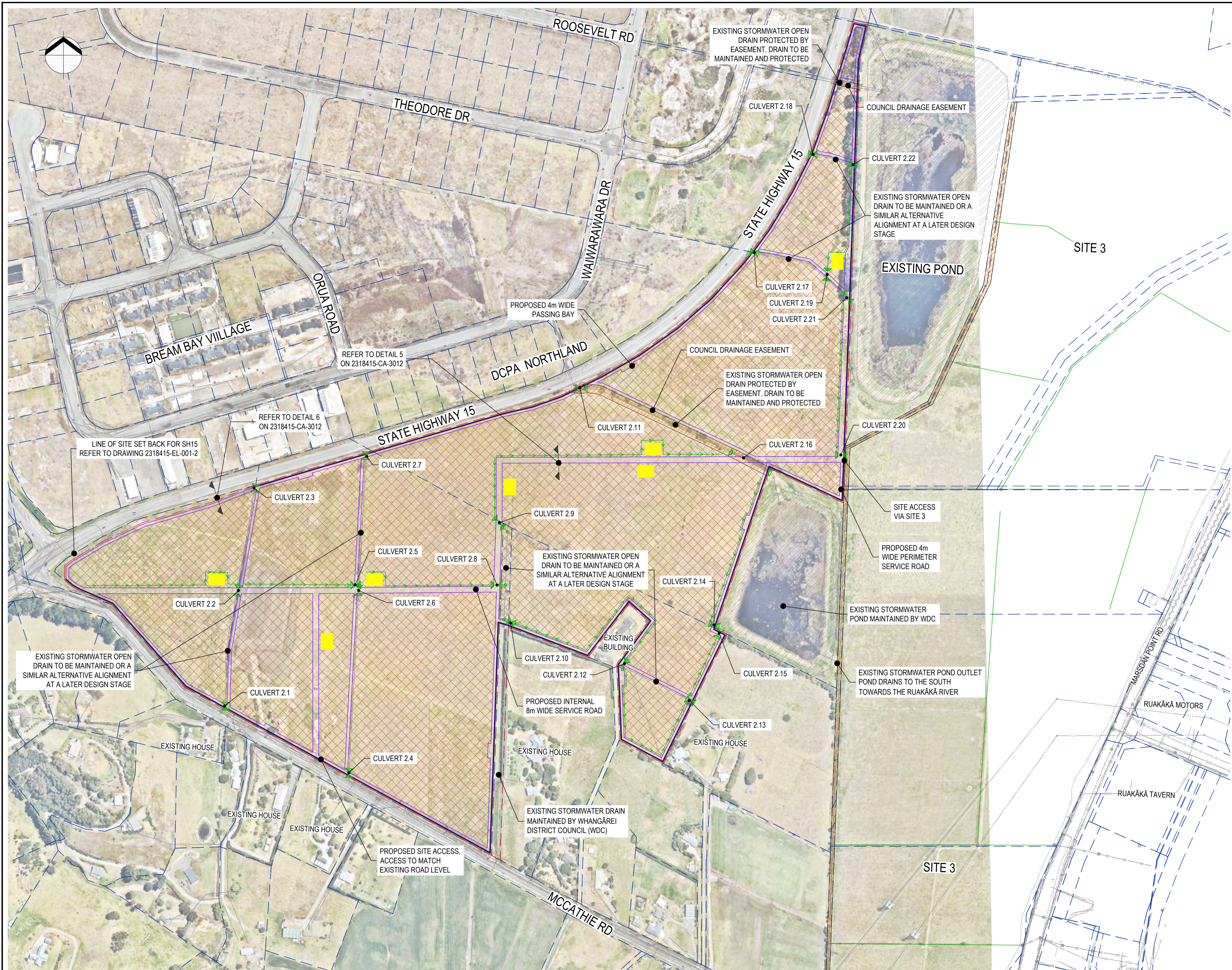


Client: **RUAKAKA SOLAR FARM SITE 2**

Title: **INDICATIVE EARTHWORK CUT AND FILL PLAN**

Discipline	Rev.
CIVIL	C

RESOURCE CONSENT NOT FOR CONSTRUCTION



LEGEND:

EXISTING

- BOUNDARY
- GAS
- COMMUNICATION
- TRANSPOWER LINE
- STORMWATER
- OPEN DRAIN
- STORMWATER DRAIN
- SANITARY SEWER
- WATER
- CHORUS CABLE
- STORMWATER OPEN DRAIN
- FIRST GAS UNDERGROUND
- GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- TRANSPOWER POLE
- WATER DEVICE
- CULVERT STRUCTURE

EXISTING NORTHPOWER

- 400V OVERHEAD
- 400V UNDERGROUND
- 11KV OVERHEAD
- 11KV UNDERGROUND
- 33KV OVERHEAD
- POWER DUCT
- FIBRE UNDERGROUND
- FIBRE OVERHEAD
- FIBRE DUCT

PROPOSED

- SITE EXTENT BOUNDARY
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- SERVICE ROAD
- WETLAND EXTENT
- STORMWATER OPEN DRAIN
- STORMWATER CULVERT
- SOLAR PANEL ZONE
- WETLAND
- TRANSPOWER PYLON
- MAINTENANCE RESERVE
- CULVERT HEADWALL
- MEDIUM VOLTAGE POWER STATION

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**RESOURCE CONSENT
NOT FOR CONSTRUCTION**

C	FOR RESOURCE CONSENT	VW		02.08.23
B	FOR RESOURCE CONSENT	VW	JS	10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23
No.	Revision	By	Chk	Appd

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:2500	Drawn	V.WHYTE	15.03.23	Date
Revised Scale (A3)	Dwg Verifier			
1:5000	Dwg Check			

* Refer to Revision 1 for Original Signature

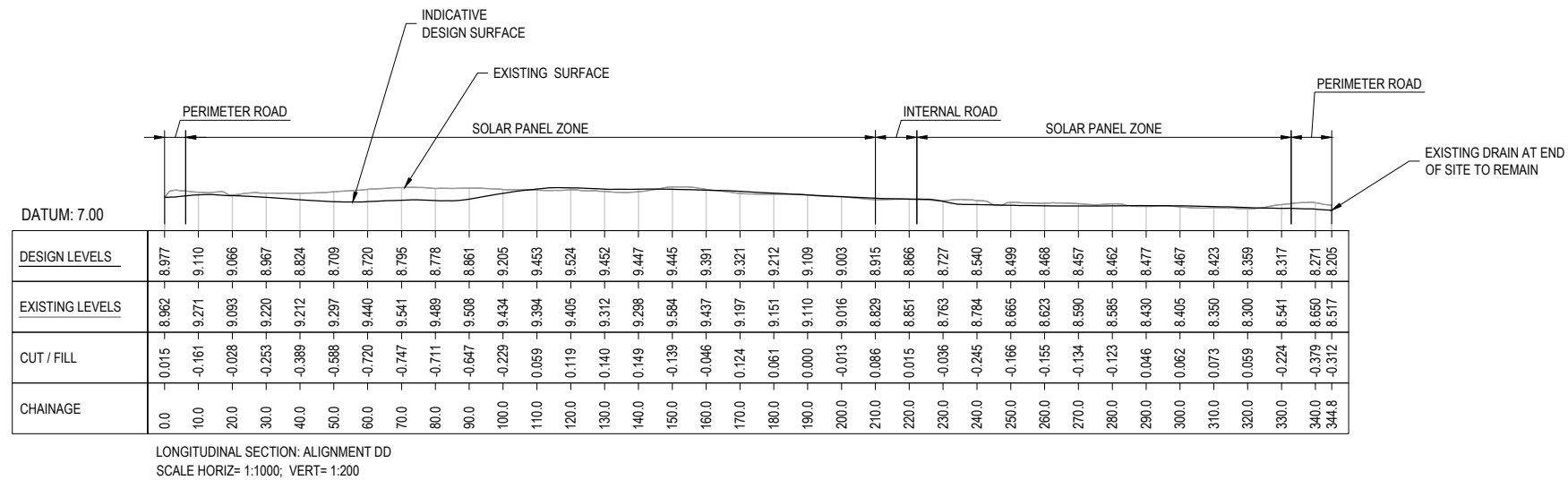
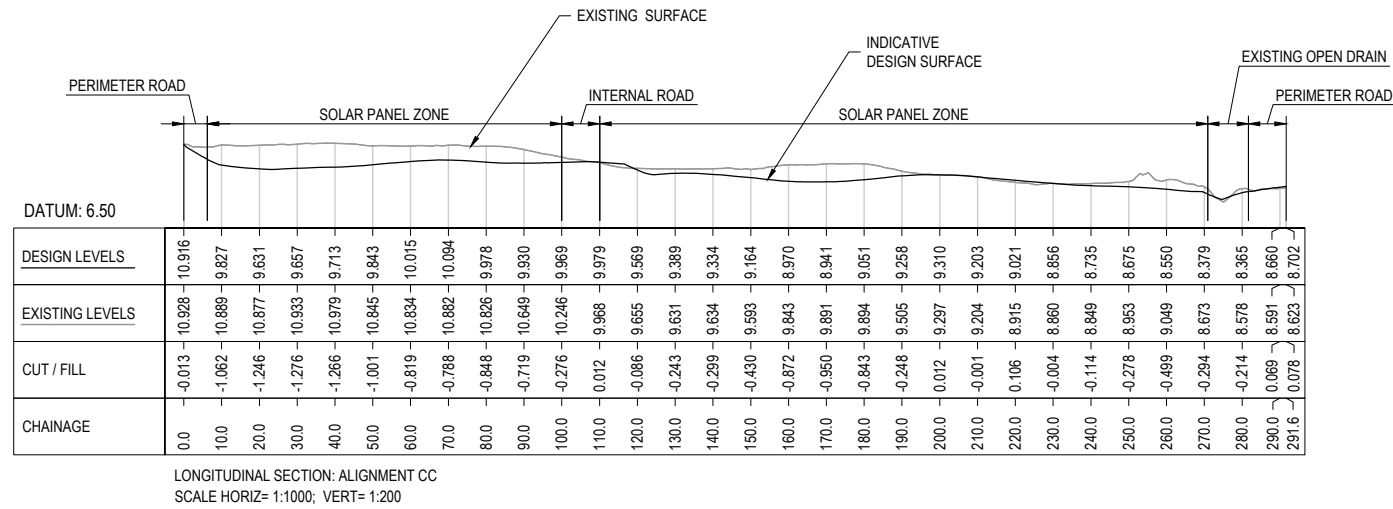


Client: _____

Project: **RUAKAKA SOLAR FARM
SITE 2**

Title: **INDICATIVE ROAD AND
STORMWATER LAYOUT PLAN**

Discipline	CIVIL
Drawing No.	2318415-2-CA-2010
Rev.	C



**RESOURCE CONSENT
NOT FOR CONSTRUCTION**

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
AS SHOWN	Drawn	V.WHYTE	15.03.23	
Reduced Scale (A3)	Design Verifier			
HALF SHOWN	Design Check			

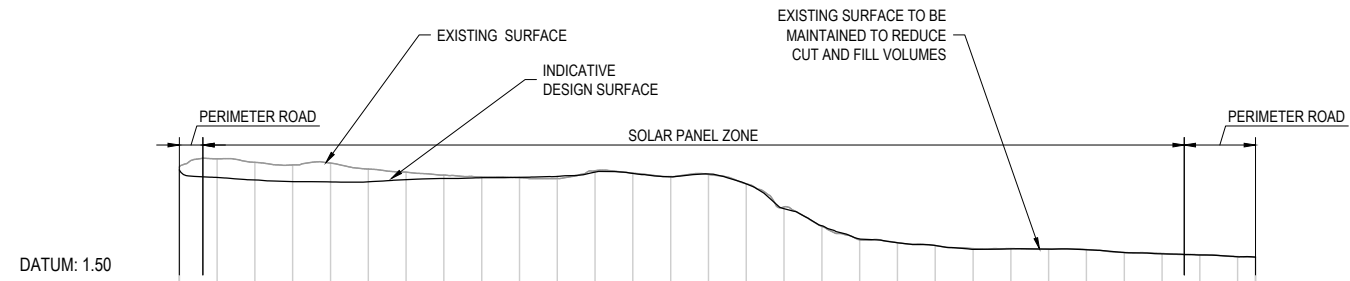
* Refer to Revision 1 for Original Signature



Project: RUAKAKA SOLAR FARM
SITE 2

Title: INDICATIVE LONG SECTION
SHEET 1

Discipline	CIVIL
Drawing No.	2318415-2-CA-3000
Rev.	C



DATUM: 1.50

CHAINAGE	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0	180.0	190.0	200.0	210.0	220.0	230.0	240.0	250.0	260.0	270.0	280.0	284.7
DESIGN LEVELS	7.459	7.061	6.925	6.840	6.820	6.828	6.941	7.002	7.044	7.067	7.114	7.345	7.273	7.089	7.242	6.721	5.409	4.504	3.805	3.602	3.457	3.258	3.281	3.262	3.234	3.088	3.021	2.958	2.865	2.841
EXISTING LEVELS	7.608	8.048	7.857	7.721	7.619	7.502	7.340	7.181	7.085	7.042	7.001	7.410	7.287	7.103	7.215	6.723	5.500	4.469	3.756	3.610	3.458	3.297	3.296	3.278	3.244	3.089	3.037	2.967	2.871	2.853
CUT / FILL	-0.149	-0.987	-0.933	-0.880	-0.999	-0.674	-0.399	-0.180	-0.041	-0.024	-0.113	-0.066	-0.014	-0.014	-0.026	-0.002	-0.090	-0.035	-0.049	-0.008	-0.001	-0.038	-0.015	-0.016	-0.010	-0.001	-0.017	-0.009	-0.006	-0.012

LONGITUDINAL SECTION: ALIGNMENT EE
SCALE HORIZ= 1:1000; VERT= 1:200

RESOURCE CONSENT
NOT FOR CONSTRUCTION

C	FOR RESOURCE CONSENT	VW		02.08.23	
B	FOR RESOURCE CONSENT	VW	JS	10.07.23	
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23	
No.	Revision	By	Chk	Appd	Date

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
AS SHOWN	Drawn	V.WHYTE	15.03.23	Date
Reduced Scale (A3)	Design Verifier			
HALF SHOWN	Dwg Check			

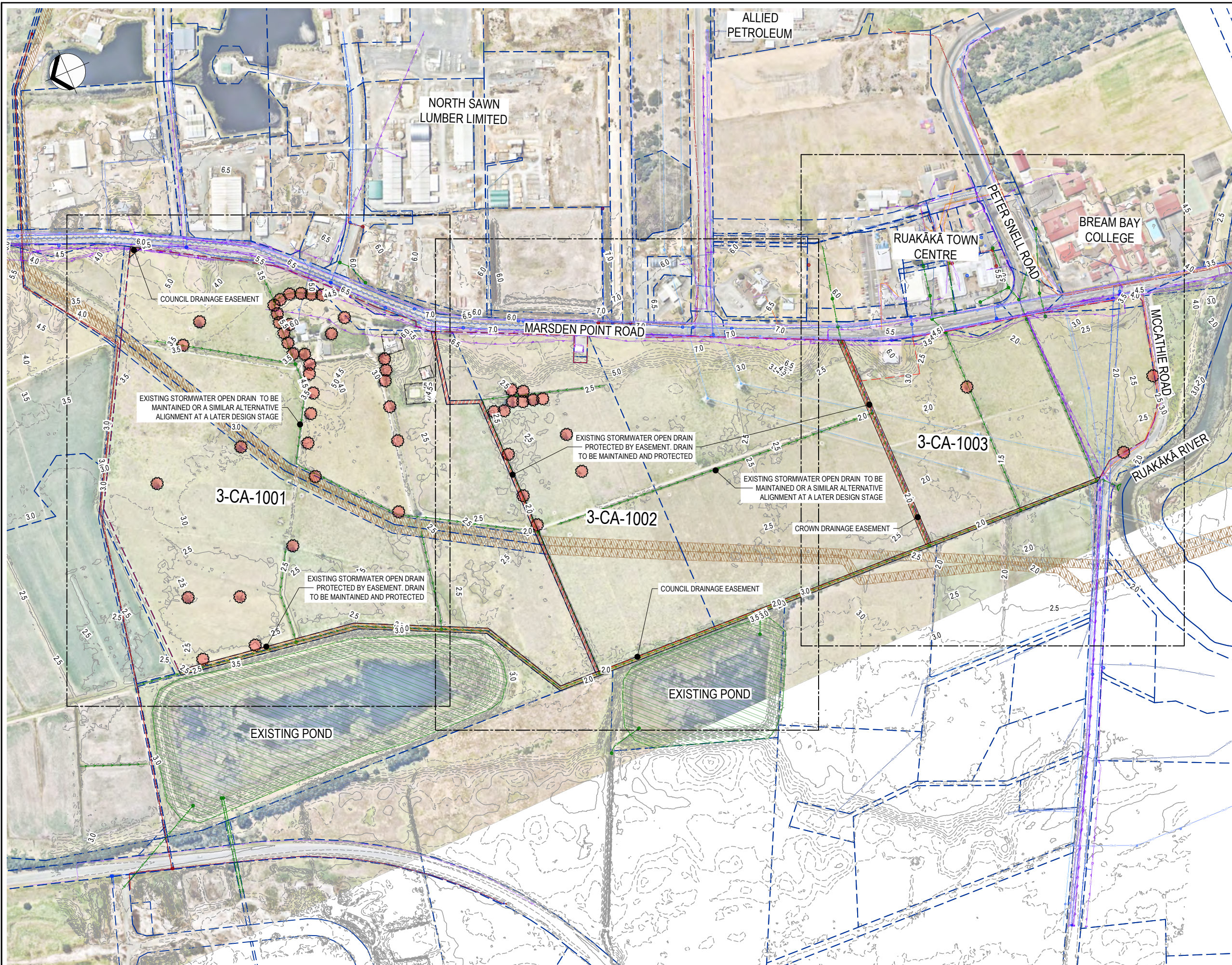
* Refer to Revision 1 for Original Signature



Project: RUAKAKA SOLAR FARM SITE 2

Title: INDICATIVE LONG SECTION SHEET 2

Discipline	CIVIL
Drawing No.	2318415-2-CA-3001
Rev.	C



LEGEND:

EXISTING

- G/U — GAS
- CCID — COMMUNICATION
- AAA — TRANSPower LINE
- SW — STORMWATER PIPE
- SS — SS — SANITARY SEWER
- W — W — WATER
- CCID — CHORUS CABLE
- 5 m — 5 m CONTOURS
- 1 m — 1 m CONTOURS
- — FIRST GAS UNDERGROUND GAS PIPE
- — COUNCIL DRAIN
- — COUNCIL EASEMENT
- — CROWN EASEMENT
- SS MANHOLE ● TRANSPower POLE
- SW DEVICE ● WATER DEVICE
- SW CULVERT STRUCTURE

EXISTING NORTHPOWER

- 400v/O — 400V OVERHEAD
- 400v/U — 400V UNDERGROUND
- 11kv/O — 11KV OVERHEAD
- 11kv/U — 11KV UNDERGROUND
- 33kv/O — 33KV OVERHEAD
- P — P — POWER DUCT
- FO/U — FIBRE UNDERGROUND
- FO — FO — FIBRE OVERHEAD
- DUCT — FIBRE DUCT
- POWER POLE

PROPOSED

- — SITE EXTENT BOUNDARY
- — BUILDING TO BE REMOVED
- — BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- — KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

C	FOR RESOURCE CONSENT	VW		02.08.23	Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
B	FOR RESOURCE CONSENT	VW	JS	10.07.23	1:2500	Drawn	V.WHYTE	15.03.23	Date
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23	Reduce Scale (A3)	Design Verifier			
No.	Revision	By	Chk	Appd	Date	Dtg Check			

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:2500	Drawn	V.WHYTE	15.03.23	Date
Reduce Scale (A3)	Design Verifier			
1:5000	Dtg Check			



Client: **RUAKAKA SOLAR FARM SITE 3**

Title: **EXISTING SITE SERVICES, CLEARANCE AND DEMOLITION SHEET VIEWPORT LAYOUT PLAN**

Discipline	CIVIL
Drawing No.	2318415-3CA-1000
Rev.	C

RESOURCE CONSENT NOT FOR CONSTRUCTION



LEGEND:

EXISTING

- GJU — GAS
- CCID — COMMUNICATION
- SW — SW
- SS — SS
- W — W — WATER
- CCID — CHORUS CABLE
- 5m — 5 m CONTOURS
- 1m — 1 m CONTOURS
- — FIRST GAS UNDERGROUND GAS PIPE
- — COUNCIL DRAIN
- — COUNCIL EASEMENT
- — CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- TRANSPOWER POLE
- WATER DEVICE
- SW CULVERT STRUCTURE

EXISTING NORTHPOWER

- 400V(O) — 400V OVERHEAD
- 400V(U) — 400V UNDERGROUND
- 11kv(O) — 11KV OVERHEAD
- 11kv(U) — 11KV UNDERGROUND
- 33kv(O) — 33KV OVERHEAD
- P — P — POWER DUCT
- FO(U) — FIBRE UNDERGROUND
- FO — FIBRE OVERHEAD
- DUCT — FIBRE DUCT
- POWER POLE

PROPOSED

- — SITE EXTENT BOUNDARY
- — BUILDING TO BE REMOVED
- — BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- — KANUKA BLOCK
- — TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

C	FOR RESOURCE CONSENT	VW		02.08.23
B	FOR RESOURCE CONSENT	VW	JS	10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23
No.	Revision	By	Chk	Appd

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:1000	Drawn	V.WHYTE	15.03.23	Date
Reduce Scale (A3)	Design Checker			
1:2000	Design Checker			

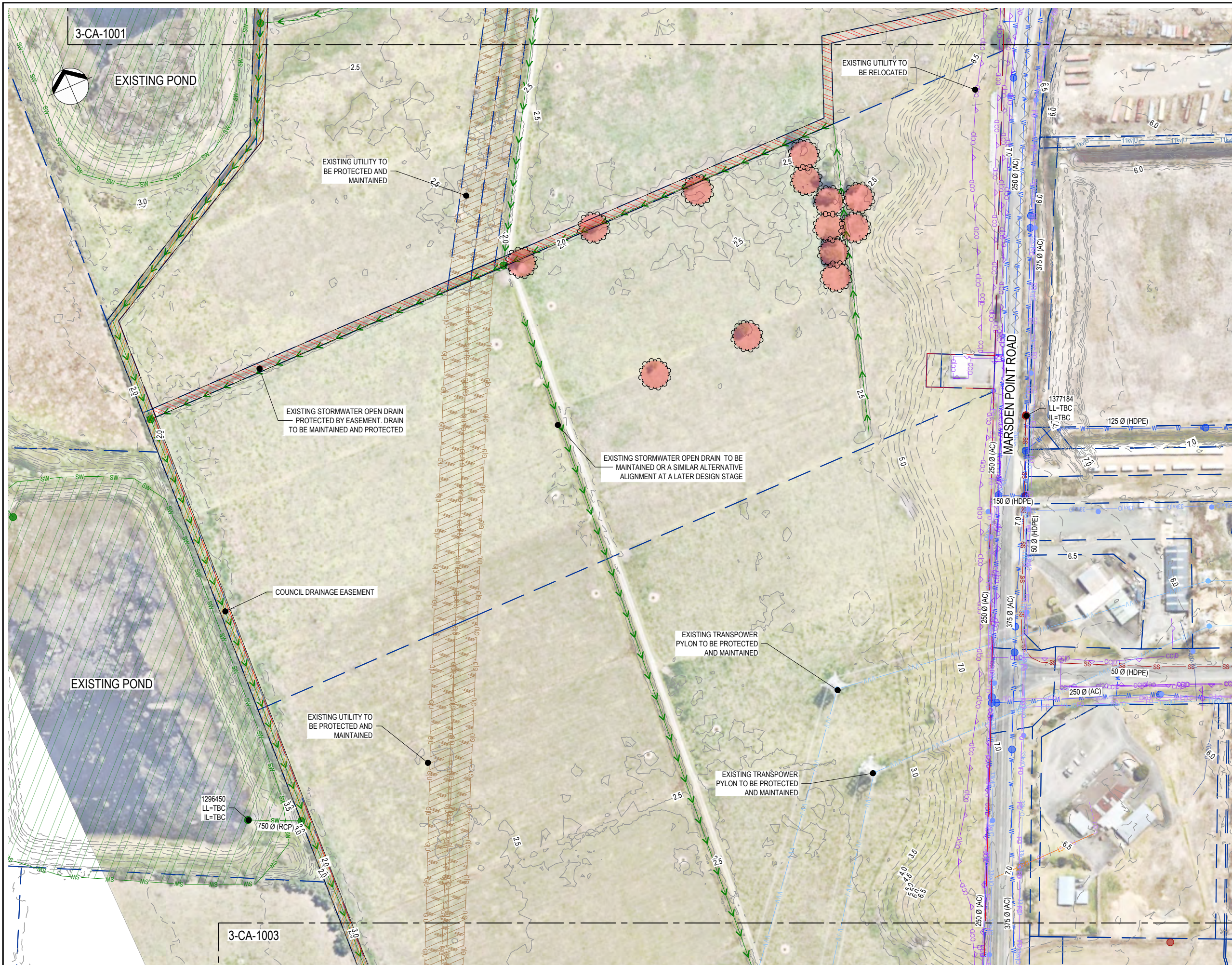


Client: **RUAKAKA SOLAR FARM SITE 3**

Title: **EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 1**

Discipline	CIVIL
Drawing No.	2318415-3CA-1001
Rev.	C

RESOURCE CONSENT NOT FOR CONSTRUCTION



LEGEND:

EXISTING

- GIU — GAS
- CCID — COMMUNICATION
- AAA — TRANSPOWER LINE
- SW — STORMWATER PIPE
- SS — SANITARY SEWER
- W — WATER
- CCID — CHORUS CABLE
- 5m — 5 m CONTOURS
- 1m — 1 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- TRANSPOWER POLE
- WATER DEVICE
- SW CULVERT STRUCTURE

EXISTING NORTHPOWER

- 400V O
- 400V U
- 11kV O
- 11kV U
- 33kV O
- P — POWER DUCT
- FOJU — FIBRE UNDERGROUND
- FO — FIBRE OVERHEAD
- DUCT — FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

RESOURCE CONSENT
NOT FOR CONSTRUCTION

C	FOR RESOURCE CONSENT	VW		02.08.23	Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
B	FOR RESOURCE CONSENT	VW	JS	10.07.23	1:1000	Drawn	V.WHYTE	15.03.23	
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23	Reduce Scale (A3)	Day Check			Date
No.	Revision	By	Chk	Appd	Date	* Refer to Revision 1 for Original Signature			

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:1000	Drawn	V.WHYTE	15.03.23	
Reduce Scale (A3)	Day Check			Date
1:2000	* Refer to Revision 1 for Original Signature			



Client: **RUAKĀKĀ SOLAR FARM SITE 3**

Title: **EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 2**

Discipline	CIVIL
Drawing No.	2318415-3-CA-1002
Rev.	C



LEGEND:

EXISTING

- GJU — GJU
- CCID — CCID
- SW — SW
- SS — SS
- W — W
- CCID — CCID
- CHORUS CABLE
- 5 m CONTOURS
- 1 m CONTOURS
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE
- SW DEVICE
- TRANSPOWER POLE
- WATER DEVICE
- SW CULVERT STRUCTURE

EXISTING NORTHPOWER

- 400V/O — 400V OVERHEAD
- 400V/U — 400V UNDERGROUND
- 11kV/O — 11KV OVERHEAD
- 11kV/U — 11KV UNDERGROUND
- 33kV/O — 33KV OVERHEAD
- P — P
- FOJU — FIBRE UNDERGROUND
- FO — FIBRE OVERHEAD
- DUCT — FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BUILDING TO BE REMOVED
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- TREE TO BE REMOVED-INDICATIVE LOCATION SHOWN

C	FOR RESOURCE CONSENT	VW		02.08.23
B	FOR RESOURCE CONSENT	VW	JS	10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23
No.	Revision	By	Chk	Appd

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:1000	Drawn	V.WHYTE	15.03.23	Date
Reduce Scale (A3)	Design Checker			
1:2000	Dwg Check			

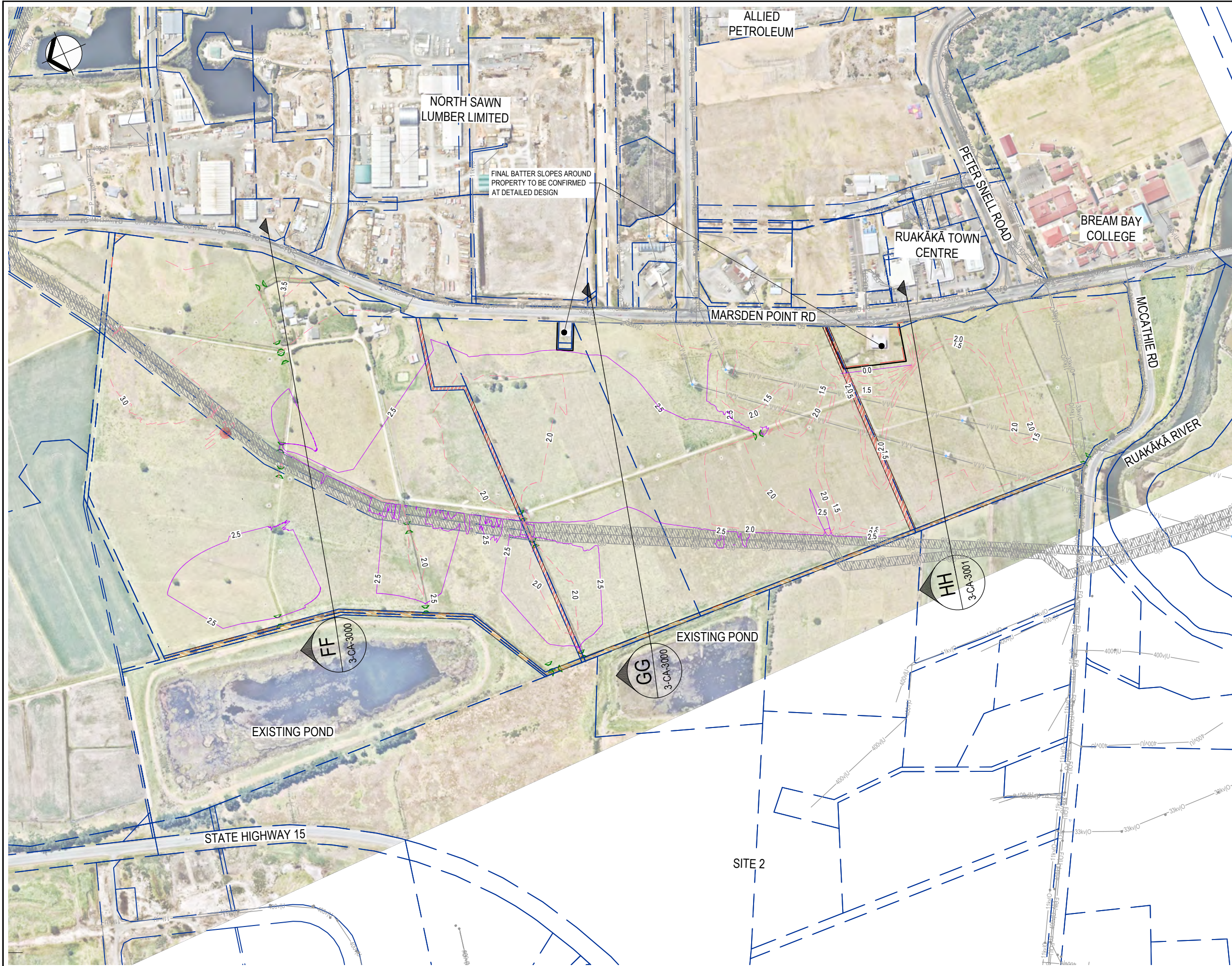


Client: **RUAKAKA SOLAR FARM SITE 3**

Title: **EXISTING SITE SERVICES CLEARANCE AND DEMOLITION PLAN SHEET 3**

Discipline	CIVIL
Document No.	2318415-3CA-1003
Rev.	C

RESOURCE CONSENT NOT FOR CONSTRUCTION



LEGEND:

EXISTING

- BOUNDARY
- VEGETATION
- GARDEN/GRASS
- EDGE OF SEAL
- GJU GJU GAS
- CCJD COMMUNICATION
- TPL TRANSPOR LINE
- SW SW STORMWATER
- OPEN DRAIN
- D D STORMWATER DRAIN
- SS SS SANITARY SEWER
- W W WATER
- CCJD CHORUS CABLE
- FIRST GAS UNDERGROUND GAS PIPE
- COUNCIL DRAIN
- COUNCIL EASEMENT
- CROWN EASEMENT
- SS MANHOLE ● TRANSPOR POLE
- SW DEVICE ● WATER DEVICE

EXISTING NORTHPOWER

- 400V(O) 400V OVERHEAD
- 400V(U) 400V UNDERGROUND
- 11kv(O) 11KV OVERHEAD
- 11kv(U) 11KV UNDERGROUND
- 33kv(O) 33KV OVERHEAD
- P P POWER DUCT
- FO(U) FIBRE UNDERGROUND
- FO FIBRE OVERHEAD
- DUCT FIBRE DUCT
- POWER POLE

PROPOSED

- SITE EXTENT BOUNDARY
- BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- KANUKA BLOCK
- 2.5 m INDICATIVE CONTOURS
- 0.5 m INDICATIVE CONTOURS

NOTE:
 THE CONTOURS SHOWN ON THIS PLAN ARE DERIVED FROM A DIGITAL MODEL. FOR CONSTRUCTION PURPOSES, THESE WOULD BE MADE MORE REGULAR TO IMPROVED CONSTRUCTIONABILITY. THIS ADJUSTMENT WOULD NOT CHANGE THE EXPECTED EFFECTS FROM EARTHWORKS

C	FOR RESOURCE CONSENT	VW		02.08.23	Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
B	FOR RESOURCE CONSENT	VW	JS	10.07.23	1:2500	Drawn	V.WHYTE	15.03.23	Date
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23	Reduce Scale (A3)	Digit Checker			
No.	Revision	By	Chk	Appd	Date	1:5000	* Refer to Revision 1 for Original Signature		

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:2500	Drawn	V.WHYTE	15.03.23	Date
Reduce Scale (A3)	Digit Checker			
1:5000	* Refer to Revision 1 for Original Signature			



Client: **RUAKĀKĀ SOLAR FARM SITE 3**

Title: **INDICATIVE FINISHED LEVEL PLAN**

Discipline	CIVIL
Drawing No.	2318415-3-CA-2001
Rev.	C

RESOURCE CONSENT NOT FOR CONSTRUCTION



LEGEND:

EXISTING

- G/U — G/U — BOUNDARY
- CC/D — CC/D — GAS
- A/A — A/A — COMMUNICATION
- SW — SW — TRANSPOWER LINE
- — — — STORMWATER
- — — — OPEN DRAIN
- D — D — D — STORMWATER DRAIN
- SS — SS — SANITARY SEWER
- W — W — W — WATER
- CC/D — CC/D — CHORUS CABLE
- — — — FIRST GAS UNDERGROUND GAS PIPE
- — — — COUNCIL DRAIN
- — — — COUNCIL EASEMENT
- — — — CROWN EASEMENT
- SS MANHOLE ● TRANSPOWER POLE
- SW DEVICE ● WATER DEVICE

EXISTING NORTHPOWER

- 400v/O — 400V OVERHEAD
- 400v/U — 400V UNDERGROUND
- 11kv/O — 11KV OVERHEAD
- 11kv/U — 11KV UNDERGROUND
- 33kv/O — 33KV OVERHEAD
- P — P — POWER DUCT
- FO/U — FO/U — FIBRE UNDERGROUND
- FO — FO — FIBRE OVERHEAD
- DUCT — DUCT — FIBRE DUCT
- POWER POLE

PROPOSED

- — — — SITE EXTENT BOUNDARY
- — — — BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- — — — KANUKA BLOCK
- — — — INDICATIVE AREA OF CUT
- — — — INDICATIVE AREA OF FILL

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RESOURCE CONSENT
NOT FOR CONSTRUCTION

C	FOR RESOURCE CONSENT	VW		02.08.23	Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
B	FOR RESOURCE CONSENT	VW	JS	10.07.23	1:2500	Drawn	V.WHYTE	15.03.23	Date
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23	Reduced Scale (A3)	Design Checker			
No.	Revision	By	Chk	Appd	Date	1:5000	* Refer to Revision 1 for Original Signature		

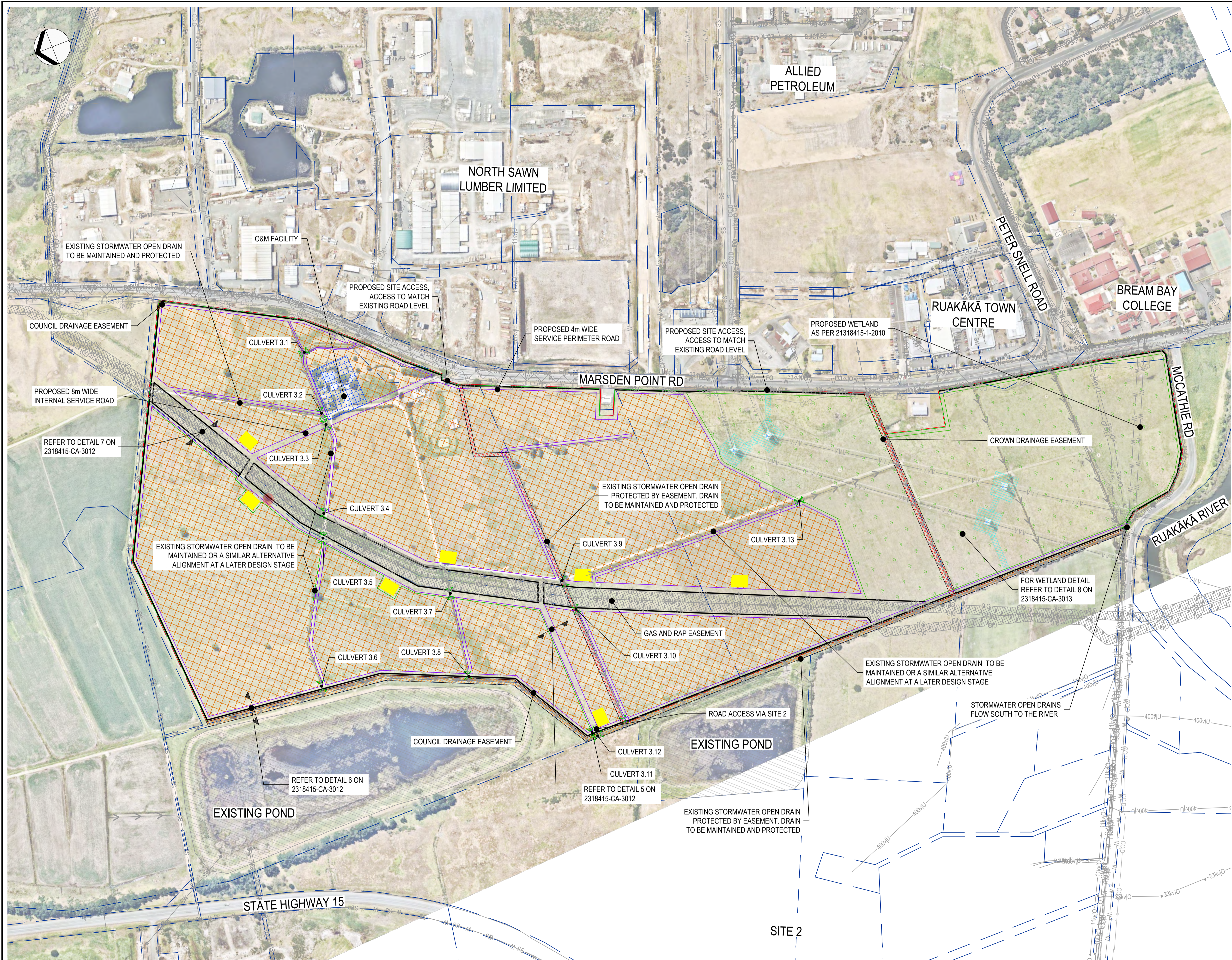
Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:2500	Drawn	V.WHYTE	15.03.23	Date
Reduced Scale (A3)	Design Checker			
1:5000	1:5000			



Client: **Meridian.** Project: **RUAKAKA SOLAR FARM SITE 3**

Title: **INDICATIVE EARTHWORK CUT AND FILL PLAN**

Discipline	CIVIL
Drawing No.	2318415-3-CA-2002
Rev.	C



LEGEND:

EXISTING

- G/U — G/U — GAS
- CC/D — CC/D — COMMUNICATION
- A/A — A/A — TRANSPOWER LINE
- SW — SW — STORMWATER
- D — D — D — OPEN DRAIN
- SS — SS — D — STORMWATER DRAIN
- W — W — W — SANITARY SEWER
- CC/D — CC/D — WATER
- CC/D — CC/D — CHORUS CABLE
- — — — STORMWATER OPEN DRAIN
- — — — FIRST GAS UNDERGROUND
- — — — GAS PIPE
- — — — COUNCIL DRAIN
- — — — COUNCIL EASEMENT
- — — — CROWN EASEMENT
- SS MANHOLE ● TRANSPOWER POLE
- SW DEVICE ● WATER DEVICE
- — — — CULVERT STRUCTURE

EXISTING NORTHPOWER

- 400v/O — 400V OVERHEAD
- 400v/U — 400V UNDERGROUND
- 11kv/O — 11KV OVERHEAD
- 11kv/U — 11KV UNDERGROUND
- 33kv/O — 33KV OVERHEAD
- P — P — P — POWER DUCT
- FO/U — FO/U — FIBRE UNDERGROUND
- FO — FO — FIBRE OVERHEAD
- DUCT — ● — FIBRE DUCT

PROPOSED

- — — — SITE EXTENT BOUNDARY
- — — — BATTERY ENERGY STORAGE SYSTEM (BESS) SITE
- — — — KANUKA BLOCK
- — — — SERVICE ROAD
- — — — WETLAND EXTENT
- — — — STORMWATER OPEN DRAIN
- — — — STORMWATER CULVERT
- — — — SOLAR PANEL ZONE
- — — — WETLAND
- — — — TRANSPOWER PYLON
- — — — MAINTENANCE RESERVE
- — — — CULVERT HEADWALL
- ■ ■ ■ MEDIUM VOLTAGE POWER STATION

**RESOURCE CONSENT
NOT FOR CONSTRUCTION**

C	FOR RESOURCE CONSENT	VW		02.08.23	Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
B	FOR RESOURCE CONSENT	VW	JS	10.07.23	1:2500	Drawn	V.WHYTE	15.03.23	Date
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23	Reduced Scale (A3)	Drawn			
No.	Revision	By	Chk	Appd	Date	1:5000			* Refer to Revision 1 for Original Signature

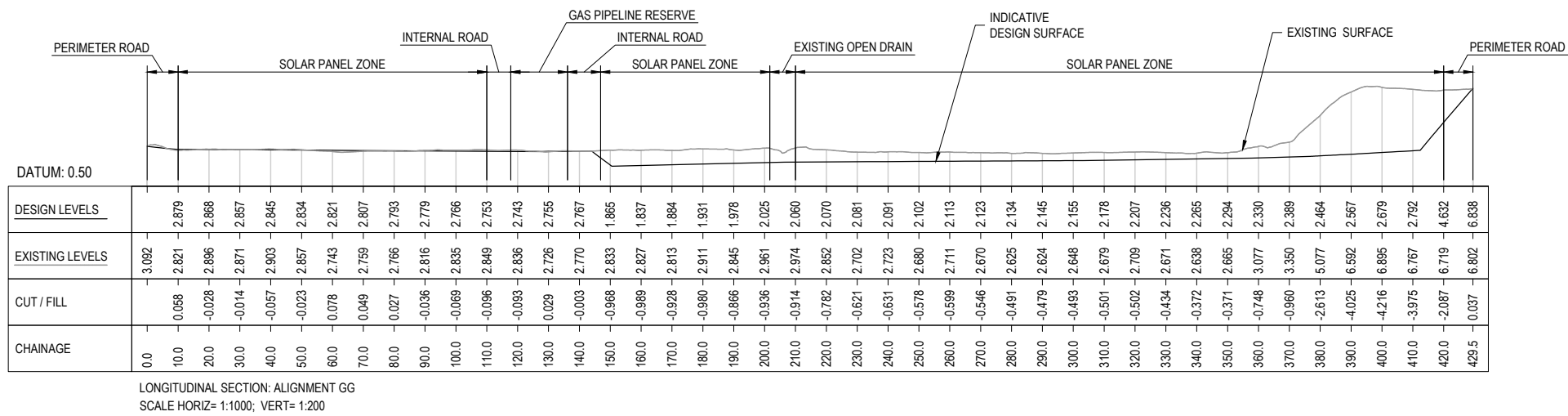
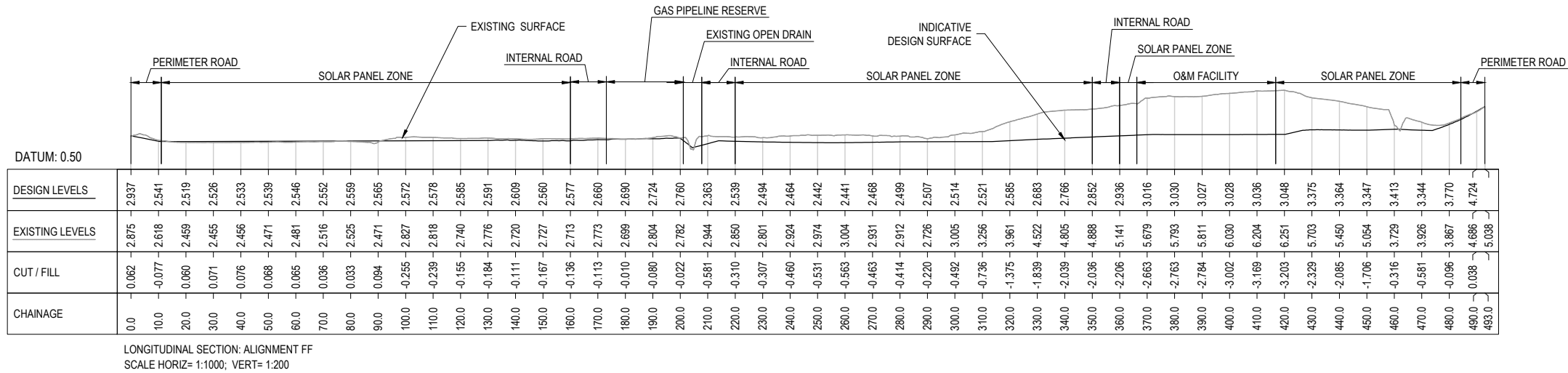
Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
1:2500	Drawn	V.WHYTE	15.03.23	Date
Reduced Scale (A3)	Drawn			
1:5000	Drawn			



Client: Meridian
Project: RUAKAKA SOLAR FARM SITE 3

Title: INDICATIVE ROAD AND STORMWATER LAYOUT PLAN

Discipline	CIVIL
Document No.	2318415-3-CA-2010
Rev.	C



**RESOURCE CONSENT
NOT FOR CONSTRUCTION**

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

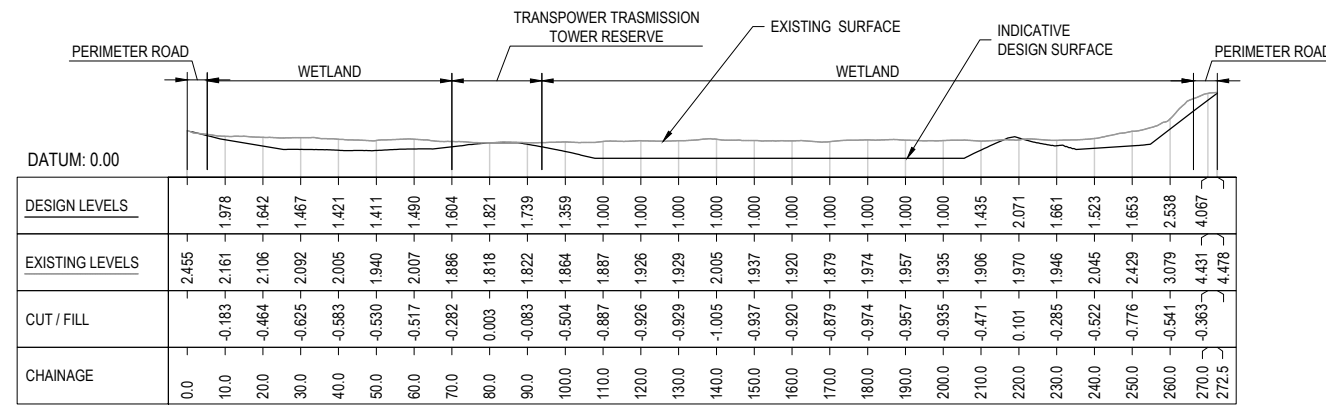
Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
AS SHOWN	Drawn	V.WHYTE <td>15.03.23</td> <td></td>	15.03.23	
Reduction Scale (A3)	Design Checker			
HALF SHOWN	By			



Client: **RUAKAKA SOLAR FARM SITE 3**

Title: **INDICATIVE LONG SECTION SHEET 1**

Discipline	CIVIL
Drawing No.	2318415-3-CA-3000
Rev.	C



LONGITUDINAL SECTION: ALIGNMENT HH
SCALE HORIZ= 1:1000; VERT= 1:200

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

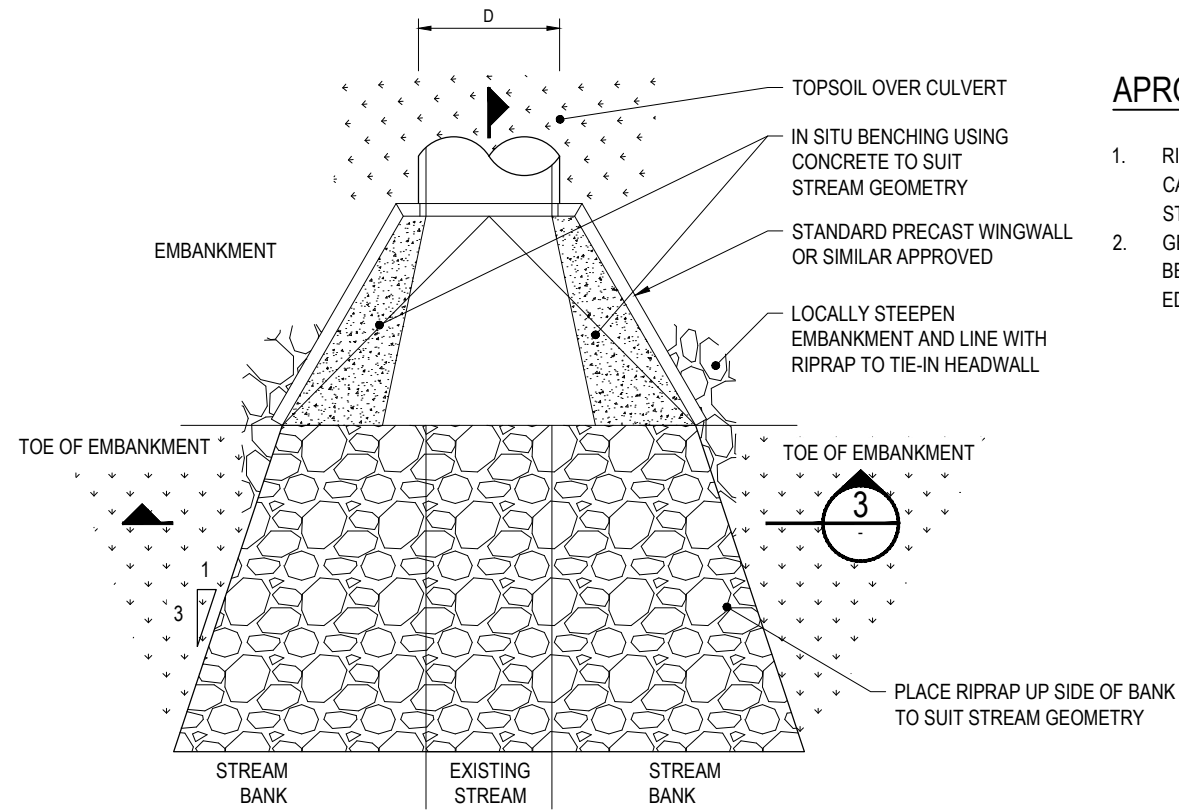
Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
AS SHOWN	Drawn	V.WHYTE	15.03.23	
Reduced Scale (A3)	Design Checker			
HALF SHOWN	By			



Client: **RUAKĀKĀ SOLAR FARM SITE 3**

Title: **INDICATIVE LONG SECTION SHEET 2**

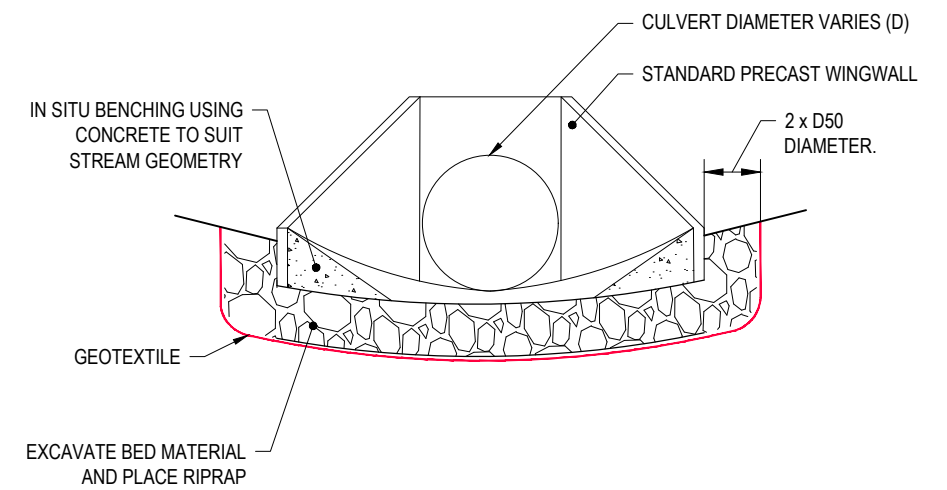
Discipline	CIVIL
Drawing No.	2318415-3-CA-3001
Rev.	C



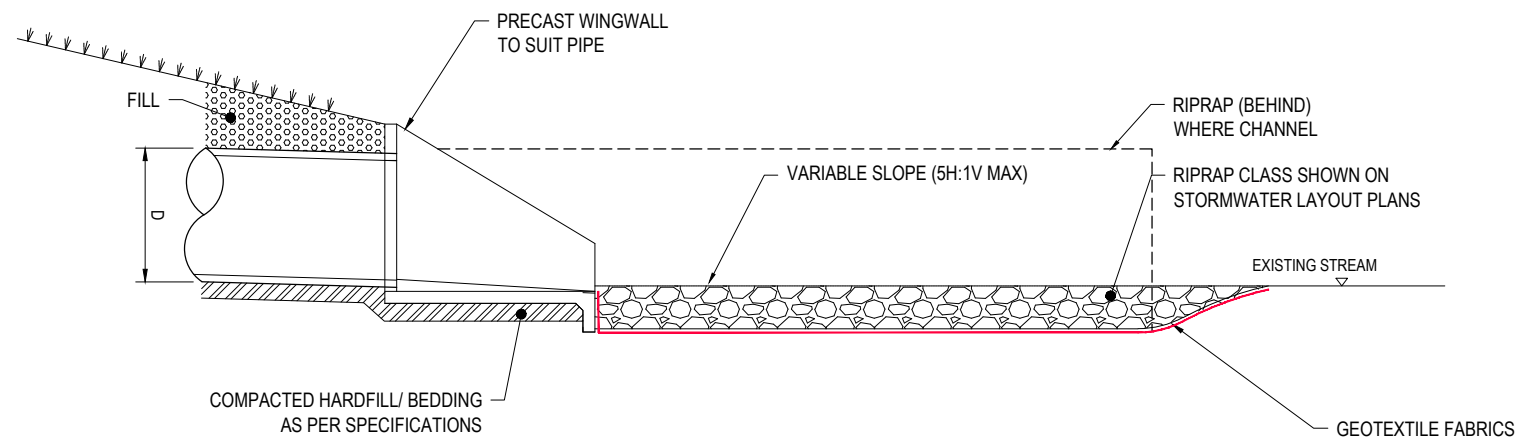
APRON NOTES:

1. RIPRAP APRON IS TO BE PLACED FLAT. WHERE THIS CANNOT BE ACHIEVED, THE APRON SHALL NOT BE STEEPER THAN 1.5H:1V
2. GEOTEXTILE MATERIAL TO OVERLAP AND EXTEND BEYOND ROCK. SECURE THE FILTER CLOTH AT THE EDGES VIA SECURE PINS

1 SINGLE BARREL PIPE - TYPICAL RIPRAP APRON
NTS



3 SINGLE BARREL PIPE - TYPICAL RIPRAP APRON
SCALE 1:50



2 TYPICAL RIPRAP SCOUR PROTECTION
SCALE 1:50

RESOURCE CONSENT
NOT FOR CONSTRUCTION

C	FOR RESOURCE CONSENT	VW		02.08.23
B	FOR RESOURCE CONSENT	VW	JS	10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS	01.06.23
No.	Revision	By	Chk	Appd

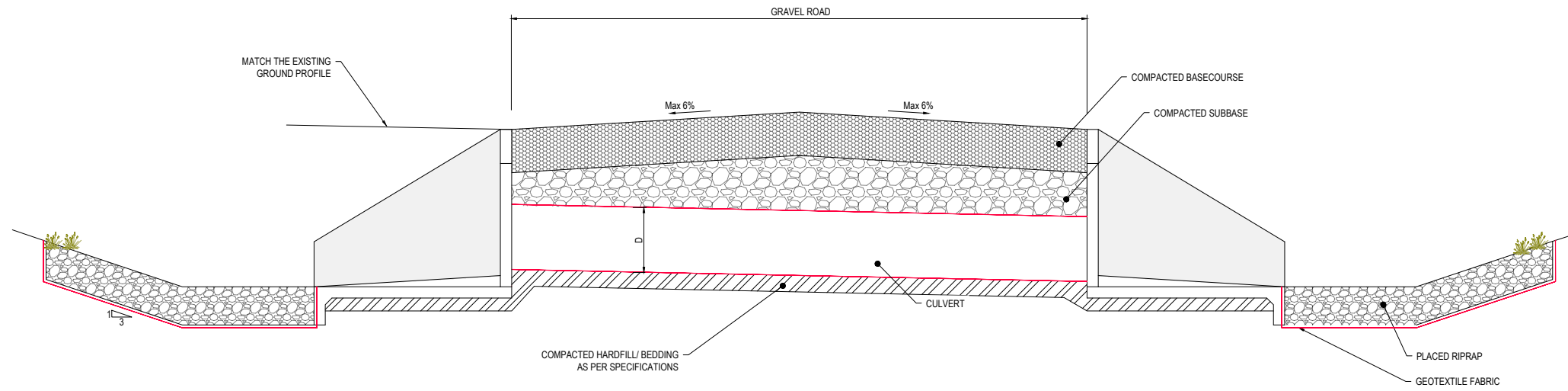
Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
AS SHOWN	Drawn	V.WHYTE	15.03.23	Date
Reduced Scale (A3)	Design Checker			
HALF SHOWN	Drawn			



Client: **RUAKAKA SOLAR FARM**

Title: **TYPICAL DETAILS CULVERT STRUCTURES**

Discipline	CIVIL
Drawing No.	2318415-CA-3010
Rev.	C



4 TYPICAL CULVERT UNDERNEATH ROAD DETAIL
SCALE NTS

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

Original Scale (A1)	Design	Drawn	Checked	Approved For Construction*
NTS	V.WHYTE	V.WHYTE		15.03.23
Reduced Scale (A3)	Design Verifier	Drawn	Checked	Date
NTS				

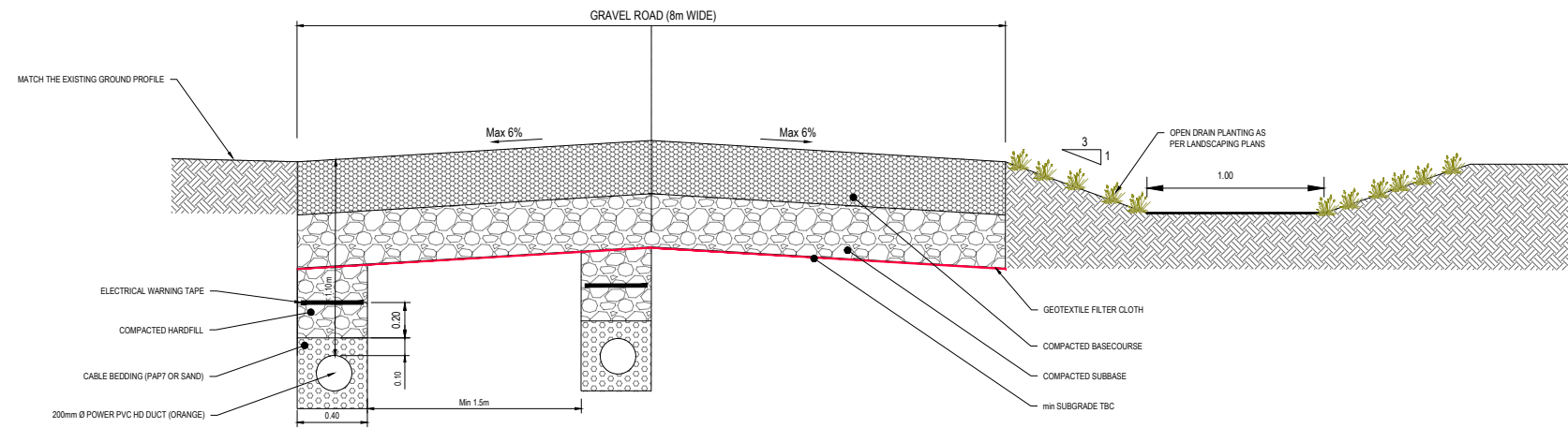


Client: Meridian.
Project: RUAKĀKĀ SOLAR FARM

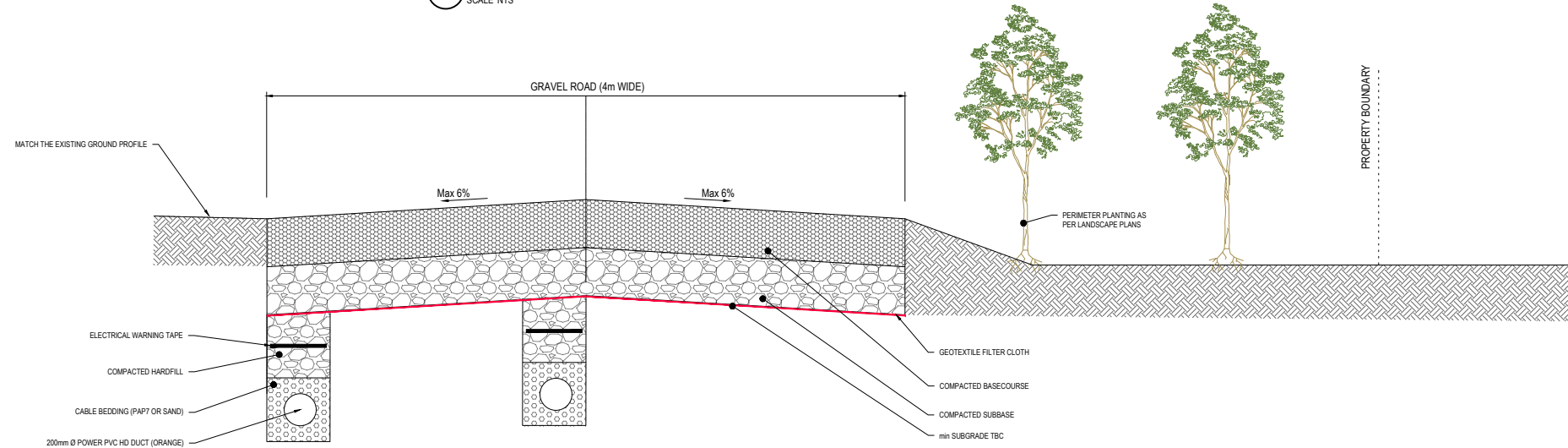
Title: TYPICAL DETAILS
CULVERT CROSS-SECTION

Discipline	Rev.
CIVIL	C
Drawing No.	2318415-CA-3011

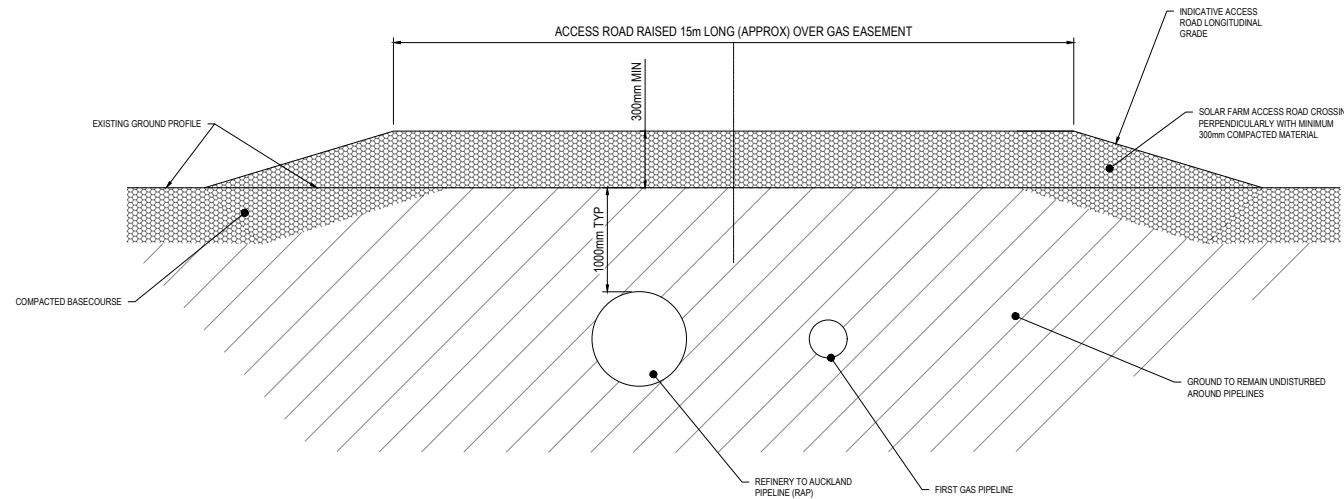
RESOURCE CONSENT
NOT FOR CONSTRUCTION



5 TYPICAL INTERNAL ROAD SECTION
SCALE NTS



6 TYPICAL PERIMETER ROAD SECTION
SCALE NTS



7 TYPICAL PERPENDICULAR ROAD SECTION ACROSS FIRSTGAS PIPELINE
SCALE NTS

**RESOURCE CONSENT
NOT FOR CONSTRUCTION**

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
NTS	Drawn	V.WHYTE <td>15.03.23</td> <td>Date</td>	15.03.23	Date
Reduced Scale (A3)	Design Checker			
NTS	Dtg Check			

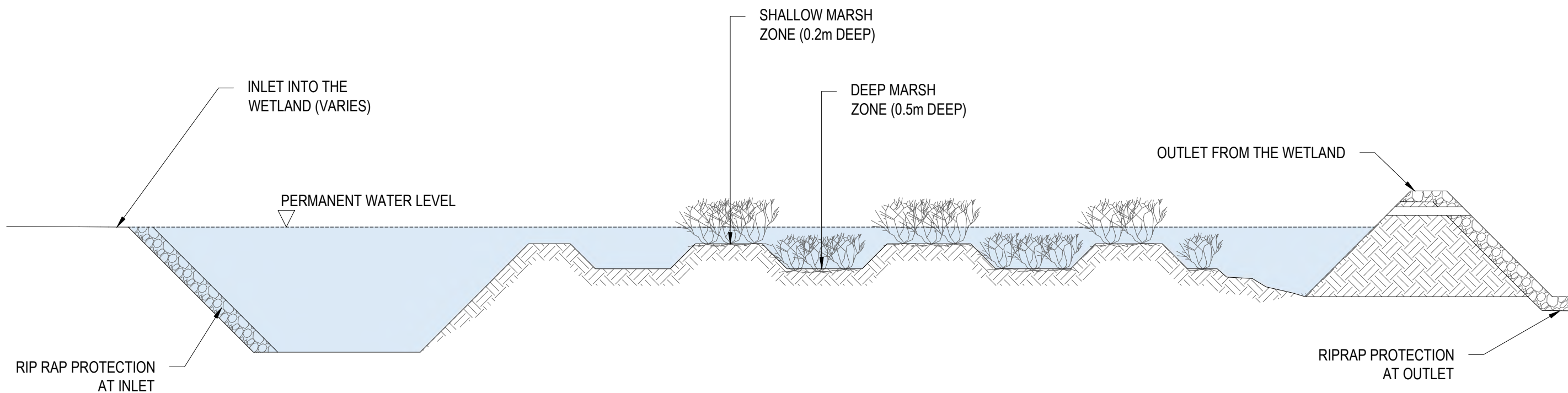
* Refer to Revision 1 for Original Signature



Client: **Meridian.**
Project: **RUAKAKA SOLAR FARM**

Title: **TYPICAL DETAILS
ROAD CROSS-SECTIONS**

Discipline	CIVIL
Drawing No.	2318415-CA-3012
Rev.	C



8 TYPICAL WETLAND CROSS SECTION
SCALE NTS

**RESOURCE CONSENT
NOT FOR CONSTRUCTION**

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	VW			02.08.23
B	FOR RESOURCE CONSENT	VW	JS		10.07.23
A	DRAFT - FOR CLIENT REVIEW	VW	JS		01.06.23

Original Scale (A1)	Design	V.WHYTE	15.03.23	Approved For Construction*
NTS	Drawn	V.WHYTE	15.03.23	
Reduced Scale (A3)	Dwg Verifier			
NTS	Dwg Check			

* Refer to Revision 1 for Original Signature



Client: **Meridian.**
Project: **RUAKĀKĀ SOLAR FARM**

Title: **TYPICAL DETAILS
WETLAND CROSS-SECTION**

Discipline	CIVIL
Drawing No.	2318415-CA-3013
Rev.	C