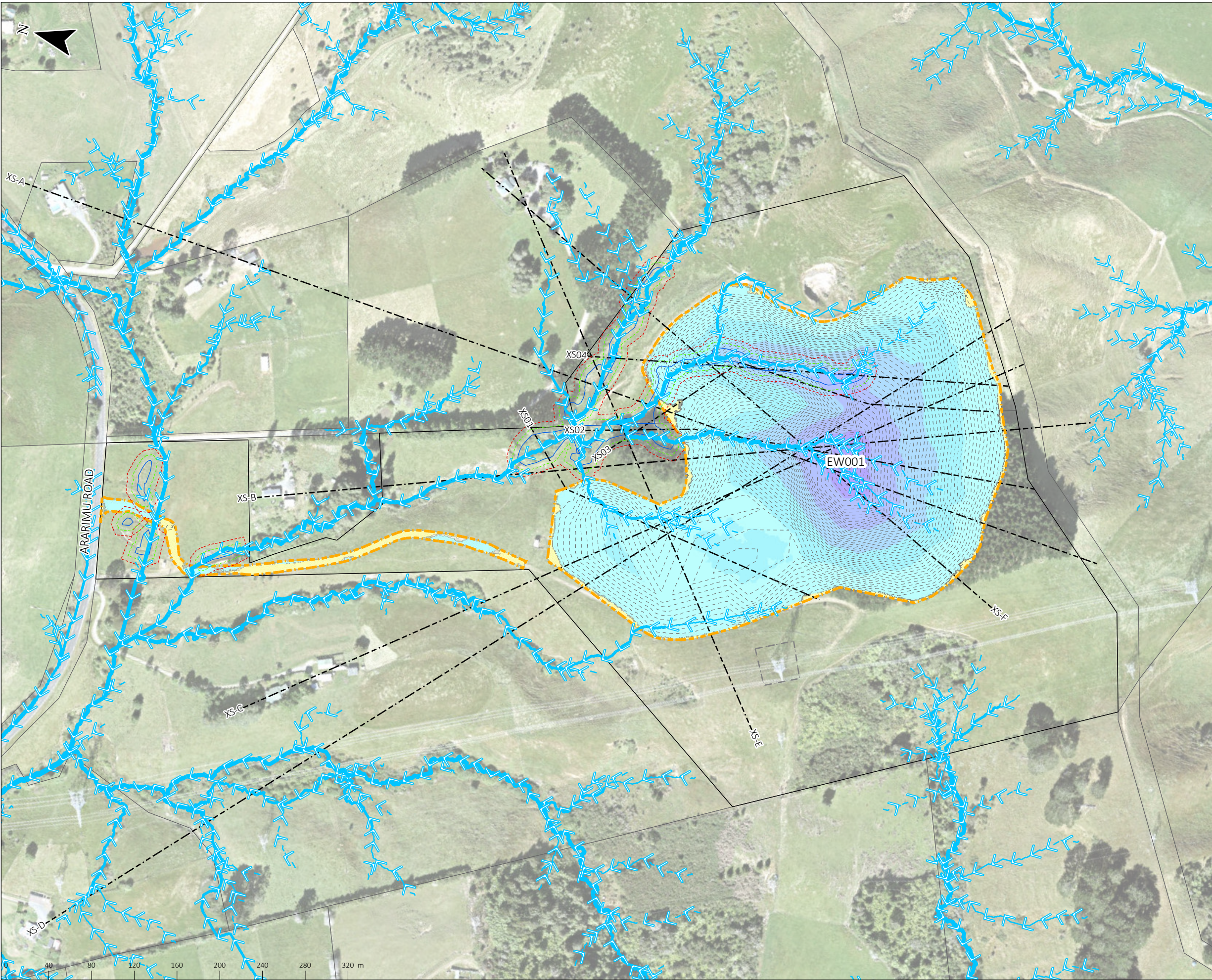


Appendix G: Civil Design Plans



LEGEND:

RETAINING WALLS W DRAINAGE (H=HEIGHT, C=CHAINAGE, ARROWS SHOW FALL DIRECTION)

--- EARTHWORKS EXTENT
--- EARTHWORKS SECTIONS
--- BUILDINGS
--- NEW PARCELS
--- EXISTING PARCELS
--- EXISTING KERBLINES
--- EXISTING IMPERVIOUS
--- EXISTING BUILDINGS
--- WETLAND
--- WETLAND 5m OFFSET
--- WETLAND 10m OFFSET
--- NATIONAL GRID YARD- 12M

NZ_Roads
--- EXISTING PARCELS
--- EXISTING IMPERVIOUS
--- EXISTING BUILDINGS
CUTFILL
CUTFILL
-50.00--40.00m
-40.00--30.00m
-30.00--20.00m
-20.00--10.00m
-0.05--10.00m
-0.05-0.05m

0.05-10.00m
10.00-20.00m
20.00-30.00m
30.00-40.00m
40.00-50.00m

OLFP
CATCHMENT_AREA_GROUP
2000m2 to 4000m2
4000m2 to 1ha
1ha to 3ha
3ha to 100ha
100ha and above

EW ID	UNITS	EW001	EW002	TOTAL
AREA	m²	98,951	3,635	102,587
AREA OF FILL	m²	95,734	1,245	96,979
AREA OF CUT	m²	3,215	2,389	5,604
CUT	m²	731	1,246	1,976
BULK TOTAL CUT	m²	731	1,246	1,976
MAX CUT DEPTH	m	1.5	2.5	2.5
BULK FILL	m³	1,341,824	394	1,342,218
FILL +15% BF	m³	1,543,097	453	1,543,551
BULK TOTAL FILL	m³	1,341,824	394	1,342,218
FILL IMPORT	m³	0	1,541,574	1,541,574
CUT TO FILL	m³	1,976	1	1,976
CUT TO WASTE	m³	0	0	0
BULK TOTAL VOLUME	m³	1,342,555	1,640	1,344,194
MAX FILL HEIGHT	m	45.1	1.4	45.1
BULK IMPORT	Trucks	0	256,929	256,929
BULK TO WASTE	Trucks	0	0	0
BULK TOTAL	Trucks	0	256,929	256,929
TOPSOIL STRIP TO WASTE	m³	0	0	0
TOPSOIL STR. TO STOCKPILE	m³	0	0	0
TOPSOIL TOTAL STRIP	m³	0	0	0
TOPSOIL PL. FR. STOCKPILE	m³	0	0	0
TOPSOIL PL. FR. IMPORT	m³	21,911	186	22,097
TOPSOIL TOTAL PLACE	m³	21,911	186	22,097
TOPSOIL TOTAL VOLUME	m³	21,911	186	22,097
TOPSOIL IMPORT TRUCKS	Trucks	0	0	0
TOPSOIL TO WASTE TRUCKS	Trucks	0	0	0
TOPSOIL TOTAL TRUCKS	Trucks	0	0	0
EARTHWORKS TOT. VOL.	m³	1,364,466	1,825	1,366,291
EARTHWORKS TOTAL TRUCKS	Trucks	0	256,929	256,929

- NOTES:
1. ALL WORKS TO COMPLY WITH COUNCIL AND PUBLIC NETWORK OPERATOR STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND STANDARDS TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.
 2. THE CONTRACTOR IS TO PEG INFRASTRUCTURE LOCATIONS AND EARTHWORKS LEVELS PRIOR TO ORDERING MATERIALS.
 3. UNDERFILL DRAINAGE IS TO BE INSTALLED AT THE DIRECTION OF THE ENGINEER. IF THE CONTRACTOR ENCOUNTERS SPRINGS OR OTHER SOURCES OF WATER, THEY ARE TO NOTIFY THE ENGINEER.
 4. EARTHWORKS ARE NOT TO BE EXTENDED INTO ADJOINING SITES UNLESS THE ENGINEER HAS ISSUED SPECIFIC INSTRUCTIONS.
 5. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND PROTECTING EXISTING SERVICES AND DRAINAGE ON SITE.
 6. THE CONTRACTOR SHALL CLARIFY THE AREAS AND EXTENT OF CLEARING WITH THE ENGINEER BEFORE COMMENCEMENT AND CONFIRM THAT ALL NECESSARY CONSENTS ARE IN PLACE.
 7. EARTHWORKS TOLERANCES ARE TO BE +25mm.
 8. ALL VOLUMES ARE SOLID MEASURE, NO BULKING FACTOR APPLIED UNLESS OTHERWISE NOTED.
 9. RETAINING WALL SETOUT - EXACT SETTING OUT POSITION OF RETAINING WALLS IN RELATION TO LOT BOUNDARIES AND BUILDINGS TO BE OBTAINED FROM ARCHITECT OR STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION COMMENCING.

IMAGERY CREDITS
LINZ, Stats NZ, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS, Auckland Council, CoLAB, Maxar

SCAN FOR 3D:	REV	DATE	DESCRIPTION	DES	REV	REL	LOGO
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	A	30/08/23	FOR RESOURCE CONSENT	DF	MO	MO	



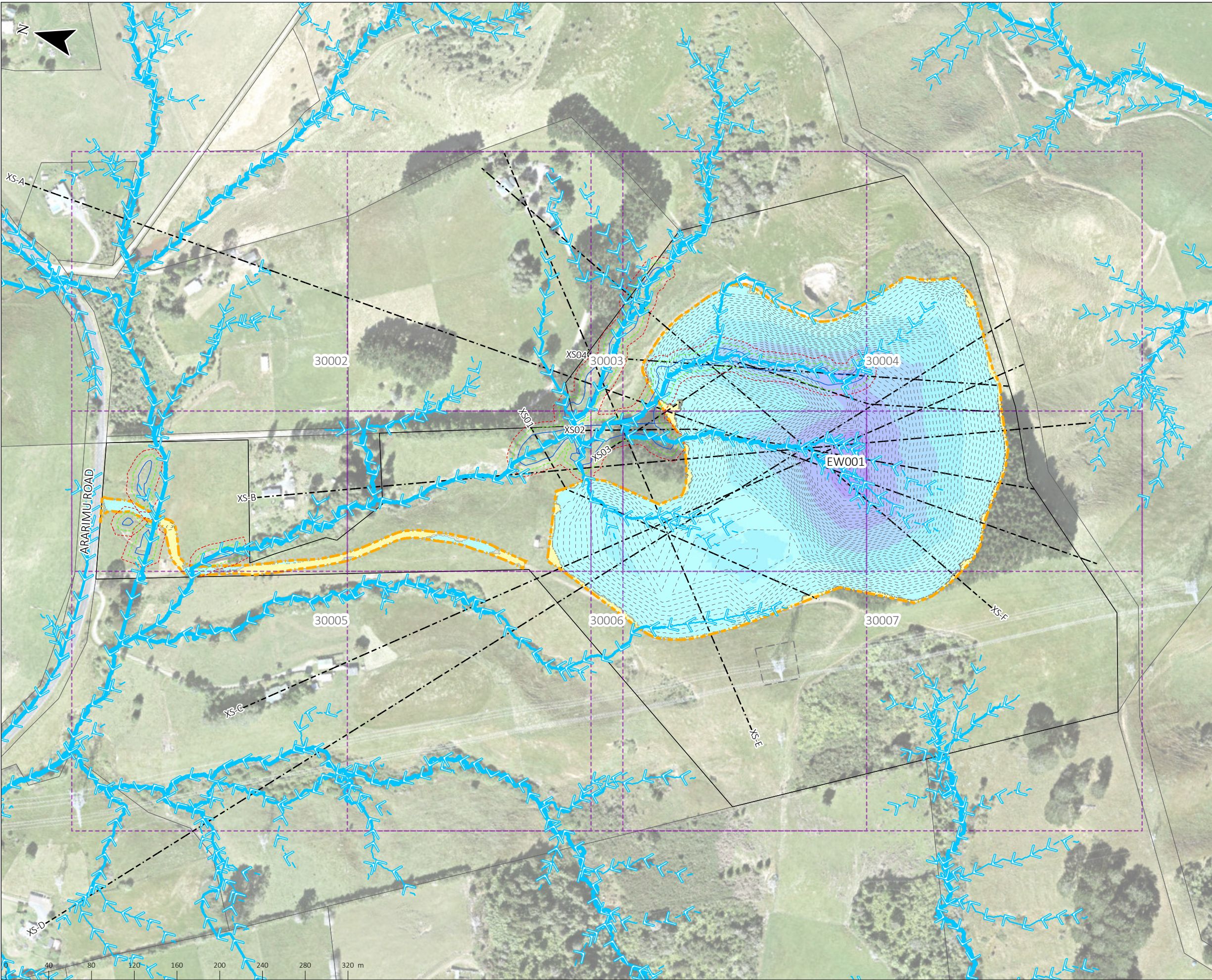
1618 ARARIMU ROAD,
PAPAKURA

CUT FILL PLAN

FOR RESOURCE CONSENT

DRAWING NO: 30000

SCALE: 1:3,500
SHEET: A3
REVISION: B
DATE: 03/09/24



LEGEND:

RETAINING WALLS W DRAINAGE (H=HEIGHT, C=CHAINAGE, ARROWS SHOW FALL DIRECTION)

--- EARTHWORKS EXTENT

--- EARTHWORKS SECTIONS

--- BUILDINGS

--- NEW PARCELS

--- EXISTING PARCELS

--- EXISTING KERBLINES

--- EXISTING IMPERVIOUS

--- EXISTING BUILDINGS

--- WETLAND

--- WETLAND 5m OFFSET

--- WETLAND 10m OFFSET

--- NATIONAL GRID YARD- 12M

NZ_Roads

--- EXISTING PARCELS

--- EXISTING IMPERVIOUS

--- EXISTING BUILDINGS

CUTFILL

CUTFILL

OLFP

CATCHMENT_AREA_GROUP

0.05-10.00m

10.00-20.00m

20.00-30.00m

30.00-40.00m

40.00-50.00m

2000m2 to 4000m2

4000m2 to 1ha

1ha to 3ha

3ha to 100ha

100ha and above

-50.00--40.00m

-40.00--30.00m

-30.00--20.00m

-20.00--10.00m

-0.05--10.00m

-0.05-0.05m

EW ID	UNITS	EW001	EW002	TOTAL
AREA	m ²	98,951	3,635	102,587
AREA OF FILL	m ²	95,734	1,245	96,979
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CUT	m ²	731	1,246	1,976
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BULK FILL	m ³	1,341,824	394	1,342,218
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CUT TO FILL	m ³	1,976	1	1,976
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BULK TOTAL VOLUME	m ³	1,342,555	1,640	1,344,194
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TOPSOIL STRIP TO WASTE	m ³	0	0	0
TOPSOIL STR. TO STOCKPILE	m ³	0	0	0
TOPSOIL TOTAL STRIP	m ³	0	0	0
TOPSOIL PL. FR. STOCKPILE	m ³	0	0	0
TOPSOIL PL. FR. IMPORT	m ³	21,911	186	22,097
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TOPSOIL IMPORT TRUCKS	Trucks	0	0	0
TOPSOIL TO WASTE TRUCKS	Trucks	0	0	0
TOPSOIL TOTAL TRUCKS	Trucks	0	0	0
EARTHWORKS TOT. VOL.	m ³	1,364,466	1,825	1,366,291
EARTHWORKS TOTAL TRUCKS	Trucks	0	256,929	256,929

- NOTES:
1. ALL WORKS TO COMPLY WITH COUNCIL AND PUBLIC NETWORK OPERATOR STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND STANDARDS TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.
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 8. ALL VOLUMES ARE SOLID MEASURE, NO BULKING FACTOR APPLIED UNLESS OTHERWISE NOTED.
 9. RETAINING WALL SETOUT - EXACT SETTING OUT POSITION OF RETAINING WALLS IN RELATION TO LOT BOUNDARIES AND BUILDINGS TO BE OBTAINED FROM ARCHITECT OR STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION COMMENCING.

IMAGERY CREDITS
LINZ, Stats NZ, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS, Auckland Council, CoLAB, Maxar

REV	DATE	DESCRIPTION	DES	REV	REL	LOGO
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A	30/08/23	FOR RESOURCE CONSENT	DF	MO	MO	

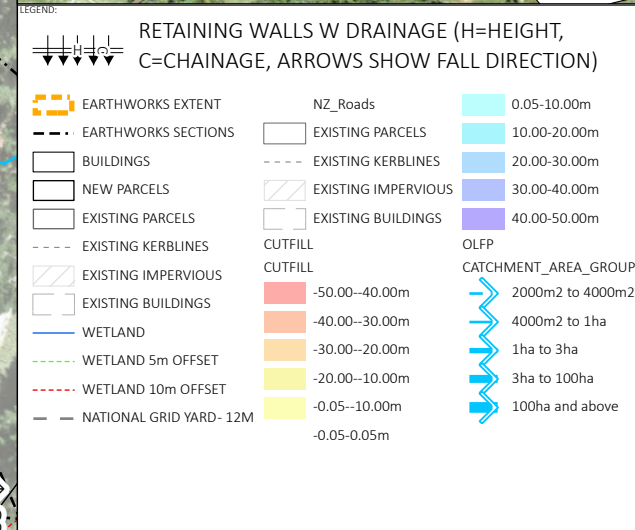
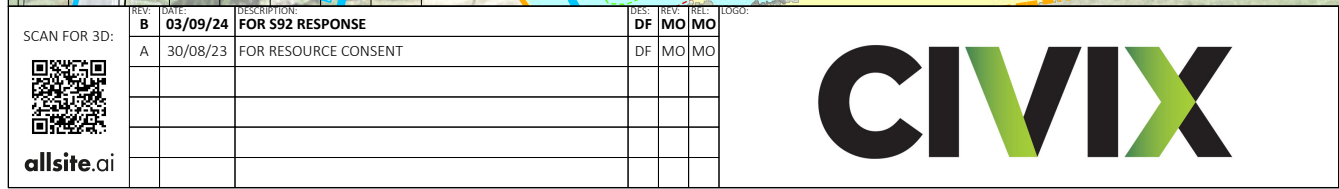


1618 ARARIMU ROAD,
PAPAKURA

CUT FILL PLAN

FOR RESOURCE CONSENT

DRAWING NO:	30001
SCALE:	1:3,500
SHEET:	A3
REVISION:	B
DATE:	03/09/24



Existing Surf. assumes topsoil depth of 0.0m
Proposed Surf. is to Building, Pavement and Grass Subgrade
Proposed topsoil depth of 0.25m

NOTES:

1. ALL WORKS TO COMPLY WITH COUNCIL AND PUBLIC NETWORK OPERATOR STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND STANDARDS TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.
2. THE CONTRACTOR IS TO PEG INFRASTRUCTURE LOCATIONS AND EARTHWORKS LEVELS PRIOR TO ORDERING MATERIALS.
3. UNDERWATER DRAINAGE IS TO BE INSTALLED AT THE DIRECTION OF THE ENGINEER. IF THE CONTRACTOR ENCOUNTERS SPRINGS OR OTHER SOURCES OF WATER, THEY ARE TO NOTIFY THE ENGINEER.
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8. ALL VOLUMES ARE SIZE MEASURE, NO BULKING FACTOR APPLIED UNLESS OTHERWISE NOTED.
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IMAGERY CREDITS

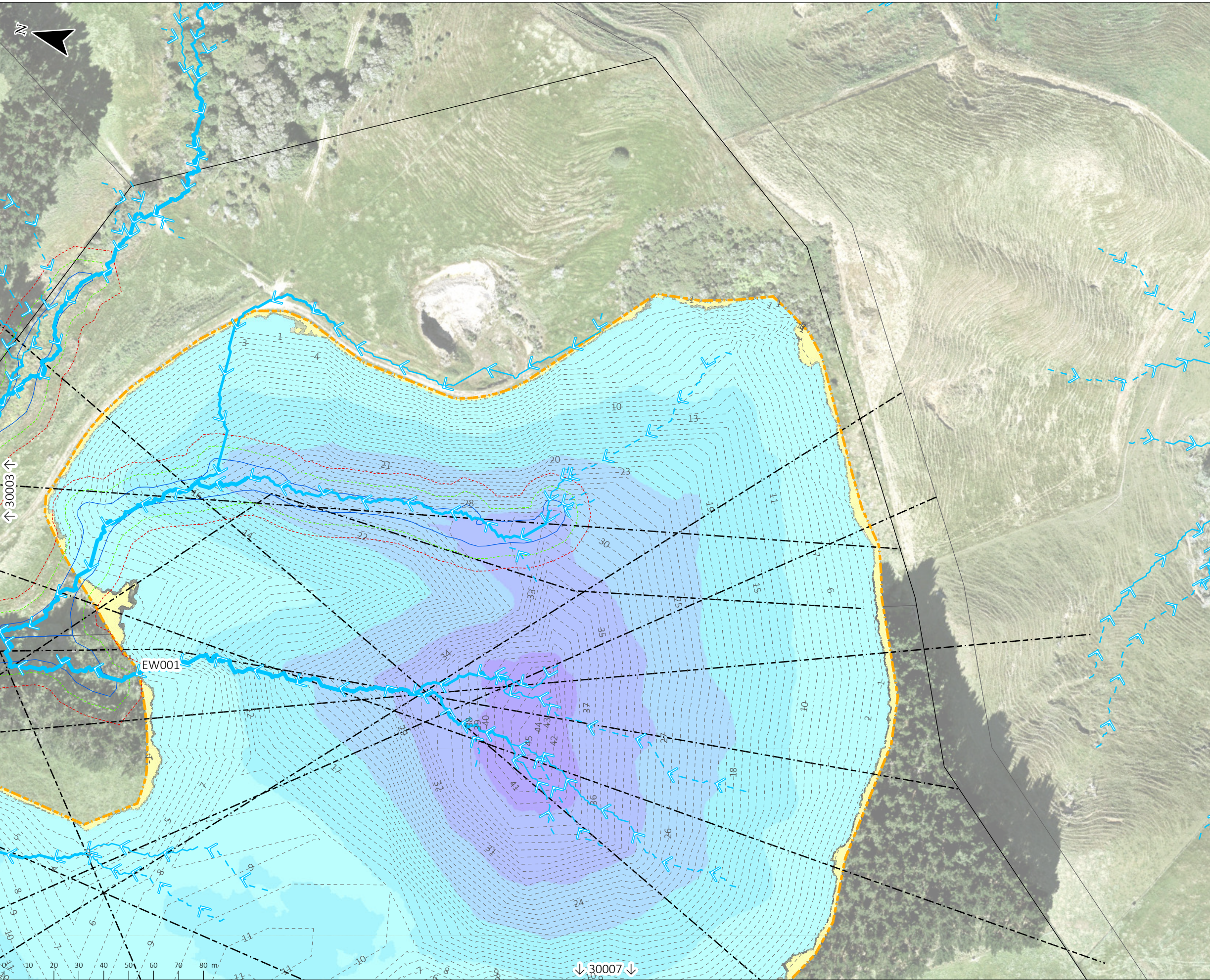
Auckland Council, CoLAB, LINZ, Eri Community Maps Contributors, LINZ, Stats NZ, Eri, TomTom, Garmin, Foursquare, METI/NASA, USGS, Auckland Council, CoLAB, Maxar

CUT FILL PLAN

FOR RESOURCE CONSENT

30002

SCALE: 1:1,500	SIZE: A3	REVISION: B	DATE: 03/09/24
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RETAINING WALLS W DRAINAGE (H=HEIGHT, C=CHAINAGE, ARROWS SHOW FALL DIRECTION)

Legend:

- EARTHWORKS EXTENT
- EARTHWORKS SECTIONS
- BUILDINGS
- NEW PARCELS
- EXISTING PARCELS
- EXISTING KERBLINES
- EXISTING IMPERVIOUS
- EXISTING BUILDINGS
- WETLAND
- WETLAND 5m OFFSET
- WETLAND 10m OFFSET
- NATIONAL GRID YARD- 12M
- NZ_Roads
- EXISTING PARCELS
- EXISTING KERBLINES
- EXISTING IMPERVIOUS
- EXISTING BUILDINGS
- CUTFILL
- CUTFILL
- OLFP
- CATCHMENT_AREA_GROUP

0.05-10.00m
10.00-20.00m
20.00-30.00m
30.00-40.00m
40.00-50.00m
-50.00--40.00m
-40.00--30.00m
-30.00--20.00m
-20.00--10.00m
-0.05--10.00m
-0.05-0.05m
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4000m2 to 1ha
1ha to 3ha
3ha to 100ha
100ha and above

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MAX CUT DEPTH	m	1.5	2.5	2.5
BULK FILL	m³	1,341,824	394	1,342,218
FILL +15% BF	m³	1,543,097	453	1,543,551
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CUT TO WASTE	m³	0	0	0
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MAX FILL HEIGHT	m	45.1	1.4	45.1
BULK IMPORT	Trucks	0	256,929	256,929
BULK TO WASTE	Trucks	0	0	0
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TOPSOIL STRIP TO WASTE	m³	0	0	0
TOPSOIL STR. TO STOCKPILE	m³	0	0	0
TOPSOIL TOTAL STRIP	m³	0	0	0
TOPSOIL PL. FR. STOCKPILE	m³	0	0	0
TOPSOIL PL. FR. IMPORT	m³	21,911	186	22,097
TOPSOIL TOTAL PLACE	m³	21,911	186	22,097
TOPSOIL TOTAL VOLUME	m³	21,911	186	22,097
TOPSOIL IMPORT TRUCKS	Trucks	0	0	0
TOPSOIL TO WASTE TRUCKS	Trucks	0	0	0
TOPSOIL TOTAL TRUCKS	Trucks	0	0	0
EARTHWORKS TOT. VOL.	m³	1,364,466	1,825	1,366,291
EARTHWORKS TOTAL TRUCKS	Trucks	0	256,929	256,929

- NOTES:
1. ALL WORKS TO COMPLY WITH COUNCIL AND PUBLIC NETWORK OPERATOR STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND STANDARDS TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.
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IMAGERY CREDITS
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SCAN FOR 3D:	REV. B	DATE 03/09/24	DESCRIPTION FOR S92 RESPONSE	DES. DF	REV. MO	REL. MO
	A	30/08/23	FOR RESOURCE CONSENT	DF	MO	MO

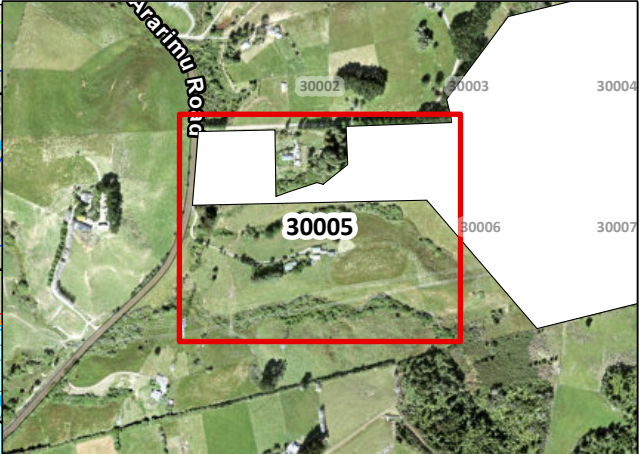


1618 ARARIMU ROAD,
PAPAKURA

CUT FILL PLAN

FOR RESOURCE CONSENT

DRAWING NO:	30004
SCALE:	1:1,500
SHEET:	A3
REVISION:	B
DATE:	03/09/24



LEGEND:

RETAINING WALLS W DRAINAGE (H=HEIGHT, C=CHAINAGE, ARROWS SHOW FALL DIRECTION)

EARTHWORKS EXTENT

EARTHWORKS SECTIONS

BUILDINGS

NEW PARCELS

EXISTING PARCELS

EXISTING KERBLINES

EXISTING IMPERVIOUS

EXISTING BUILDINGS

WETLAND

WETLAND 5m OFFSET

WETLAND 10m OFFSET

NATIONAL GRID YARD- 12M

NZ_Roads

EXISTING KERBLINES

EXISTING IMPERVIOUS

EXISTING BUILDINGS

CUTFILL

CUTFILL

CATCHMENT_AREA_GROUP

0.05-10.00m10.00-20.00m20.00-30.00m30.00-40.00m40.00-50.00m2000m2 to 4000m24000m2 to 1ha1ha to 3ha3ha to 100ha100ha and above

EW ID	UNITS	EW001	EW002	TOTAL
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TOPSOIL TOTAL TRUCKS	Trucks	0	0	0
EARTHWORKS TOT. VOL.	m³	1,364,466	1,825	1,366,291
EARTHWORKS TOTAL TRUCKS	Trucks	0	256,929	256,929


Existing Surf. assumes topsoil depth of 0.0m
Proposed Surf. is to Building, Pavement and Grass Subgrade
Proposed topsoil depth of 0.225m

NOTES:

1. ALL WORKS TO COMPLY WITH COUNCIL AND PUBLIC NETWORK OPERATOR STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND STANDARDS TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.
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IMAGERY CREDITS
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SCAN FOR 3D:



allsite.ci

REV.	DATE	DESCRIPTION	DES.	REV.	REL.	LOGO
B	03/09/24	FOR S92 RESPONSE	DF	MO	MO	
A	30/08/23	FOR RESOURCE CONSENT	DF	MO	MO	

CIVIX

1618 ARARIMU ROAD,
PAPAKURA

CUT FILL PLAN

1:1,500

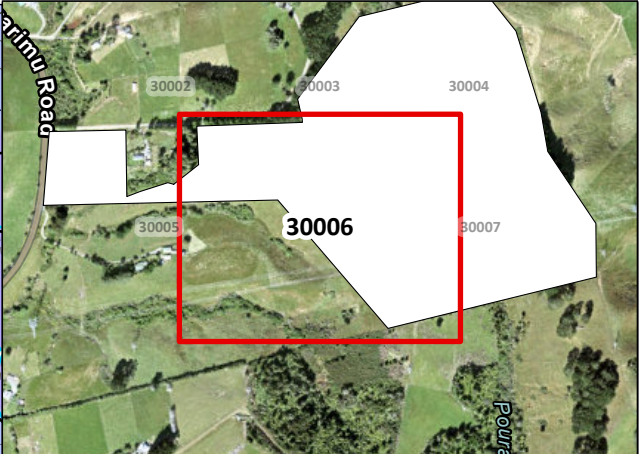
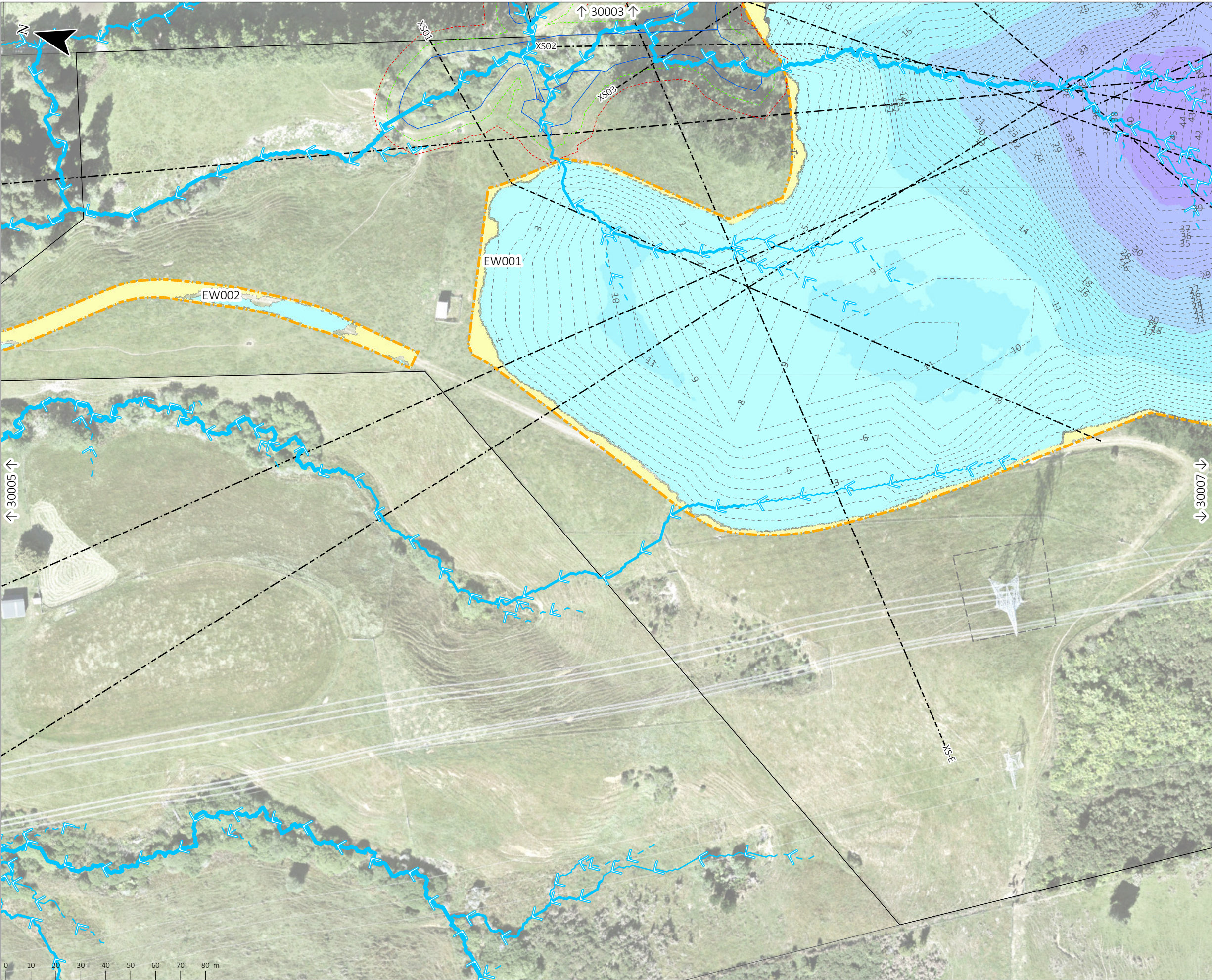
A3

B

03/09/24

FOR RESOURCE CONSENT

30005



LEGEND:

RETAINING WALLS W DRAINAGE (H=HEIGHT, C=CHAINAGE, ARROWS SHOW FALL DIRECTION)

--- EARTHWORKS EXTENT

--- EARTHWORKS SECTIONS

--- BUILDINGS

--- NEW PARCELS

--- EXISTING PARCELS

--- EXISTING KERBLINES

--- EXISTING IMPERVIOUS

--- EXISTING BUILDINGS

--- WETLAND

--- WETLAND 5m OFFSET

--- WETLAND 10m OFFSET

--- NATIONAL GRID YARD- 12M

NZ_Roads

EXISTING PARCELS

EXISTING IMPERVIOUS

EXISTING BUILDINGS

CUTFILL

CUTFILL

OLFP

CATCHMENT_AREA_GROUP

0.05-10.00m

10.00-20.00m

20.00-30.00m

30.00-40.00m

40.00-50.00m

-50.00--40.00m

-40.00--30.00m

-30.00--20.00m

-20.00--10.00m

-0.05--10.00m

-0.05-0.05m

2000m2 to 4000m2

4000m2 to 1ha

1ha to 3ha

3ha to 100ha

100ha and above

EW ID	UNITS	EW001	EW002	TOTAL
AREA	m²	98,951	3,635	102,587
AREA OF FILL	m²	95,734	1,245	96,979
AREA OF CUT	m²	3,215	2,389	5,604
CUT	m²	731	1,246	1,976
BULK TOTAL CUT	m²	731	1,246	1,976
MAX CUT DEPTH	m	1.5	2.5	2.5
BULK FILL	m³	1,341,824	394	1,342,218
FILL +15% BF	m³	1,543,097	453	1,543,551
BULK TOTAL FILL	m³	1,341,824	394	1,342,218
FILL IMPORT	m³	0	1,541,574	1,541,574
CUT TO FILL	m³	1,976	1	1,976
CUT TO WASTE	m³	0	0	0
BULK TOTAL VOLUME	m³	1,342,555	1,640	1,344,194
MAX FILL HEIGHT	m	45.1	1.4	45.1
BULK IMPORT	Trucks	0	256,929	256,929
BULK TO WASTE	Trucks	0	0	0
BULK TOTAL	Trucks	0	256,929	256,929
TOPSOIL STRIP TO WASTE	m³	0	0	0
TOPSOIL STR. TO STOCKPILE	m³	0	0	0
TOPSOIL TOTAL STRIP	m³	0	0	0
TOPSOIL PL. FR. STOCKPILE	m³	0	0	0
TOPSOIL PL. FR. IMPORT	m³	21,911	186	22,097
TOPSOIL TOTAL PLACE	m³	21,911	186	22,097
TOPSOIL TOTAL VOLUME	m³	21,911	186	22,097
TOPSOIL IMPORT TRUCKS	Trucks	0	0	0
TOPSOIL TO WASTE TRUCKS	Trucks	0	0	0
TOPSOIL TOTAL TRUCKS	Trucks	0	0	0
EARTHWORKS TOT. VOL.	m³	1,364,466	1,825	1,366,291
EARTHWORKS TOTAL TRUCKS	Trucks	0	256,929	256,929

Existing Surf. assumes topsoil depth of 0.0m
Proposed Surf. is to Building, Pavement and Grass Subgrade
Proposed topsoil depth of 0.225m

NOTES:

1. ALL WORKS TO COMPLY WITH COUNCIL AND PUBLIC NETWORK OPERATOR STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND STANDARDS TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.

2. THE CONTRACTOR IS TO PEG INFRASTRUCTURE LOCATIONS AND EARTHWORKS LEVELS PRIOR TO ORDERING MATERIALS.

3. UNDERFILL DRAINAGE IS TO BE INSTALLED AT THE DIRECTION OF THE ENGINEER. IF THE CONTRACTOR ENCOUNTERS SPRINGS OR OTHER SOURCES OF WATER, THEY ARE TO NOTIFY THE ENGINEER.

4. EARTHWORKS ARE NOT TO BE EXTENDED INTO ADJOINING SITES UNLESS THE ENGINEER HAS ISSUED SPECIFIC INSTRUCTIONS.

5. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND PROTECTING EXISTING SERVICES AND DRAINAGE ON SITE.

6. THE CONTRACTOR SHALL CLARIFY THE AREAS AND EXTENT OF CLEARING WITH THE ENGINEER BEFORE COMMENCEMENT AND CONFIRM THAT ALL NECESSARY CONSENTS ARE IN PLACE.

7. EARTHWORKS TOLERANCES ARE TO BE +25mm.

8. ALL VOLUMES ARE SOLID MEASURE, NO BULKING FACTOR APPLIED UNLESS OTHERWISE NOTED.

9. RETAINING WALL SETOUT - EXACT SETTING OUT POSITION OF RETAINING WALLS IN RELATION TO LOT BOUNDARIES AND BUILDINGS TO BE OBTAINED FROM ARCHITECT OR STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION COMMENCING.

IMAGERY CREDITS
Auckland Council, CoLAB, LINZ, Esri Community Maps Contributors, LINZ, Stats NZ, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS, Auckland Council, CoLAB, Maxar

SCAN FOR 3D:

allsite.ci

REV.	DATE	DESCRIPTION	DES.	REV.	REL.	LOGO
B	03/09/24	FOR S92 RESPONSE	DF	MO	MO	
A	30/08/23	FOR RESOURCE CONSENT	DF	MO	MO	

CIVIX

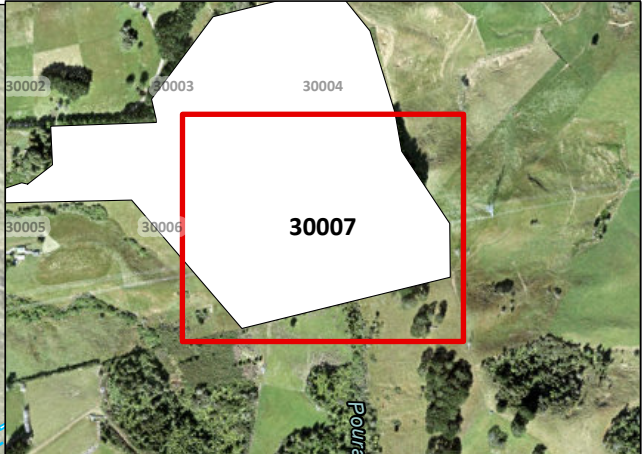
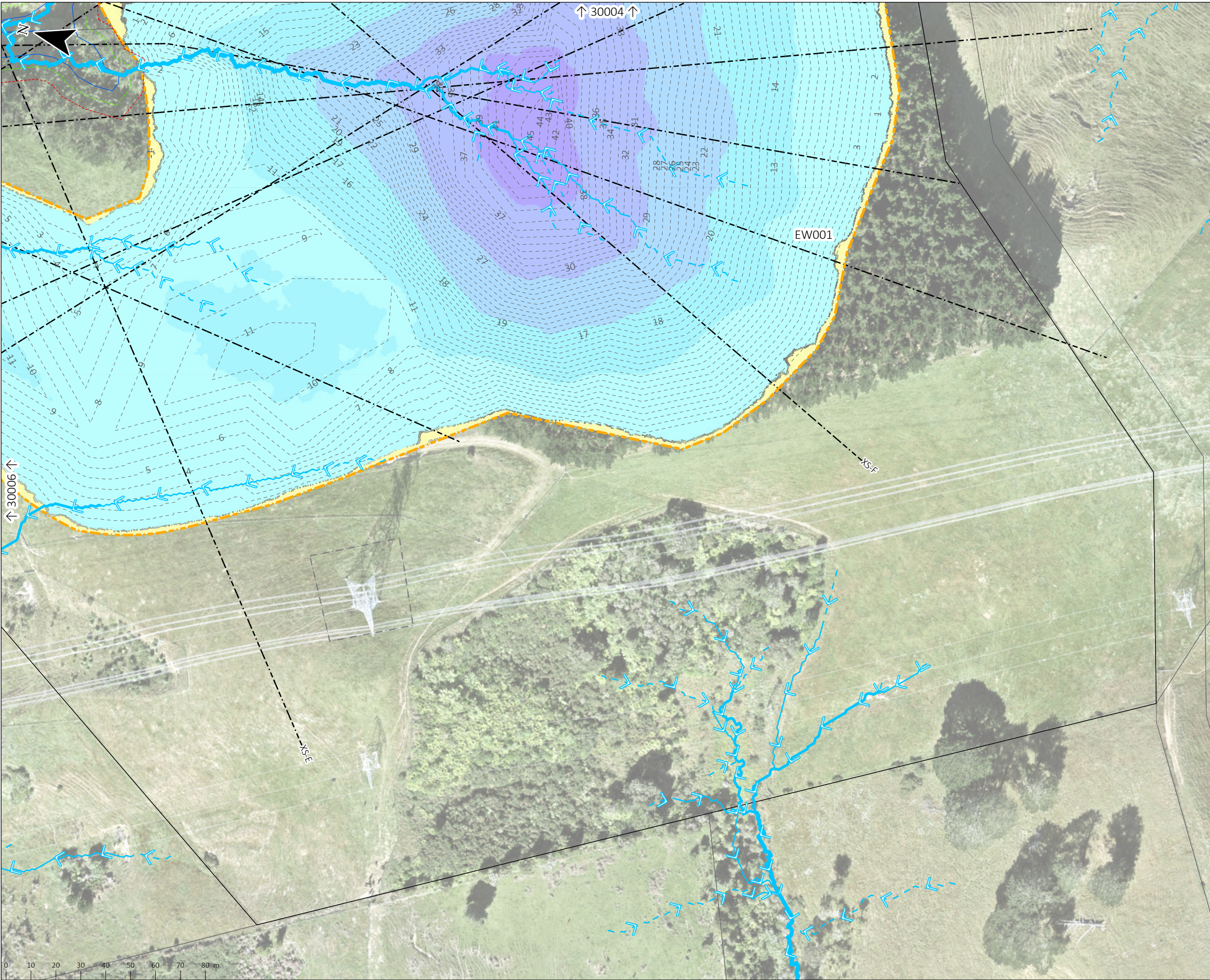
1618 ARARIMU ROAD,
PAPAKURA

CUT FILL PLAN

FOR RESOURCE CONSENT

30006

SCALE: 1:1,500
SIZE: A3
REVISION: B
DATE: 03/09/24



RETAINING WALLS W DRAINAGE (H=HEIGHT, C=CHAINAGE, ARROWS SHOW FALL DIRECTION)

LEGEND:

- EARTHWORKS EXTENT
- EARTHWORKS SECTIONS
- BUILDINGS
- NEW PARCELS
- EXISTING PARCELS
- EXISTING KERBLINES
- EXISTING IMPERVIOUS
- EXISTING BUILDINGS
- WETLAND
- WETLAND 5m OFFSET
- WETLAND 10m OFFSET
- NATIONAL GRID YARD- 12M
- NZ_Roads
- EXISTING PARCELS
- EXISTING KERBLINES
- EXISTING IMPERVIOUS
- EXISTING BUILDINGS
- CUTFILL
- CUTFILL
- OLFP
- CATCHMENT_AREA_GROUP

0.05-10.00m
10.00-20.00m
20.00-30.00m
30.00-40.00m
40.00-50.00m

-50.00--40.00m
-40.00--30.00m
-30.00--20.00m
-20.00--10.00m
-0.05--10.00m
-0.05-0.05m

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4000m2 to 1ha
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SCAN FOR 3D:	REV. B	DATE 03/09/24	DESCRIPTION FOR S92 RESPONSE	DES. DF	REV. MO	PREL. MO	LOGO:
	A	30/08/23	FOR RESOURCE CONSENT	DF	MO	MO	



1618 ARARIMU ROAD,
PAPAKURA

CUT FILL PLAN

FOR RESOURCE CONSENT

30007

SCALE: 1:1,500	SHEET: A3	REVISION: B	DATE: 03/09/24
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