

Appendix H Application Plans

Remediation of Former Tokanui Hospital Site

Assessment of Environmental Effects

Toitū Te Whenua Land Information New Zealand

SLR Project No.: 880.V11547.00001

20 November 2024

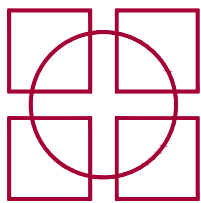
Set	Plans	Ref	Version	Author
H1	Horizontal Infrastructure Demolition Series	33205	Issue Set 6 8/11/24	Fraser Thomas Limited
H2	Remedial Action Plan - Contaminated Soil Plans	33097/R01-59	Rev A 13/11/2024	Fraser Thomas Limited
H3	Coal tar investigation report - Contaminated Roothing Plans	33205/CT01-26	Rev A 25/09/2024	Fraser Thomas Limited
H4	Culvert 2 Removal Series	33205/EMB	Issue Set 1 08/11/2024	Fraser Thomas Limited
H5	Planting Plan (Culvert 2)	-	11/11/2024	SLR Consulting NZ Ltd
H6	Culvert 3 Works Plans	33097/LF310-390	Issue Set 3 21/11/2024	Fraser Thomas Limited
H7	PL Series - Pipe Lining Works Plans	33205/PL001-109	Issue Set 2 07/11/24	Fraser Thomas Limited
H8	Erosion and Sediment Control Plans	33205/3000-3203	Issue Set 1 05/11/24	Fraser Thomas Limited
H9	Plan showing the relocation of entrance gates		00 08/08/2024	Toitū Te Whenua LINZ

TOKANUI HOSPITAL HORIZONTAL INFRASTRUCTURE

TOITŪ TE WHENUA - LINZ DEMOLITION SERIES

33205

FOR RESOURCE CONSENT



Fraser
Thomas

ISSUE SET 6

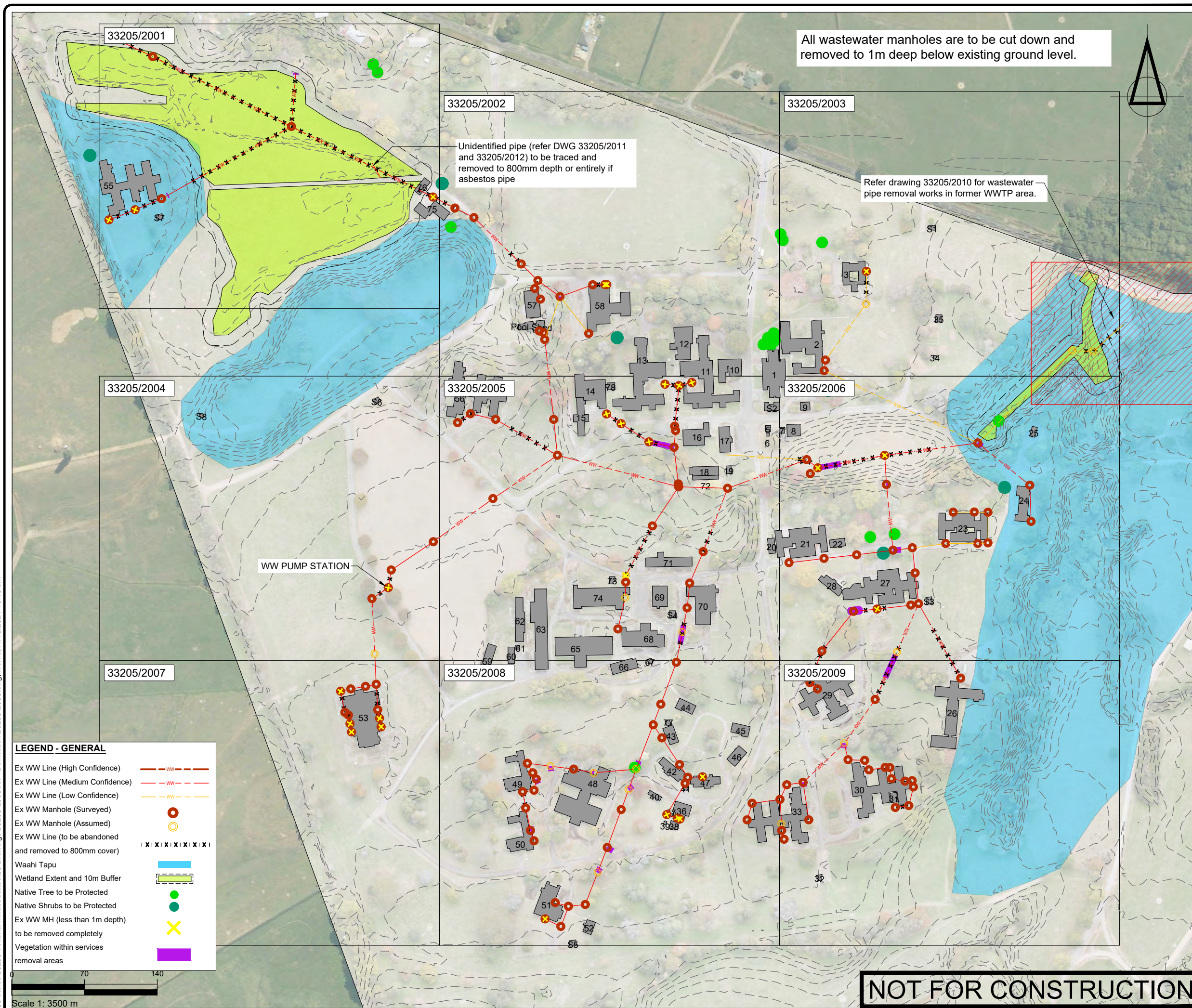
08/11/24

	LIST OF DRAWINGS	13/12/2023	04/03/2024	10/04/2024	10/05/2024	18/09/2024	07/11/2024
	ISSUE SET	1	2	3	4	5	6
DRAWING	DRAWING TITLE						
33205/0001	LEGEND	-	A	A	A	A	A
33205/2000	WASTEWATER DEMOLITION PLAN LAYOUT	-	A	A	B	C	D
33205/2001	WASTEWATER DEMOLITION PLAN (SHEET 1 OF 9)	-	A	A	B	C	D
33205/2002	WASTEWATER DEMOLITION PLAN (SHEET 2 OF 9)	-	A	A	B	C	D
33205/2003	WASTEWATER DEMOLITION PLAN (SHEET 3 OF 9)	-	A	A	B	C	D
33205/2004	WASTEWATER DEMOLITION PLAN (SHEET 4 OF 9)	-	A	A	B	C	D
33205/2005	WASTEWATER DEMOLITION PLAN (SHEET 5 OF 9)	-	A	A	B	C	D
33205/2006	WASTEWATER DEMOLITION PLAN (SHEET 6 OF 9)	-	A	A	B	C	D
33205/2007	WASTEWATER DEMOLITION PLAN (SHEET 7 OF 9)	-	A	A	B	C	D
33205/2008	WASTEWATER DEMOLITION PLAN (SHEET 8 OF 9)	-	A	A	B	C	D
33205/2009	WASTEWATER DEMOLITION PLAN (SHEET 9 OF 9)	-	A	A	B	C	D
33205/2010	WASTEWATER TREATMENT PLANT DEMOLITION WORKS					A	B
33205/2011	WASTEWATER DEMOLITION PLAN IN NW WETLAND - PIPE SUPPORT DETAILS SHEET 1 OF 2					A	B
33205/2012	WASTEWATER DEMOLITION PLAN IN NW WETLAND - PIPE SUPPORT DETAILS SHEET 2 OF 2					A	A
33205/2100	STORMWATER DEMOLITION PLAN LAYOUT	-	A	A	B	C	D
33205/2101	STORMWATER DEMOLITION PLAN (SHEET 1 OF 9)	-	A	A	B	C	D
33205/2102	STORMWATER DEMOLITION PLAN (SHEET 2 OF 9)	-	A	A	B	C	D
33205/2103	STORMWATER DEMOLITION PLAN (SHEET 3 OF 9)	-	A	A	B	C	D
33205/2104	STORMWATER DEMOLITION PLAN (SHEET 4 OF 9)	-	A	A	B	C	D
33205/2105	STORMWATER DEMOLITION PLAN (SHEET 5 OF 9)	-	A	A	B	C	D
33205/2106	STORMWATER DEMOLITION PLAN (SHEET 6 OF 9)	-	A	A	B	C	D
33205/2107	STORMWATER DEMOLITION PLAN (SHEET 7 OF 9)	-	A	A	B	C	D
33205/2108	STORMWATER DEMOLITION PLAN (SHEET 8 OF 9)	-	A	A	B	C	D
33205/2109	STORMWATER DEMOLITION PLAN (SHEET 9 OF 9)	-	A	A	B	C	D
33205/2200	WATER DEMOLITION PLAN LAYOUT	-	A	A	B	C	D
33205/2201	WATER DEMOLITION PLAN (SHEET 1 OF 9)	-	A	A	B	C	D
33205/2202	WATER DEMOLITION PLAN (SHEET 2 OF 9)	-	A	A	B	C	D

33205/2203	WATER DEMOLITION PLAN (SHEET 3 OF 9)	-	A	A	B	C	D	
33205/2204	WATER DEMOLITION PLAN (SHEET 4 OF 9)	-	A	A	B	C	D	
33205/2205	WATER DEMOLITION PLAN (SHEET 5 OF 9)	-	A	A	B	C	D	
33205/2206	WATER DEMOLITION PLAN (SHEET 6 OF 9)	-	A	A	B	C	D	
33205/2207	WATER DEMOLITION PLAN (SHEET 7 OF 9)	-	A	A	B	C	D	
33205/2208	WATER DEMOLITION PLAN (SHEET 8 OF 9)	-	A	A	B	C	D	
33205/2209	WATER DEMOLITION PLAN (SHEET 9 OF 9)	-	A	A	B	C	D	
33205/2300	COMMS DEMOLITION PLAN LAYOUT	-	A	A	B	C	D	
33205/2400	POWER DEMOLITION PLAN LAYOUT	-	A	A	B	C	D	
33205/2401	POWER DEMOLITION PLAN (SHEET 1 OF 9)	-	A	A	B	C	D	
33205/2402	POWER DEMOLITION PLAN (SHEET 2 OF 9)	-	A	A	B	C	D	
33205/2403	POWER DEMOLITION PLAN (SHEET 3 OF 9)	-	A	A	B	C	D	
33205/2404	POWER DEMOLITION PLAN (SHEET 4 OF 9)	-	A	A	B	C	D	
33205/2405	POWER DEMOLITION PLAN (SHEET 5 OF 9)	-	A	A	B	C	D	
33205/2406	POWER DEMOLITION PLAN (SHEET 6 OF 9)	-	A	A	B	C	D	
33205/2407	POWER DEMOLITION PLAN (SHEET 7 OF 9)	-	A	A	B	C	D	
33205/2408	POWER DEMOLITION PLAN (SHEET 8 OF 9)	-	A	A	B	C	D	
33205/2409	POWER DEMOLITION PLAN (SHEET 9 OF 9)	-	A	A	B	C	D	
33205/2500	CONCRETE STEAM DUCT DEMOLITION PLAN LAYOUT	-	A	A	B	C	D	
33205/2700	ROADING DEMOLITION PLAN LAYOUT	-	A	B	C	D	C	
33205/2701	ROADING/PAVING EXTENT AND OPTIONS PLAN - WITHDRAWN	-	-	-	-	SS	SS	
33205/2702	EXISTING ROADING CONDITION ASSESSMENT	-	-	-	-	A	A	
33205/2703	ROADING/PAVING EXTENT INCLUDING POSSIBLE/ACTUAL COAL TAR AREAS - WITHDRAWN	-	-	A	B	SS	SS	
33205/2710	PROPOSED REMOVAL OF REDUNDANT ROAD EMBANKMENT AND CULVERT - WITHDRAWN	-	A	A	B	SS	SS	
33205/2800	COMBINED SERVICES LAYOUT				-	A	B	

NOTE:

1. For coal tar removal works, refer separate 33205/CT drawing series.

[illegible]

1. All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.
2. Check that any contaminated soil removal works in areas where services demolition is also required have been completed and certified, prior to starting services demolition works.
3. Any trapped water in services to be removed shall be removed by vacuum truck and disposed of off-site to an appropriate liquid waste receiving facility. Alternative disposal to stormwater will only be considered if water quality testing confirms this is acceptable.
4. All wastewater pipes to be removed to 800mm depth (to top of pipe), with any residual pipes left in the ground capped or plugged.
5. If during this process, new pipes <800mm depth (to top of pipe) are found that are not shown on the demolition drawings, advise LINZ project manager/site representative who will issue instruction for any additional removal works.
6. Survey the locations of any pipes/structures left in the ground and include on asbuilt plans.
7. Backfill excavated cavities and trenches with compacted cleanfill, followed by topsoiling and grassing, except at road crossings that are to remain post-works, which should be backfilled with approved, compacted hardfill.

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WASTEWATER DEMOLITION
PLAN LAYOUT



Fraser Thomas

ENGINEERS • RESOURCE MANAGERS • SURVEYORS

AUCKLAND	09 278 7078
HAWKE'S BAY	06 211 2766
CHRISTCHURCH	03 358 5936
BLLENHEIM	03 428 3292
NELSON	03 222 1132

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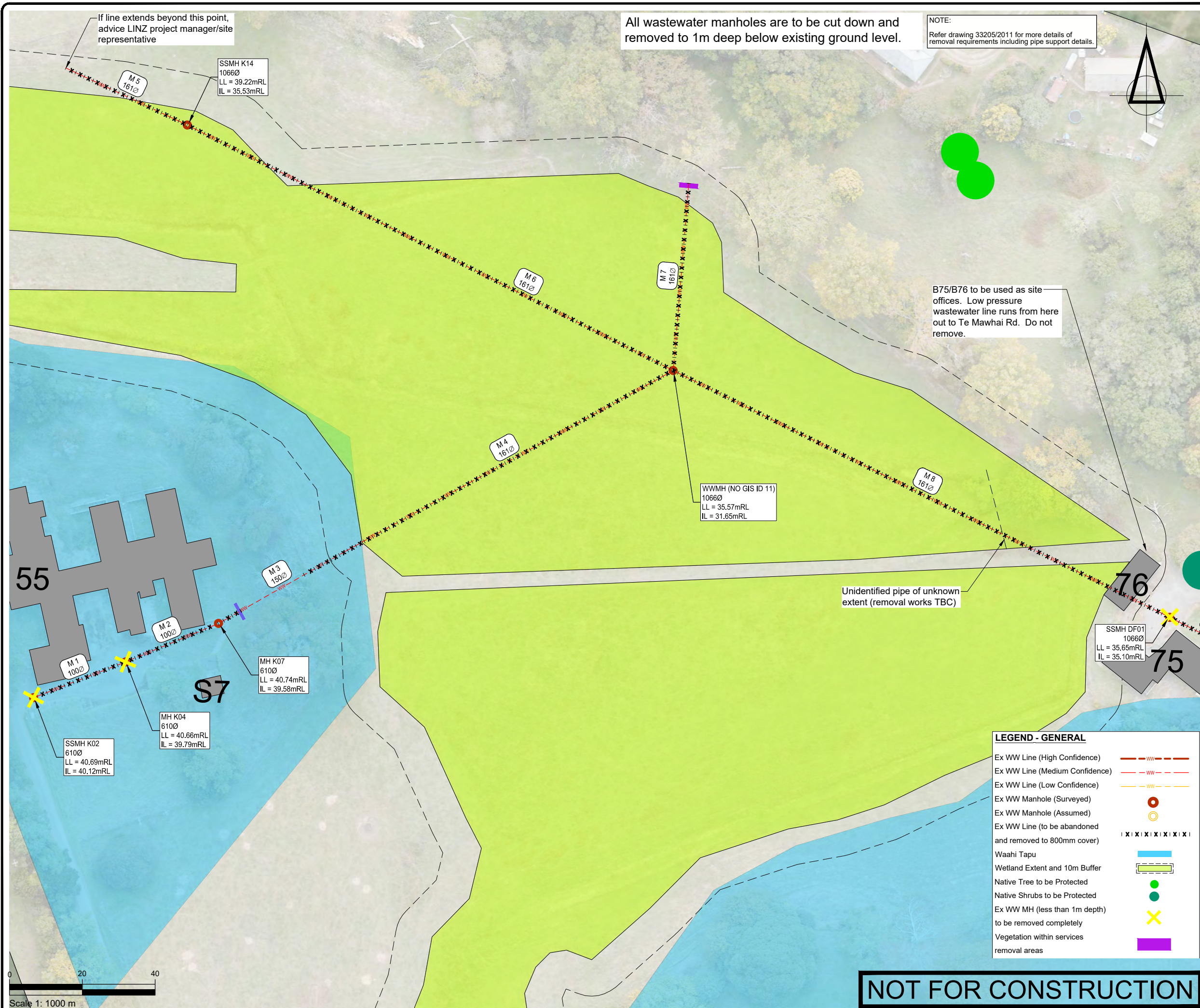
STATUS

FOR RESOURCE CONSENT

Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.

SCALE	1:3500	(A)
DRAWING No	33205/2000	REVISION
		D

P:333 series33205 Tokanui Infrastructure03 Drawings33205-2000Set - Demolition33205-2001.dwg, swang, 9/23/2024 12:14 pm



All wastewater manholes are to be cut down and removed to 1m deep below existing ground level.

NOTE:
Refer drawing 33205/2011 for more details of removal requirements including pipe support details.

SURVEYED	BSCL	24.04.23	APPROVED	DATE	
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES		SF 31.05.23	DATE	
-	ISSUE FOR INFORMATION			SF	12/12/23
A	ADDITIONAL INFO ADDED			SF	04/03/24
B	CHANGE TO SIGNIFICANT AREAS			SF	10/05/24
C	WETLAND / CULTURAL AREA UPDATES			SF	17/09/24
D	ADDED AFFECTED VEGETATION			SF	06/11/24

- NOTES
- All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.
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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WASTEWATER DEMOLITION
PLAN (SHEET 1 OF 9)

Fraser Thomas

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AUCKLAND 09 278 7078
HAWKE'S BAY 06 211 2766
CHRISTCHURCH 03 358 5936
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STATUS

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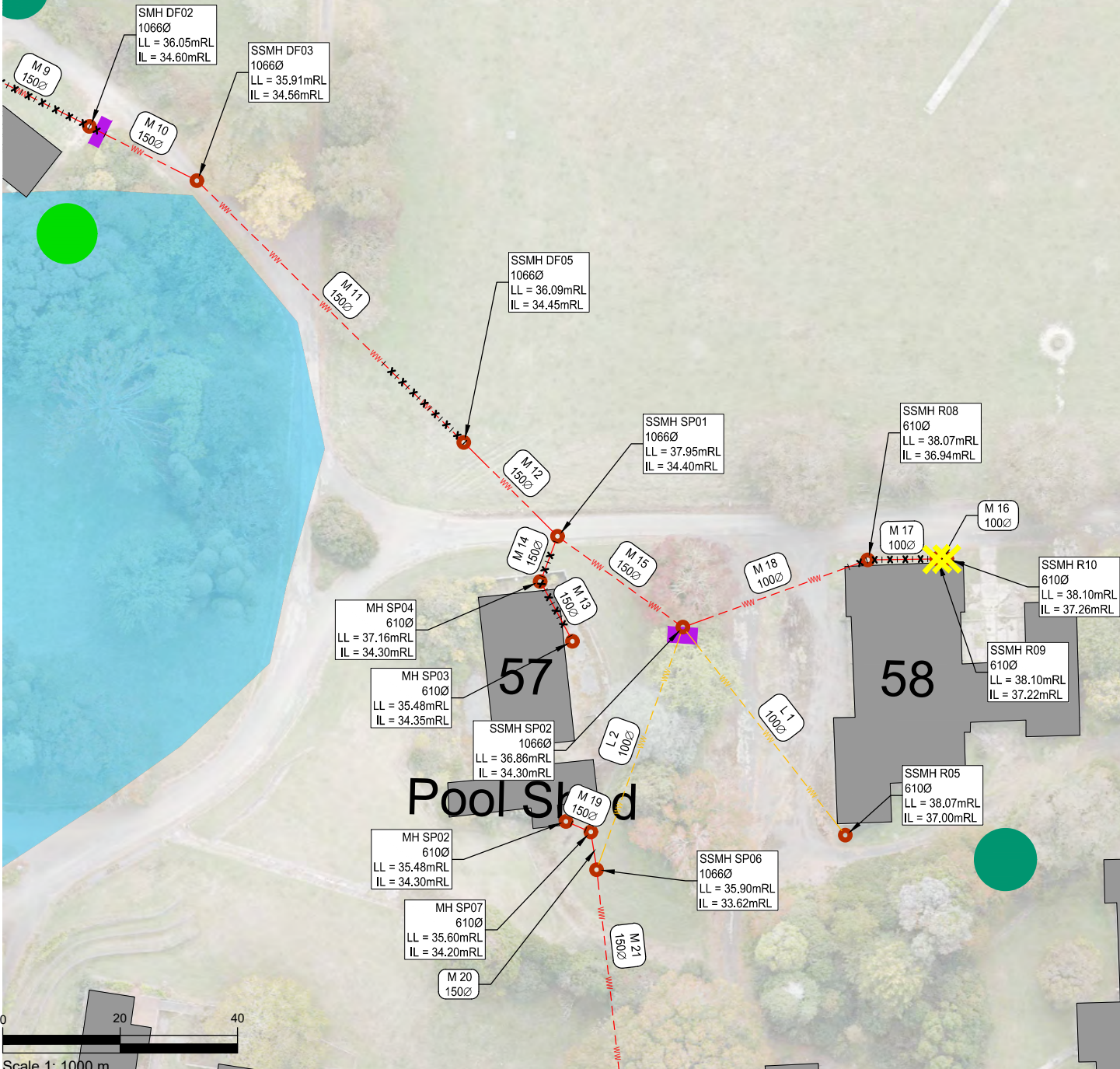
SCALE 1:1000 (A3)

DRAWING No 33205/2001 REVISION D

LEGEND - GENERAL

- Ex WW Line (High Confidence) ---
- Ex WW Line (Medium Confidence) ---
- Ex WW Line (Low Confidence) ---
- Ex WW Manhole (Surveyed) ●
- Ex WW Manhole (Assumed) ○
- Ex WW Line (to be abandoned and removed to 800mm cover) | x | x | x | x | x | x |
- Waahi Tapu ---
- Wetland Extent and 10m Buffer ---
- Native Tree to be Protected ●
- Native Shrubs to be Protected ●
- Ex WW MH (less than 1m depth) to be removed completely X
- Vegetation within services removal areas ---

All wastewater manholes are to be cut down and removed to 1m deep below existing ground level.



SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES			CHECKED	DATE
-	ISSUE FOR INFORMATION			SF	12/12/23
A	ADDITIONAL INFO ADDED			SF	04/03/24
B	CHANGE TO SIGNIFICANT AREAS			SF	10/05/24
C	WETLAND / CULTURAL AREA UPDATES			SF	17/09/24
D	ADDED AFFECTED VEGETATION			SF	06/11/24

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TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WASTEWATER DEMOLITION
PLAN (SHEET 2 OF 9)

 **Fraser Thomas**

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SCALE 1:1000 (A3)

DRAWING No 33205/2002 REVISION D

LEGEND - GENERAL

Ex WW Line (High Confidence)

Ex WW Line (Medium Confidence)

Ex WW Line (Low Confidence)

Ex WW Manhole (Surveyed)

Ex WW Manhole (Assumed)

Ex WW Line (to be abandoned and removed to 800mm cover)

Waahi Tapu

Wetland Extent and 10m Buffer

Native Tree to be Protected

Native Shrubs to be Protected

Ex WW MH (less than 1m depth) to be removed completely

Vegetation within services removal areas

WW

WW

WW

X

X

All wastewater manholes are to be cut down and removed to 1m deep below existing ground level.

SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES			CHECKED	DATE
-	ISSUE FOR INFORMATION			SF	12/12/23
A	ADDITIONAL INFO ADDED			SF	04/03/24
B	CHANGE TO SIGNIFICANT AREAS			SF	10/05/24
C	WETLAND / CULTURAL AREA UPDATES			SF	17/09/24
D	ADDED AFFECTED VEGETATION			SF	06/11/24

NOTES

1.

2.

3.

4.

5.

6.

7.

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Survey the locations of any pipes/structures left in the ground and include on asbuilt plans.

Backfill excavated cavities and trenches with compacted cleanfill, followed by topsoiling and grassing, except at road crossings that are to remain post-works, which should be backfilled with approved, compacted hardfill.

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WASTEWATER DEMOLITION
PLAN (SHEET 3 OF 9)

Fraser

Thomas

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BLENHEIM.....03 428 3292

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SCALE

1:1000

(A3)

DRAWING No

33205/2003

REVISION

D

P:333 series33205 Tokanui Infrastructure03 Drawings33205-2000Set - Demolition33205-2003.dwg, f:\ohra, 11/10/2021 10:18 am

LEGEND - GENERAL

- Ex WW Line (High Confidence)

Ex WW Line (Medium Confidence)

Ex WW Line (Low Confidence)

Ex WW Manhole (Surveyed)

Ex WW Manhole (Assumed)

Ex WW Line (to be abandoned and removed to 800mm cover)

Waahi Tapu

Wetland Extent and 10m Buffer

Native Tree to be Protected

Native Shrubs to be Protected

Ex WW MH (less than 1m depth) to be removed completely

Vegetation within services removal areas
- WW —

— WW —

— WW —

●

○

| x | x | x | x | x | x |

●

●

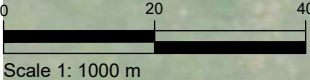
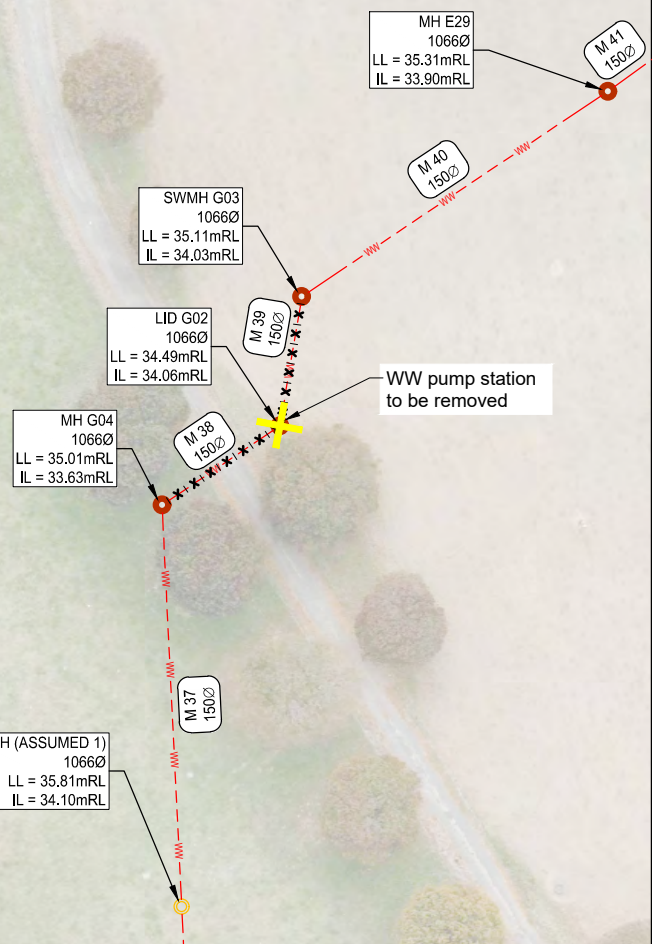
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All wastewater manholes are to be cut down and removed to 1m deep below existing ground level.



S8

S6



NOT FOR CONSTRUCTION

SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES			CHECKED	DATE
-	ISSUE FOR INFORMATION			SF	12/12/23
A	ADDITIONAL INFO ADDED			SF	04/03/24
B	CHANGE TO SIGNIFICANT AREAS			SF	10/05/24
C	WETLAND / CULTURAL AREA UPDATES			SF	17/09/24
D	ADDED AFFECTED VEGETATION			SF	06/11/24

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TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WASTEWATER DEMOLITION
PLAN (SHEET 4 OF 9)

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ENGINEERS • RESOURCE MANAGERS • SURVEYORS

AUCKLAND 09 278 7078

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CHRISTCHURCH 03 358 5936

BLenheim 03 428 3292

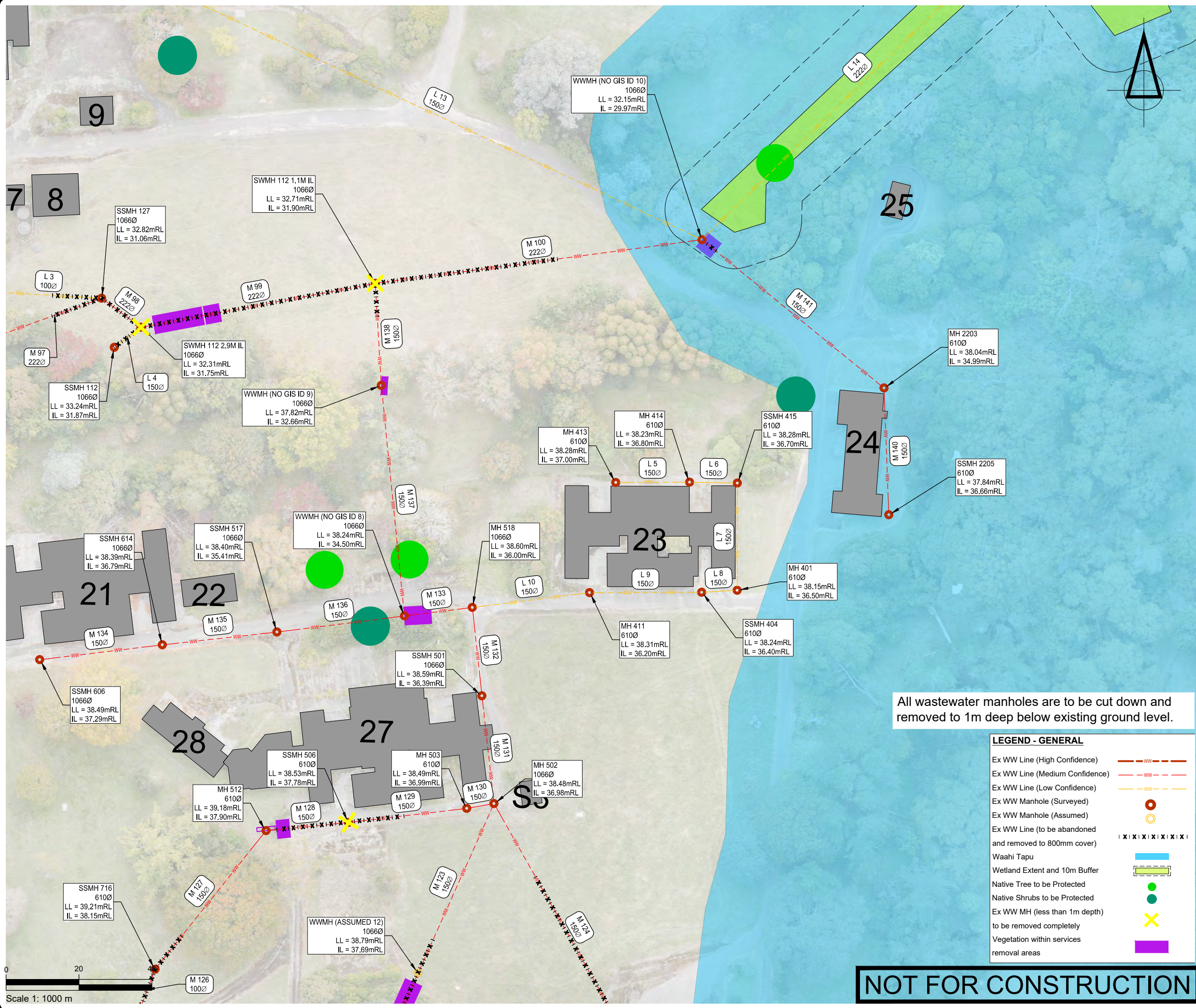
NELSON 03 222 1132

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STATUS	
FOR RESOURCE CONSENT	
Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.	
SCALE	1:1000 (A3)
DRAWING No	33205/2004
REVISION	D

P:\33 series\33205 Tokanui Infrastructure\03 Drawings\33205-2006Set - Demolition\33205-2006.dwg, swang, 11/10/2021 10:18 am



All wastewater manholes are to be cut down and removed to 1m deep below existing ground level.

LEGEND - GENERAL	
Ex WW Line (High Confidence)	---
Ex WW Line (Medium Confidence)	---
Ex WW Line (Low Confidence)	---
Ex WW Manhole (Surveyed)	○
Ex WW Manhole (Assumed)	○
Ex WW Line (to be abandoned and removed to 800mm cover)	---
Waahi Tapu	---
Wetland Extent and 10m Buffer	---
Native Tree to be Protected	●
Native Shrubs to be Protected	●
Ex WW MH (less than 1m depth) to be removed completely	✕
Vegetation within services removal areas	---

NOT FOR CONSTRUCTION

SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
			SF		31.05.23
REVISION	CHANGES			CHECKED	DATE
-	ISSUE FOR INFORMATION			SF	12/12/23
A	ADDITIONAL INFO ADDED			SF	04/03/24
B	CHANGE TO SIGNIFICANT AREAS			SF	10/05/24
C	WETLAND / CULTURAL AREA UPDATES			SF	17/09/24
D	ADDED AFFECTED VEGETATION			SF	06/11/24

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CLIENT
TOITŪ TE WHENUA - LINZ

PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
WASTEWATER DEMOLITION
PLAN (SHEET 6 OF 9)



Fraser Thomas

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AUCKLAND 09 278 7078
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STATUS FOR RESOURCE CONSENT	
Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.	
SCALE 1:1000	(A3)
DRAWING No 33205/2006	REVISION D

All wastewater manholes are to be cut down and removed to 1m deep below existing ground level.



SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES			CHECKED	DATE
-	ISSUE FOR INFORMATION			SF	12/12/23
A	ADDITIONAL INFO ADDED			SF	04/03/24
B	CHANGE TO SIGNIFICANT AREAS			SF	10/05/24
C	WETLAND / CULTURAL AREA UPDATES			SF	17/09/24
D	ADDED AFFECTED VEGETATION			SF	06/11/24

- NOTES
- All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.
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 - Any trapped water in services to be removed shall be removed by vacuum truck and disposed of off-site to an appropriate liquid waste receiving facility. Alternative disposal to stormwater will only be considered if water quality testing confirms this is acceptable.
 - All wastewater pipes to be removed to 800mm depth (to top of pipe), with any residual pipes left in the ground capped or plugged.
 - If during this process, new pipes <800mm depth (to top of pipe) are found that are not shown on the demolition drawings, advise LINZ project manager/site representative, who will issue instruction for any additional removal works.
 - Survey the locations of any pipes/structures left in the ground and include on asbuilt plans.
 - Backfill excavated cavities and trenches with compacted cleanfill, followed by topsoiling and grassing, except at road crossings that are to remain post-works, which should be backfilled with approved, compacted hardfill.

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WASTEWATER DEMOLITION
PLAN (SHEET 7 OF 9)



Fraser Thomas

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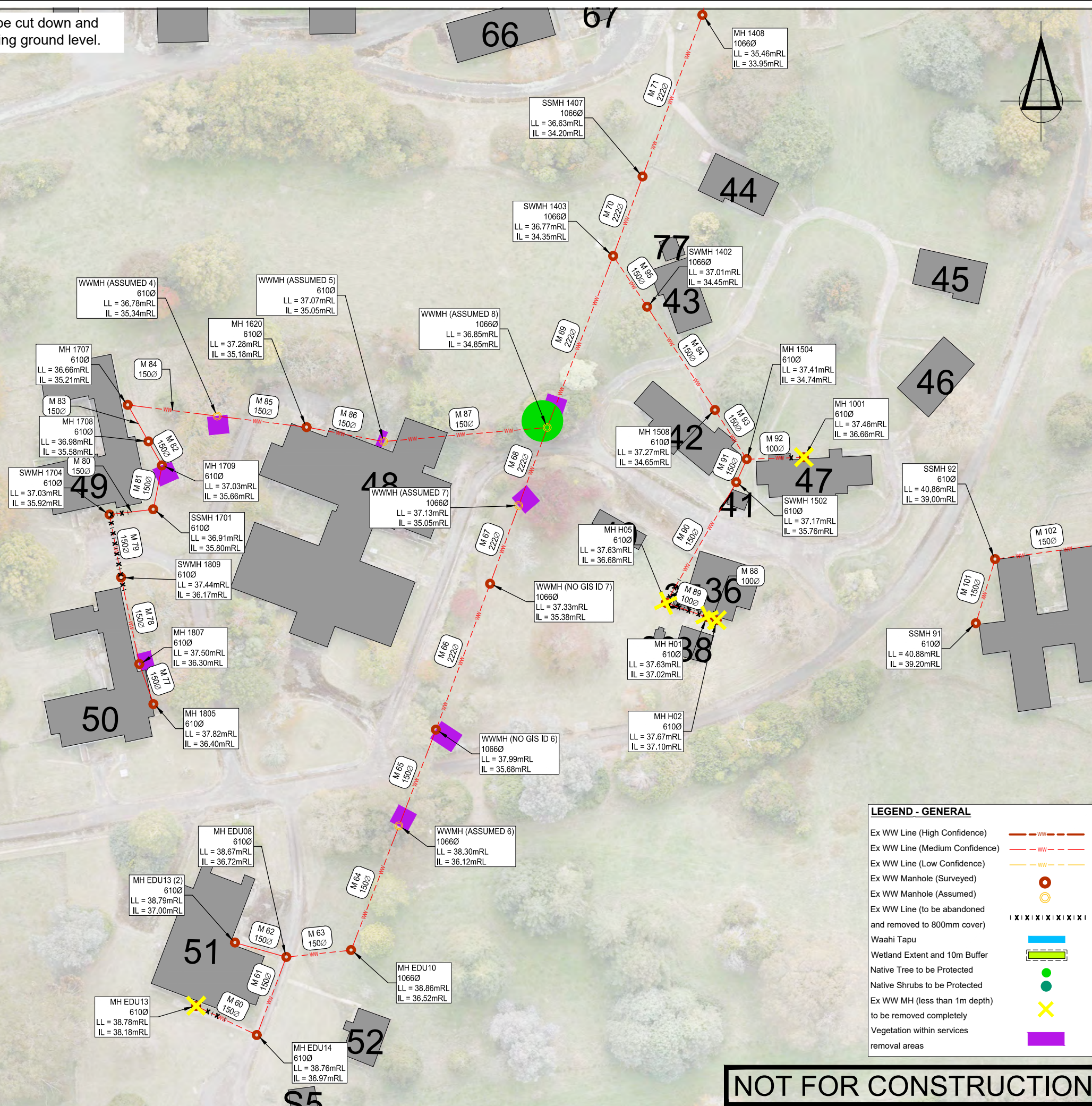
STATUS

FOR RESOURCE CONSENT

Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.

SCALE	1:1000	(A3)
DRAWING No	33205/2007	REVISION
		D

All wastewater manholes are to be cut down and removed to 1m deep below existing ground level.

[illegible]

- NOTES**
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TOKANUI HOSPITAL HORIZONTAL INFRASTRUCTURE

WASTEWATER DEMOLITION
PLAN (SHEET 8 OF 9)



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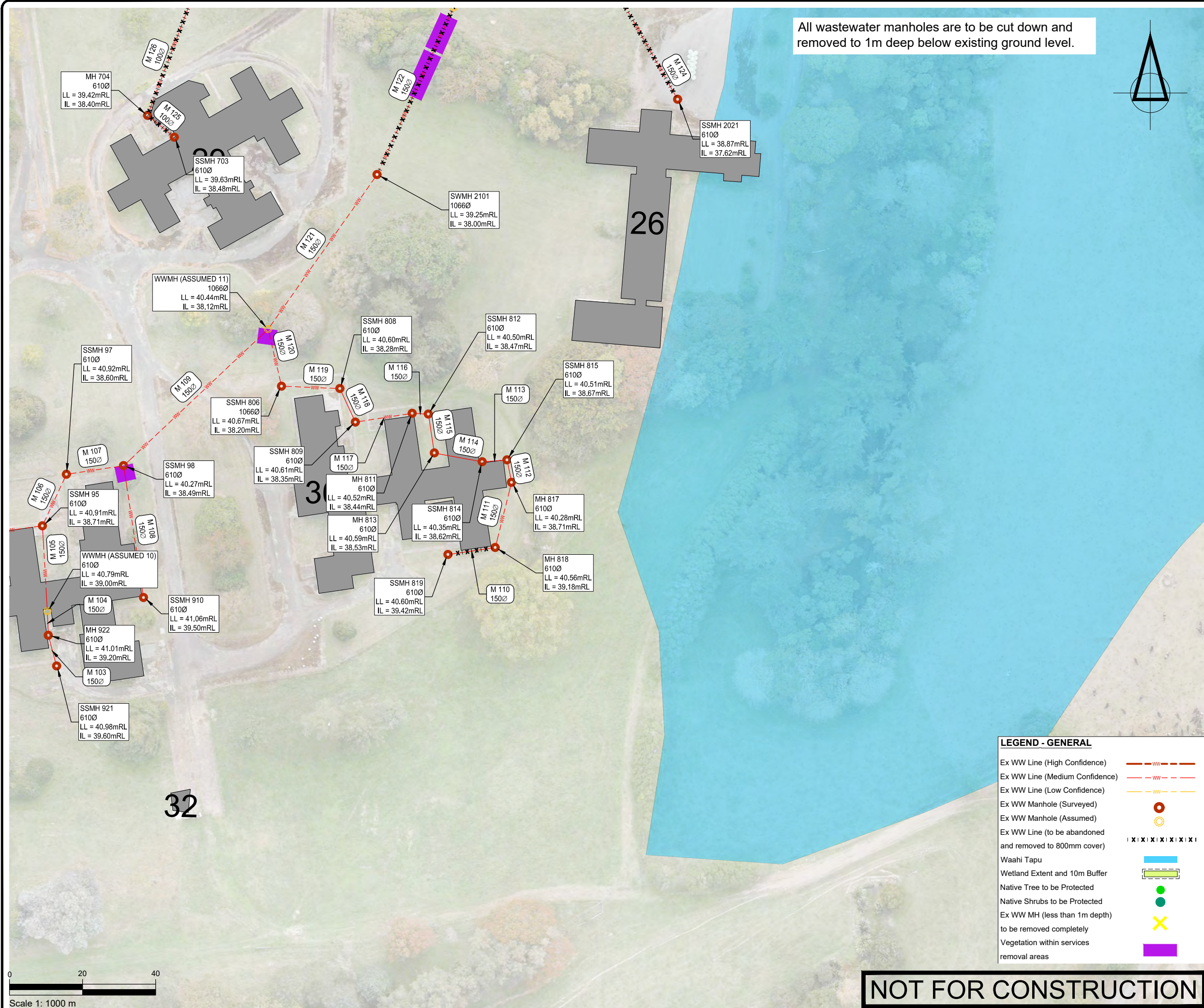
DRAWING No	REVISION
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33205/2008 D

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NOT FOR CONSTRUCTION

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SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES		CHECKED	DATE	
-	ISSUE FOR INFORMATION		SF	12/12/23	
A	ADDITIONAL INFO ADDED		SF	04/03/24	
B	CHANGE TO SIGNIFICANT AREAS		SF	10/05/24	
C	WETLAND / CULTURAL AREA UPDATES		SF	17/09/24	
D	ADDED AFFECTED VEGETATION		SF	06/11/24	

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WASTEWATER DEMOLITION
PLAN (SHEET 9 OF 9)

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SCALE 1:1000 (A3)

DRAWING No 33205/2009 REVISION D

1. WWPS + Concrete pad to be protected during works.
2. Remove flow meter and associated concrete pad. (TBC)
3. Remove redundant UV treatment system. LINZ to confirm if salvage for reuse or obsolete.
4. Remove outfall pipe. (TBC)
5. Remove shallow retaining wall and steps. Better ground down to tie in with adjacent ground.
6. Remove edging around former humes tank.
7. Remove tricking filter and stone media.
8. Remove grit chamber.
9. Remove inlet pipe strapped to footbridge.
10. Remove footbridge.
11. Remove any ancillaries (cabling, etc).
12. Relocate fence to reduce compound size. LINZ to confirm extent.
13. Remove wastewater pipes down to 800mm depth out to the boundary with the road reserve and remove the stormwater pipe and associated three WWMHs shown. Cap the line at the road reserve boundary and at each end of the wastewater pipe greater than 800mm depth between the two southern manholes

[illegible]

NOTES

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7. Backfill excavated cavities and trenches with compacted cleanfill, followed by topsoiling and grassing, except at road crossings that are to remain post-works, which should be backfilled with approved, compacted hardfill.

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WASTEWATER TREATMENT
PLANT DEMOLITION WORKS

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SCALE 1:500 (A3)

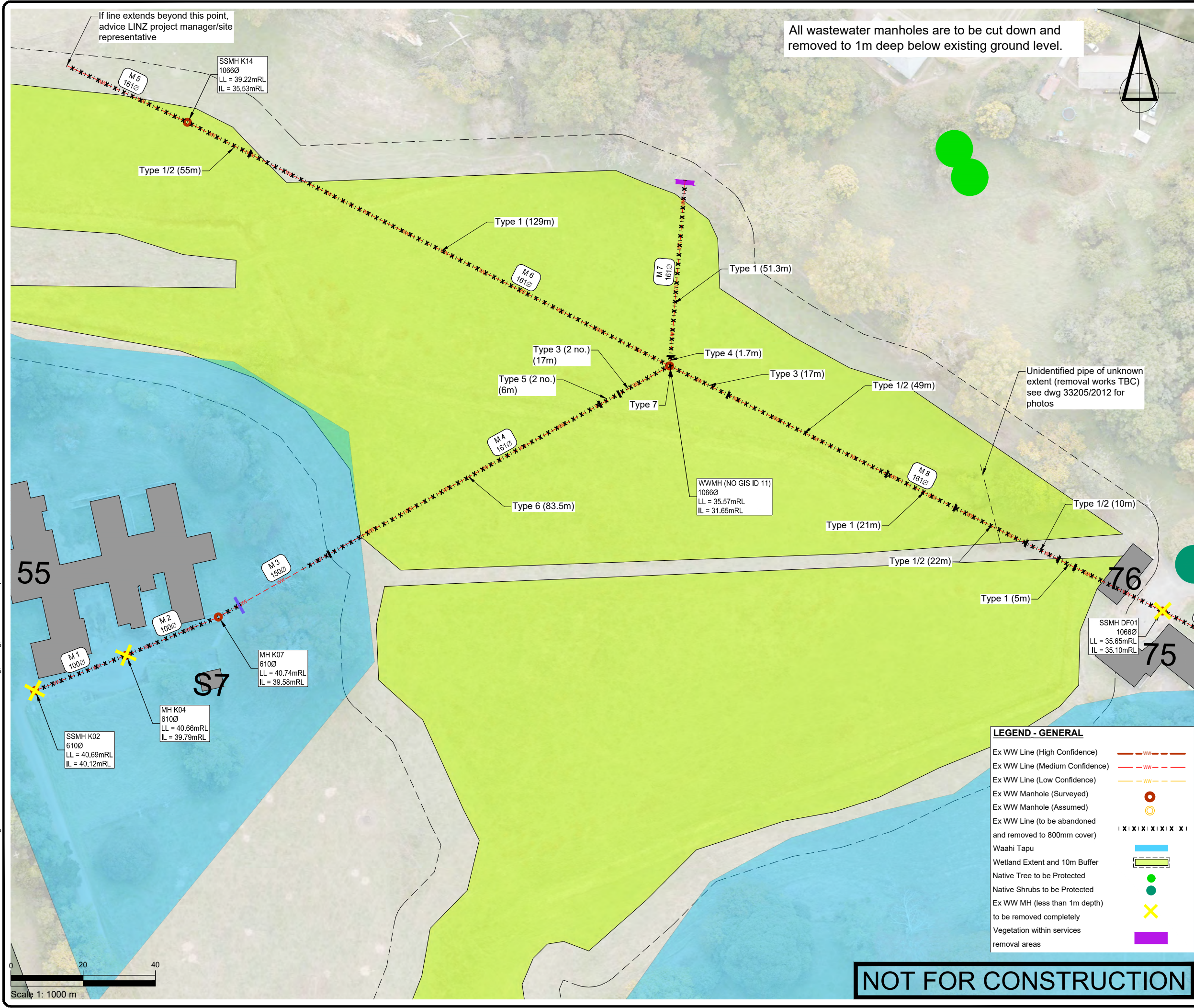
DRAWING No	REVISION
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33205/2010 B

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NOT FOR CONSTRUCTION

P:333 series33205 Tokanui Infrastructure03 Drawings33205-2000Set - Demolition33205-2011.dwg, swang, 9/23/2024 12:07 pm



SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
DRAWN	FK	18.09.24			
CHECKED	SF	18.09.24			
REVISION	CHANGES		CHECKED	DATE	
A	ISSUE FOR RESOURCE CONSENT		SF	18/09/24	
B	ADDED AFFECTED TREES		SF	06/11/24	

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WASTEWATER DEMOLITION
PLAN IN NW WETLAND - PIPE
SUPPORT DETAILS SHEET 1 OF
2

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SCALE 1:500 (A3)

DRAWING No 33205/2011 REVISION B



Pipeline situated on concrete foundation (Type 1)



Westernmost pipeline below ground level (Type 2)



Eastern pipeline within concrete chamber (Type 3)



Southern pipeline with concrete casing (Type 3 (2))



Southern pipeline with concrete pile (Type 5 (2))



Southern pipeline with footings (Type 6)



Pipeline situated on concrete foundation (Type 6)



Concrete chamber connecting all four pipelines (Type 7)



Unidentified pipeline underlying eastern pipeline
(removal requirements to be confirmed)



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REVISION		CHANGES	CHECKED	DATE	
A	ISSUE FOR RESOURCE CONSENT		SF	18/09/24	

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WASTEWATER DEMOLITION
PLAN IN NW WETLAND - PIPE
SUPPORT DETAILS SHEET 2 OF
2



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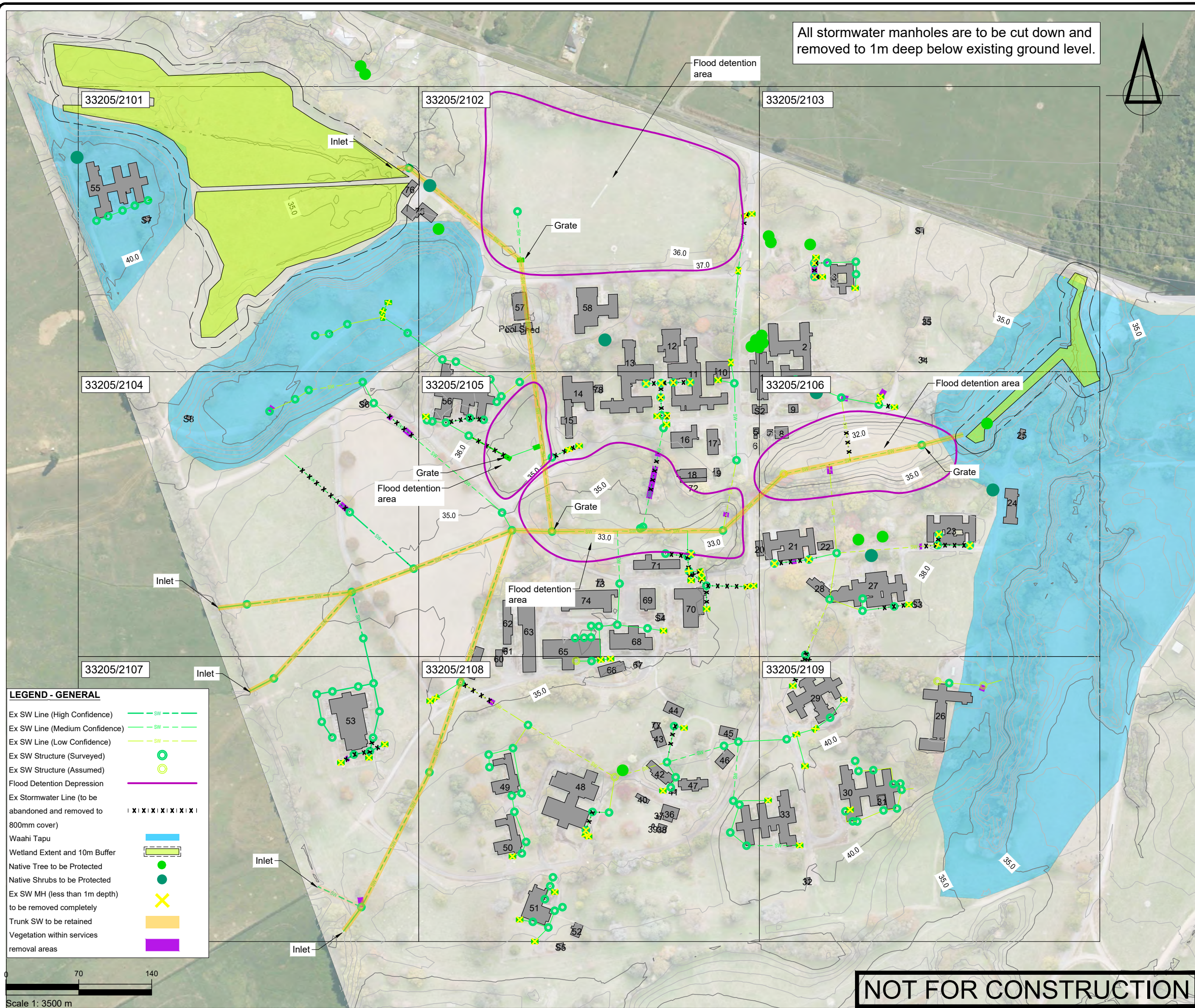
Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.

SCALE NTS (A3)

DRAWING No 33205/2012 REVISION A

NOT FOR CONSTRUCTION

P:\33 series\33205 Tokanui Infrastructure\03 Drawings\33205-2100.dwg, f:\ohra, 11/11/2024 10:06 am



All stormwater manholes are to be cut down and removed to 1m deep below existing ground level.

LEGEND - GENERAL

- Ex SW Line (High Confidence) ——— SW ———
- Ex SW Line (Medium Confidence) ——— SW ———
- Ex SW Line (Low Confidence) ——— SW ———
- Ex SW Structure (Surveyed) ○
- Ex SW Structure (Assumed) ○
- Flood Detention Depression
- Ex Stormwater Line (to be abandoned and removed to 800mm cover) ——— X ———
- Waahi Tapu
- Wetland Extent and 10m Buffer
- Native Tree to be Protected ●
- Native Shrubs to be Protected ●
- Ex SW MH (less than 1m depth) to be removed completely X
- Trunk SW to be retained
- Vegetation within services removal areas

Scale 1: 3500 m

SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
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REVISION	CHANGES		CHECKED	DATE	
-	ISSUE FOR INFORMATION		SF	12/12/23	
A	ADDITIONAL INFO ADDED		SF	04/03/24	
B	CHANGE TO SIGNIFICANT AREAS		SF	10/05/24	
C	WETLAND / CULTURAL AREA UPDATES		SF	17/09/24	
D	ADDED AFFECTED VEGETATION		SF	06/11/24	

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PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
STORMWATER DEMOLITION
PLAN LAYOUT



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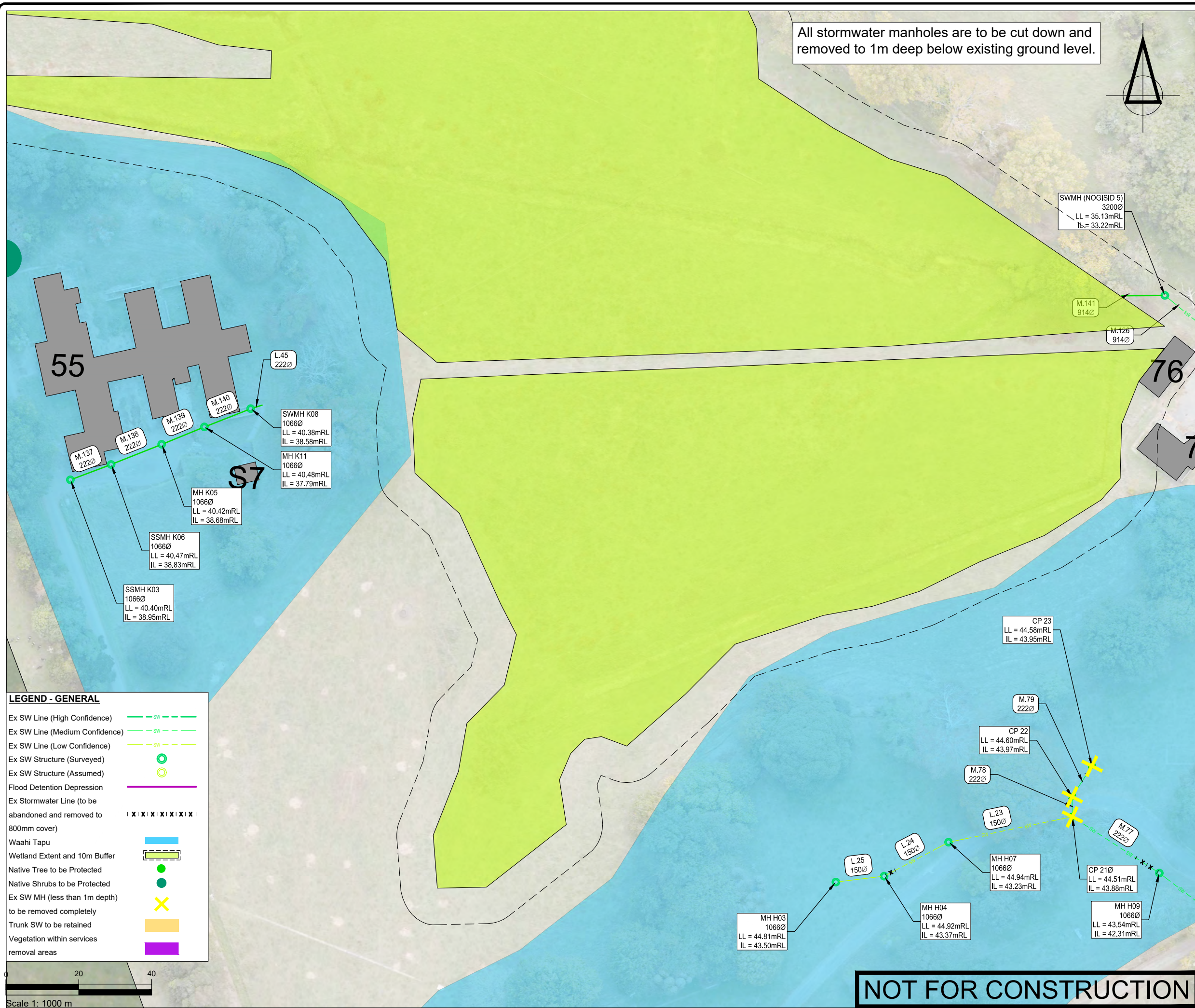
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SCALE	1:3500	(A3)	
DRAWING No	33205/2100	REVISION	D

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SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
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B	CHANGE TO SIGNIFICANT AREAS		SF	10/05/24	
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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER DEMOLITION
PLAN (SHEET 1 OF 9)

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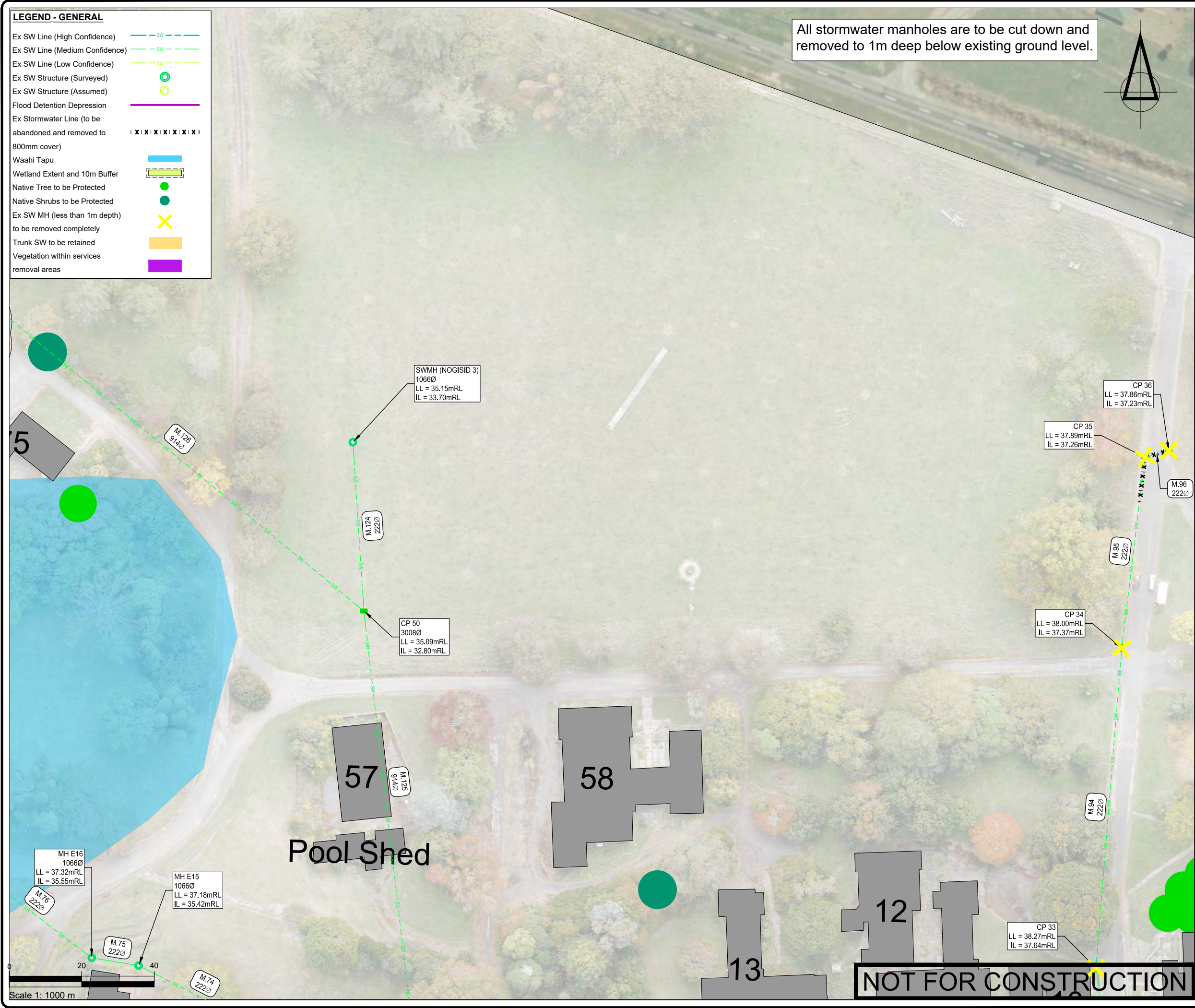
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SCALE 1:1000 (A3)

DRAWING No 33205/2101 REVISION D

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DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES			CHECKED	DATE
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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER DEMOLITION
PLAN (SHEET 2 OF 9)

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SCALE: 1:1000 (A3)

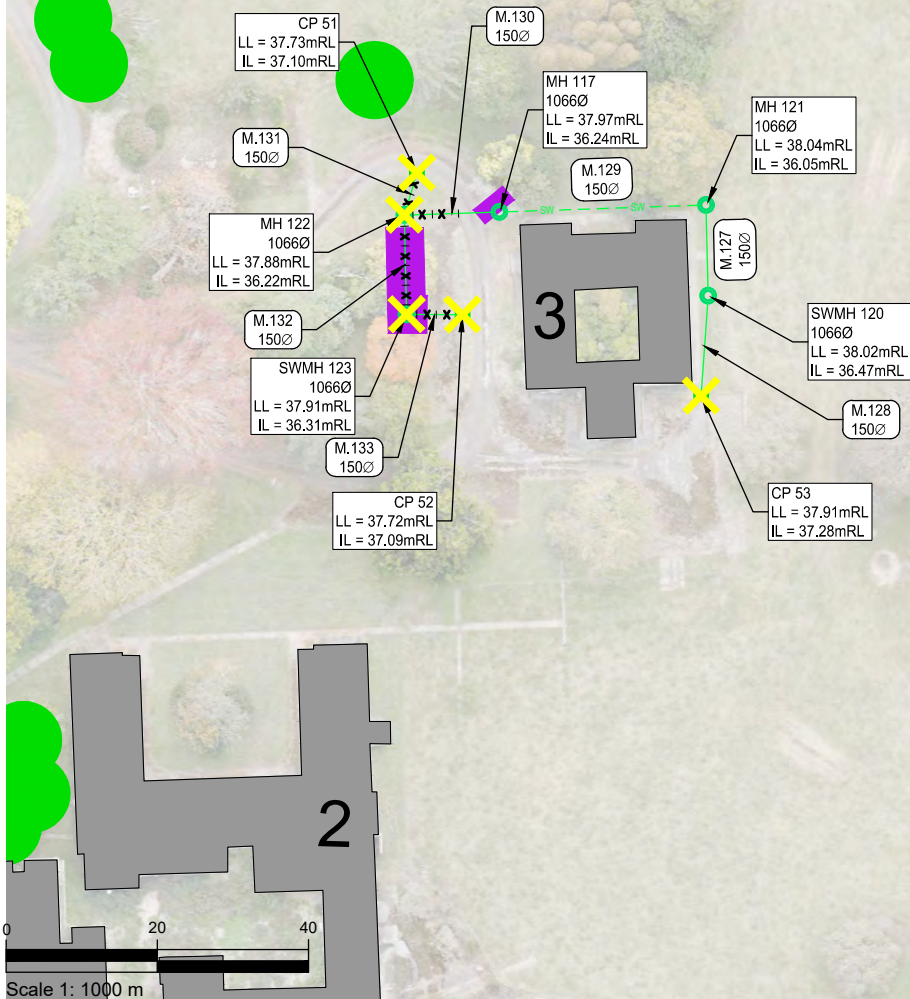
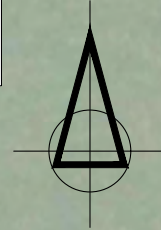
DRAWING No: 33205/2102 **REVISION:** D

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LEGEND - GENERAL

Ex SW Line (High Confidence)	
Ex SW Line (Medium Confidence)	
Ex SW Line (Low Confidence)	
Ex SW Structure (Surveyed)	
Ex SW Structure (Assumed)	
Flood Detention Depression	
Ex Stormwater Line (to be abandoned and removed to 800mm cover)	
Waahi Tapu	
Wetland Extent and 10m Buffer	
Native Tree to be Protected	
Native Shrubs to be Protected	
Ex SW MH (less than 1m depth) to be removed completely	
Trunk SW to be retained	
Vegetation within services removal areas	

All stormwater manholes are to be cut down and removed to 1m deep below existing ground level.



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 - Non trunk lines connecting to the trunk stormwater line are to be capped.
 - If during this process, new pipes <800mm depth (to top of pipe) are found that are not shown on the demolition drawings, advise LINZ project manager/site representative, who will issue instruction for any additional removal works.
 - Survey the locations of any pipes/structures left in the ground and include on asbuilt plans.
 - Backfill excavated cavities and trenches with compacted cleanfill, followed by topsoiling and grassing, except at road crossings that are to remain post-works, which should be backfilled with approved, compacted hardfill.

CLIENT
TOITŪ TE WHENUA - LINZ

PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
STORMWATER DEMOLITION
PLAN (SHEET 3 OF 9)

 **Fraser Thomas**

ENGINEERS • RESOURCE MANAGERS • SURVEYORS

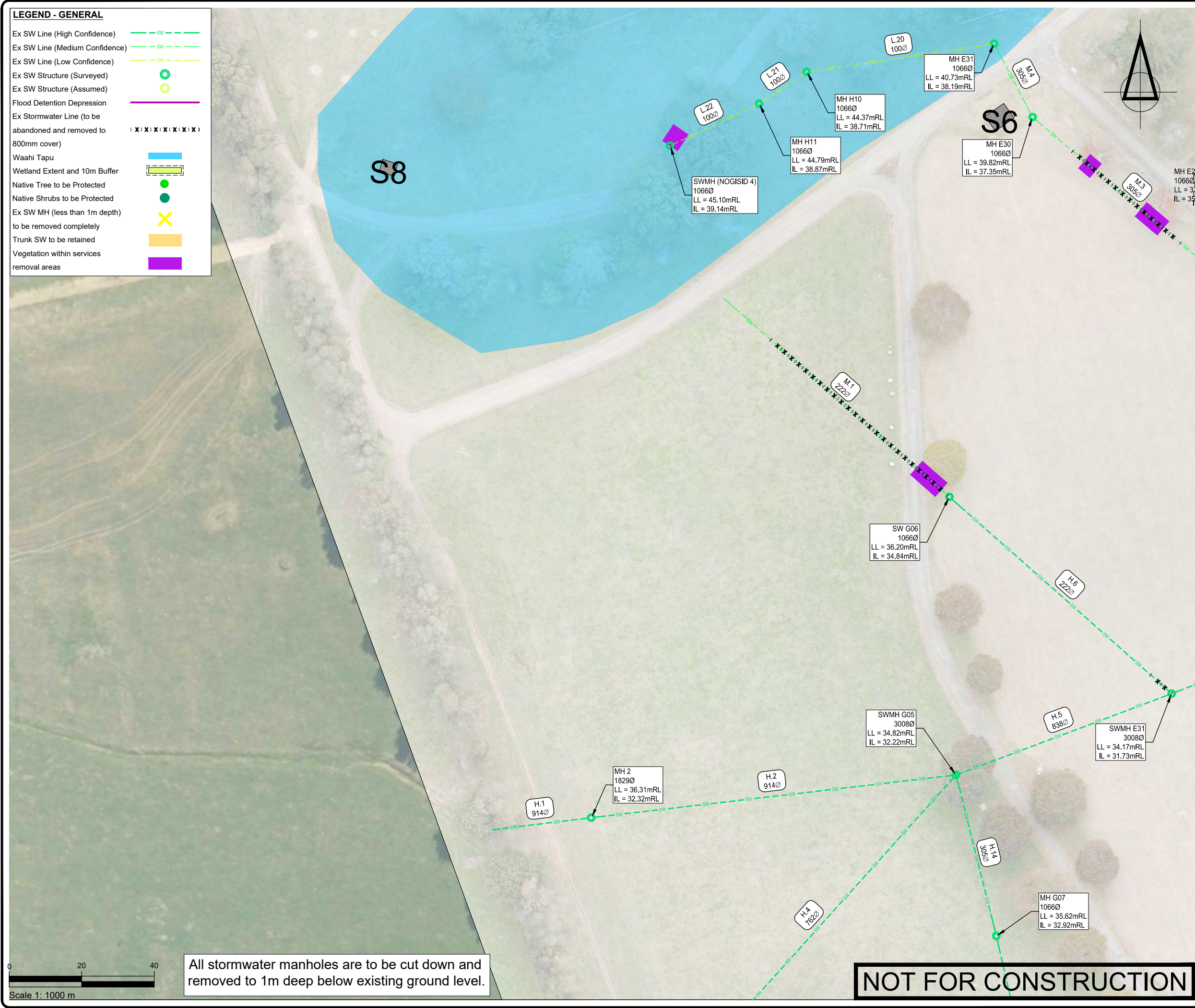
AUCKLAND 09 278 7078
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SCALE 1:1000 (A3)	REVISION
DRAWING No 33205/2103	D

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SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES		CHECKED	DATE	
-	ISSUE FOR INFORMATION		SF	12/12/23	
A	ADDITIONAL INFO ADDED		SF	04/03/24	
B	CHANGE TO SIGNIFICANT AREAS		SF	10/05/24	
C	WETLAND / CULTURAL AREA UPDATES		SF	17/09/24	
D	ADDED AFFECTED VEGETATION		SF	06/11/24	

- NOTES
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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER DEMOLITION
PLAN (SHEET 4 OF 9)

Fraser Thomas

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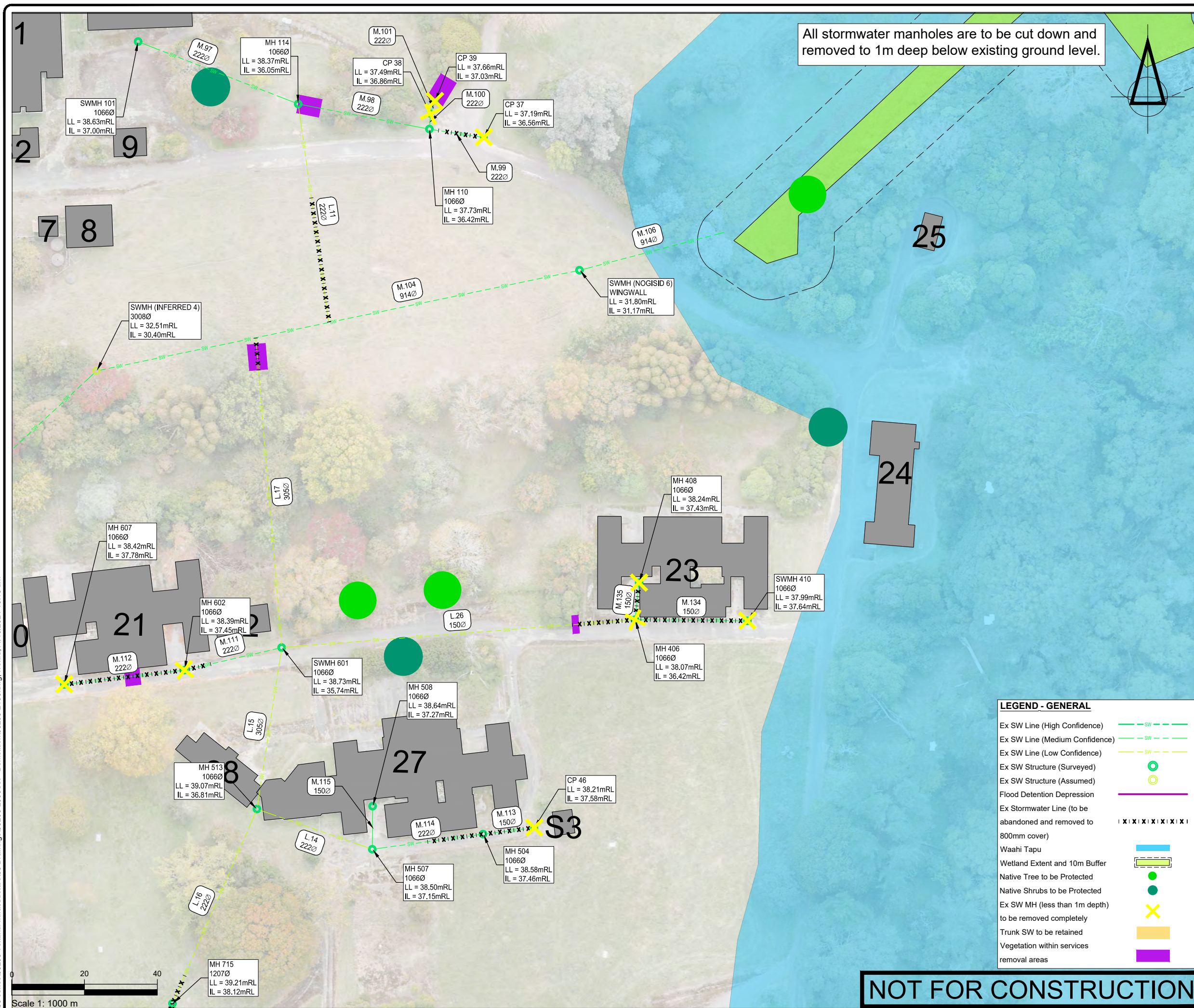
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SCALE 1:1000 (A3)

DRAWING No 33205/2104 REVISION D

[illegible]

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER DEMOLITION
PLAN (SHEET 6 OF 9)



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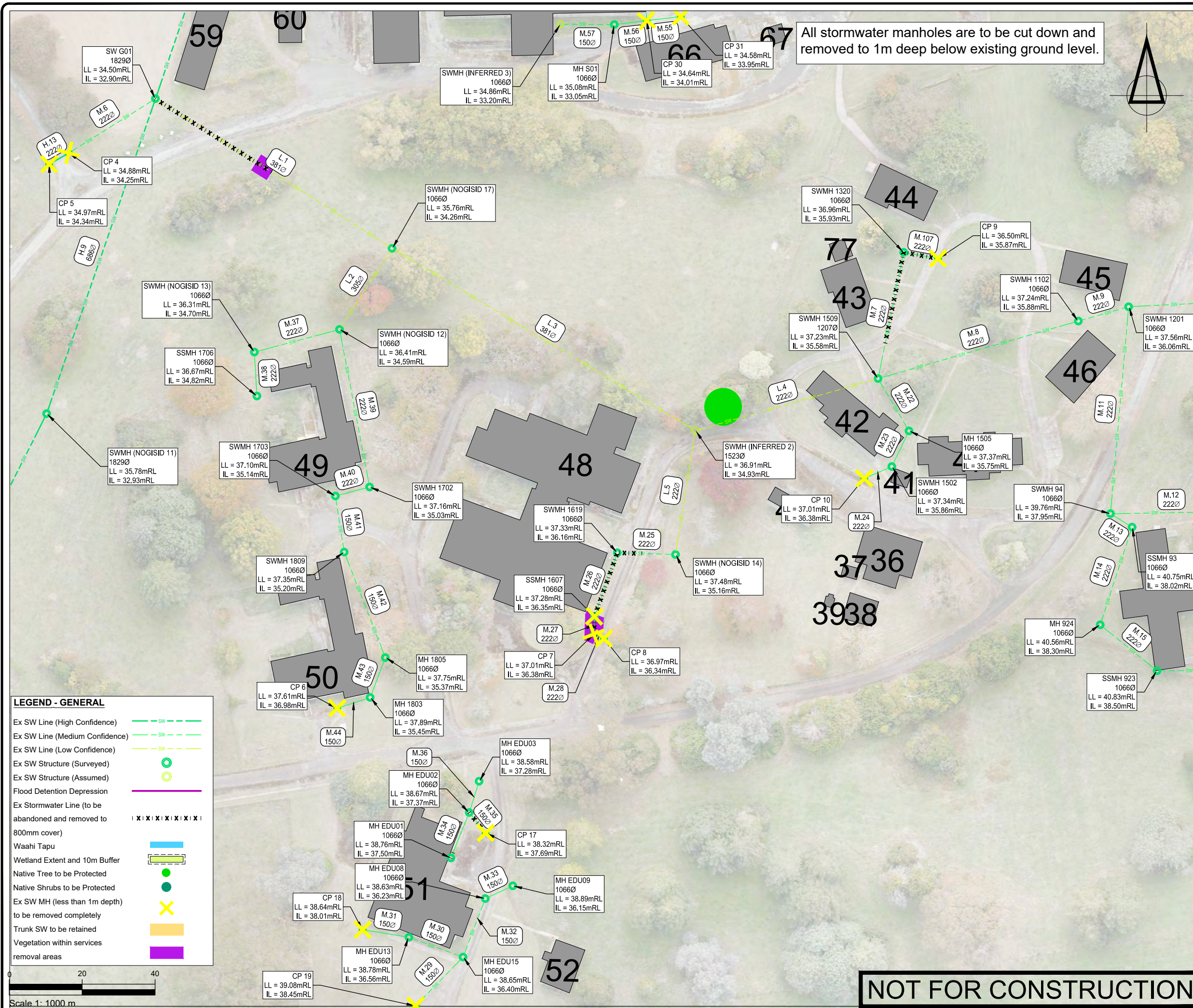
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		D



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SCALE	1:1000 (A3)
DRAWING No	REVISION
33205/2107	D

[illegible]

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CLIENT

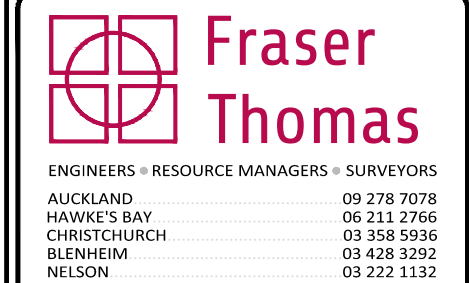
TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

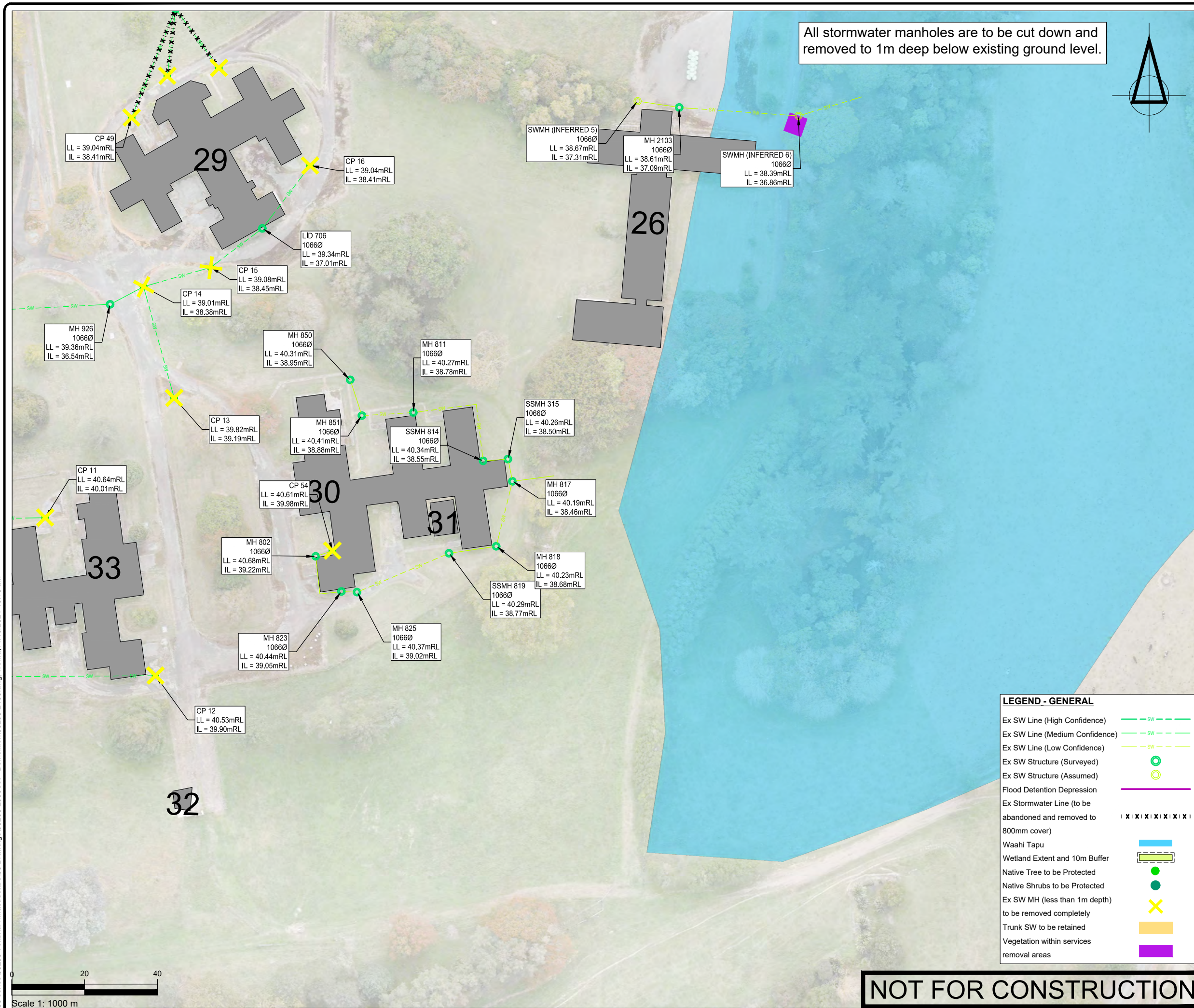
STORMWATER DEMOLITION
PLAN (SHEET 8 OF 9)



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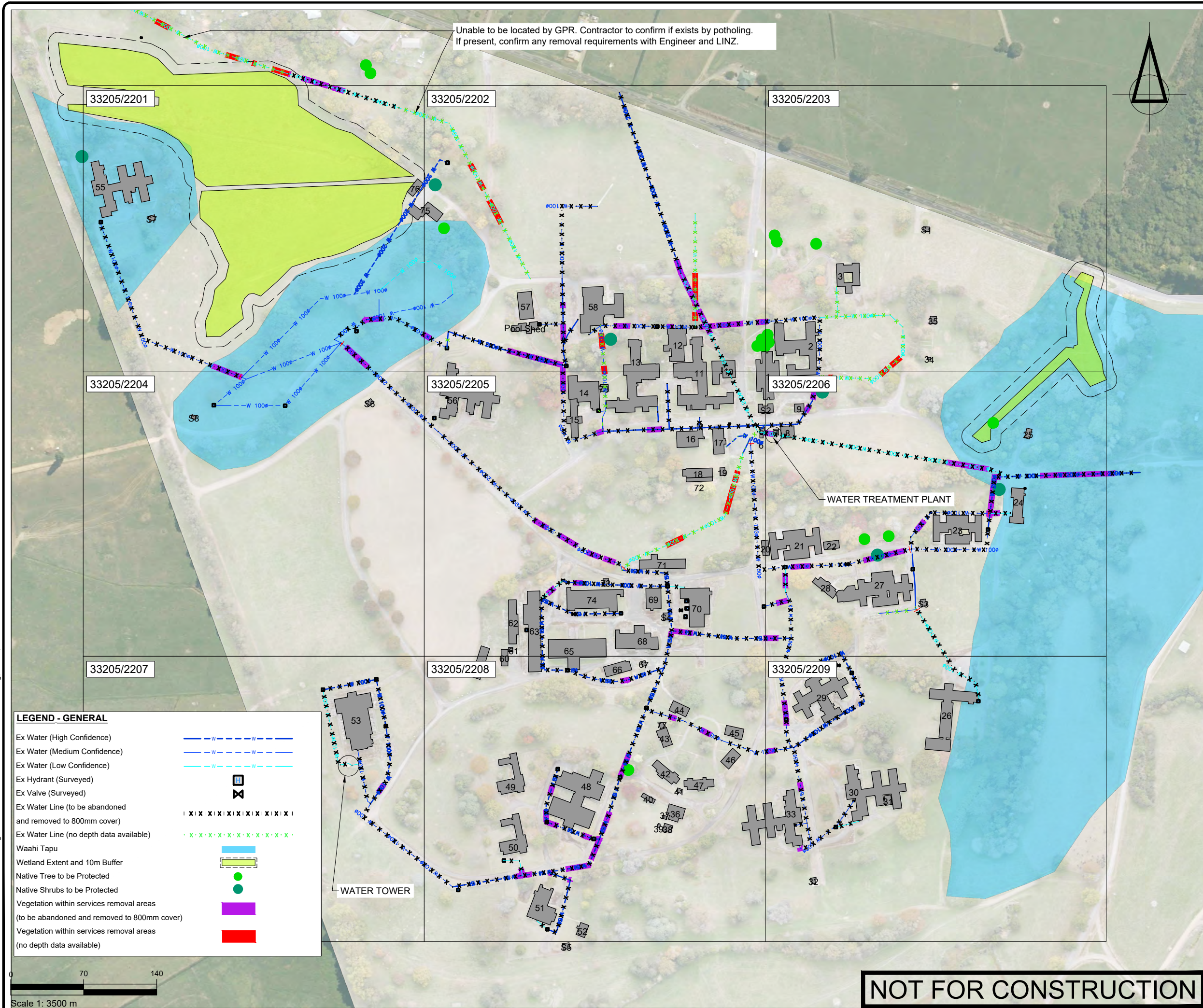
STATUS	FOR RESOURCE CONSENT Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.
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SCALE	1:1000	(A3)
DRAWING No	33205/2108	REVISION
		D

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SCALE	1:1000	(A3)
DRAWING No	33205/2109	REVISION
		D

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DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES		CHECKED	DATE	
-	ISSUE FOR INFORMATION		SF	12/12/23	
A	ADDITIONAL INFO ADDED		SF	04/03/24	
B	CHANGE TO SIGNIFICANT AREAS		SF	10/05/24	
C	WETLAND / CULTURAL AREA UPDATES		SF	17/09/24	
D	ADDED AFFECTED VEGETATION		SF	06/11/24	

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CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WATER DEMOLITION PLAN
LAYOUT

Fraser Thomas

ENGINEERS • RESOURCE MANAGERS • SURVEYORS

AUCKLAND 09 278 7078
HAWKE'S BAY 06 211 2766
CHRISTCHURCH 03 358 5936
BLENHEIM 03 428 3292
NELSON 03 222 1132

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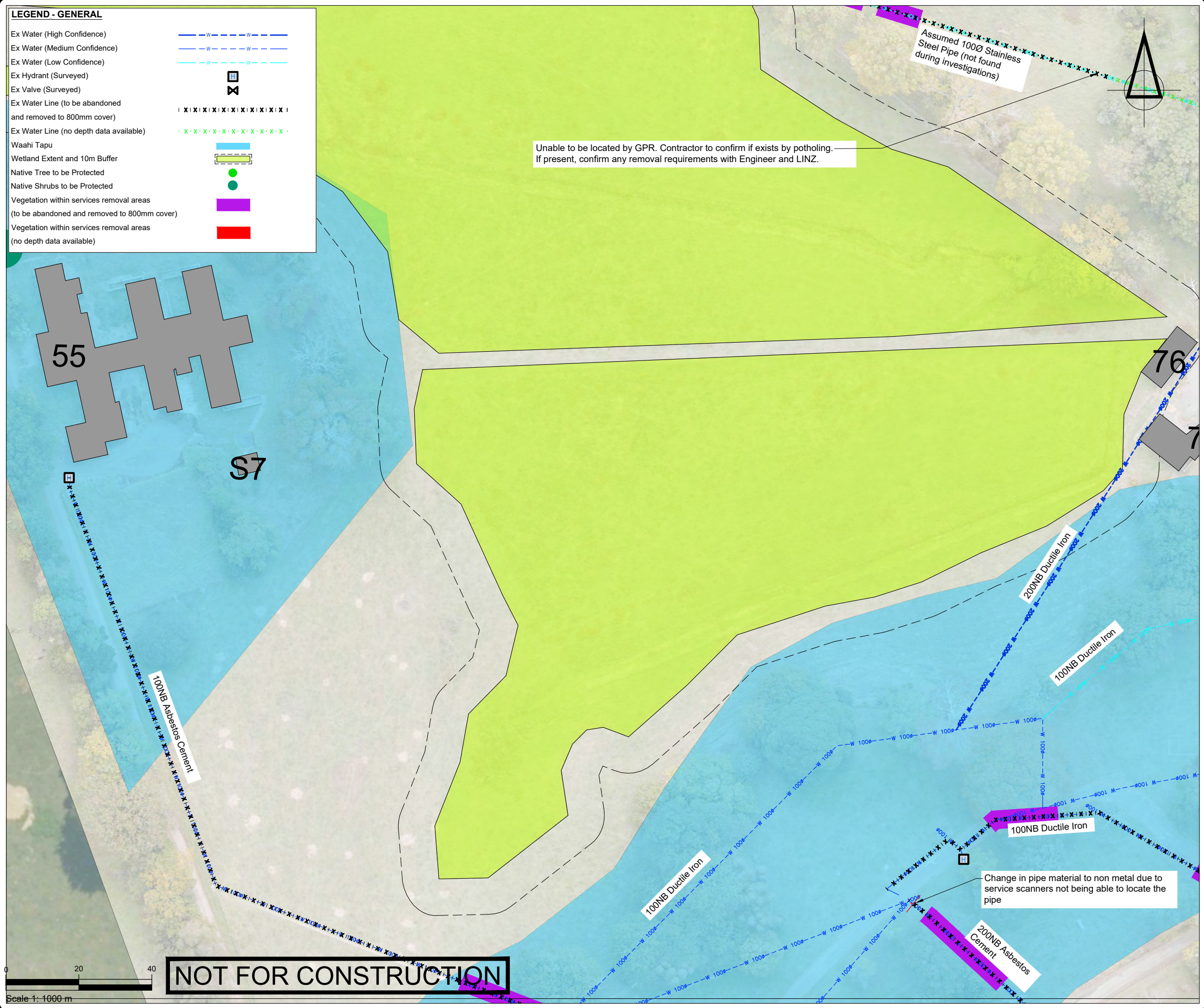
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SCALE 1:3500 (A3)

DRAWING No 33205/2200 REVISION D

P:\33 series\33205 Tokanui Infrastructure\03 Drawings\33205-2000Set - Demolition\33205-2201.dwg, f:\ohra, 11/10/2021 10:18 am



LEGEND - GENERAL

Ex Water (High Confidence)

Ex Water (Medium Confidence)

Ex Water (Low Confidence)

Ex Hydrant (Surveyed)

Ex Valve (Surveyed)

Ex Water Line (to be abandoned and removed to 800mm cover)

Ex Water Line (no depth data available)

Waahi Tapu

Wetland Extent and 10m Buffer

Native Tree to be Protected

Native Shrubs to be Protected

Vegetation within services removal areas (to be abandoned and removed to 800mm cover)

Vegetation within services removal areas (no depth data available)

— W — — W — —

— W — — W — —

— W — — W — —

| X | X | X | X | X | X | X | X | X | X |

· X · X · X · X · X · X · X · X · X · X ·

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DESIGNED	DK	31.05.23	SF	31.05.23
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B	CHANGE TO SIGNIFICANT AREAS		SF	10/05/24
C	WETLAND / CULTURAL AREA UPDATES		SF	17/09/24
D	ADDED AFFECTED VEGETATION		SF	06/11/24

NOTES

1.

All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.

2.

Check that any contaminated soil removal works in areas where services demolition is also required have been completed and certified, prior to starting services demolition works.

3.

All water valve boxes are to be excavated and removed.

4.

All AC pipes to be removed. Connections from non AC pipes to be capped and abandoned.

5.

Backfill excavated cavities and trenches with compacted cleanfill, followed by topsoiling and grassing, except at road crossings that are to remain post-works, which should be backfilled with approved, compacted hardfill.

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WATER DEMOLITION PLAN
(SHEET 1 OF 9)

Fraser
Thomas

ENGINEERS • RESOURCE MANAGERS • SURVEYORS

AUCKLAND.....09 278 7078

HAWKE'S BAY.....06 211 2766

CHRISTCHURCH.....03 358 5936

BLenheim.....03 428 3292

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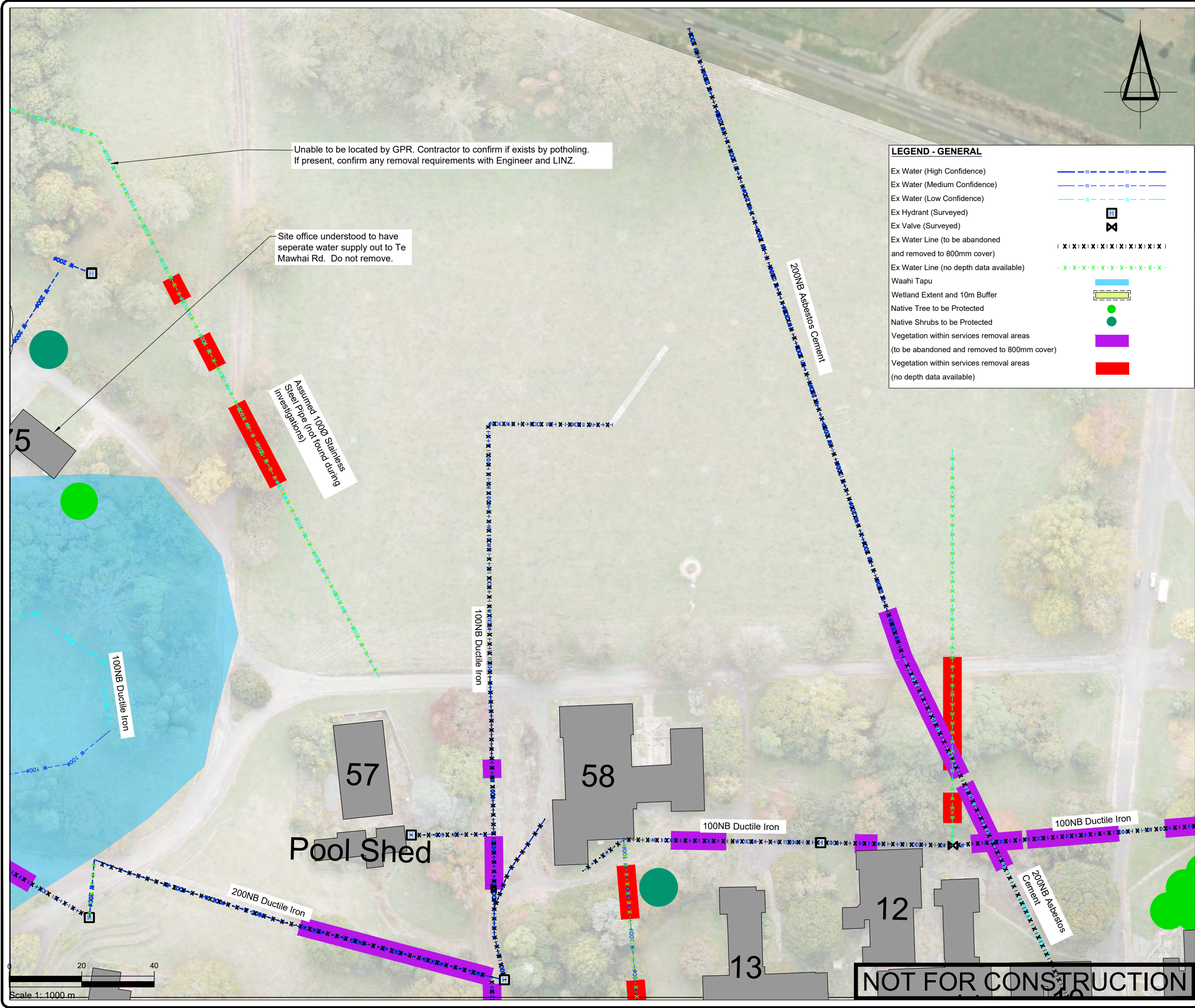
Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.

SCALE 1:1000 (A3)

DRAWING No 33205/2201

REVISION D

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DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES		CHECKED	DATE	
-	ISSUE FOR INFORMATION		SF	12/12/23	
A	ADDITIONAL INFO ADDED		SF	04/03/24	
B	CHANGE TO SIGNIFICANT AREAS		SF	10/05/24	
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CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WATER DEMOLITION PLAN
(SHEET 2 OF 9)



**Fraser
Thomas**

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HAWKE'S BAY 06 211 2766
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DRAWING No 33205/2202 REVISION D

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DESIGNED	DK	31.05.23		
DRAWN	DK	31.05.23		
CHECKED	SF	31.05.23		
REVISION	CHANGES			CHECKED DATE
-	ISSUE FOR INFORMATION			SF 12/12/23
A	ADDITIONAL INFO ADDED			SF 04/03/24
B	CHANGE TO SIGNIFICANT AREAS			SF 10/05/24
C	WETLAND / CULTURAL AREA UPDATES			SF 17/09/24
D	ADDED AFFECTED VEGETATION			SF 06/11/24

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TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WATER DEMOLITION PLAN
(SHEET 3 OF 9)



Fraser

Thomas

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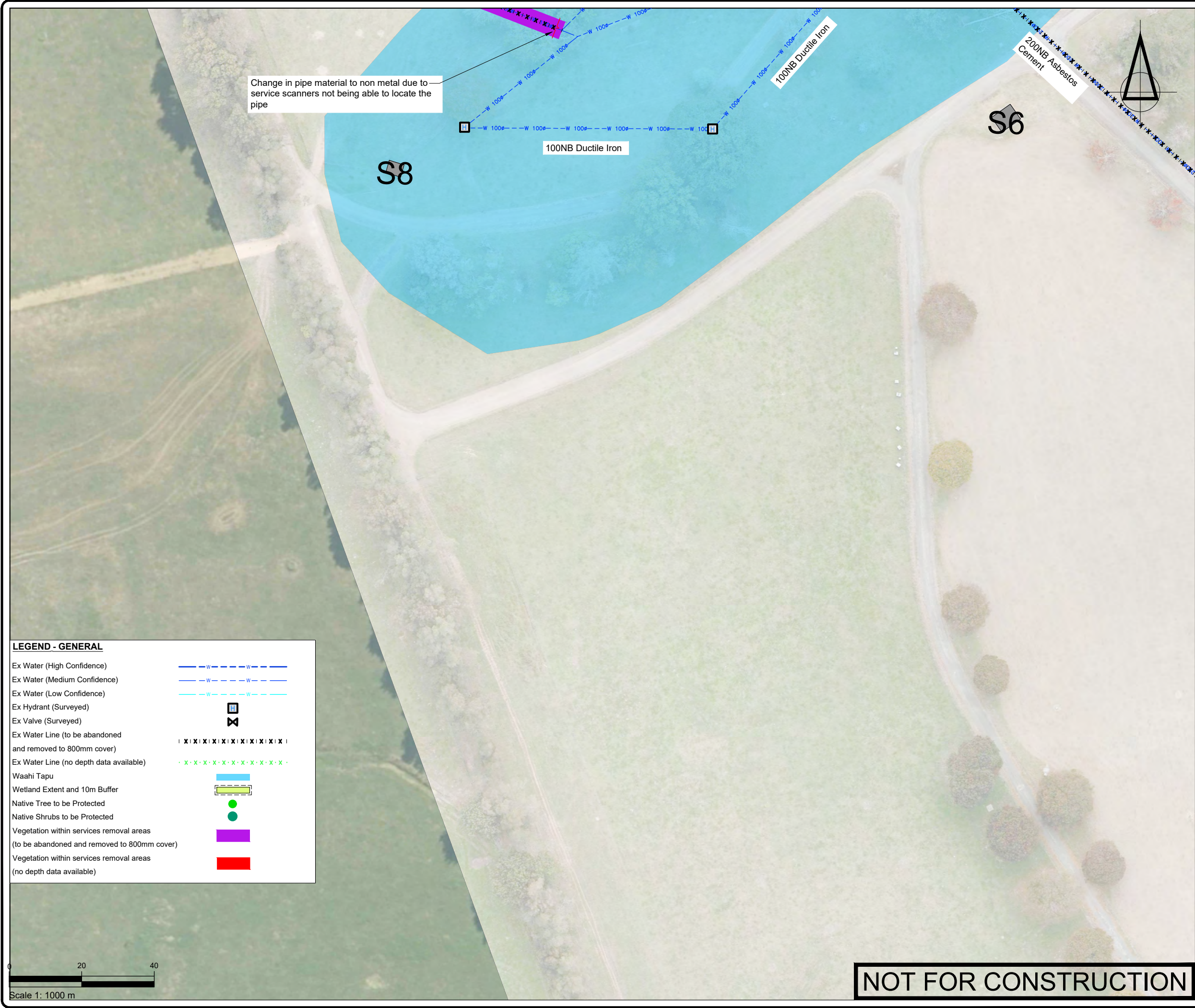
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SCALE	1:1000 (A3)
DRAWING No	33205/2203
REVISION	D

P:\33 series\33205 Tokanui Infrastructure\03 Drawings\33205-2204.dwg, f:\ohra, 11/10/2021 10:18 am



Change in pipe material to non metal due to service scanners not being able to locate the pipe

100NB Ductile Iron

100NB Ductile Iron

200NB Asbestos Cement

S6

S8

LEGEND - GENERAL

- Ex Water (High Confidence)
- Ex Water (Medium Confidence)
- Ex Water (Low Confidence)
- Ex Hydrant (Surveyed)
- Ex Valve (Surveyed)
- Ex Water Line (to be abandoned and removed to 800mm cover)
- Ex Water Line (no depth data available)
- Waahi Tapu
- Wetland Extent and 10m Buffer
- Native Tree to be Protected
- Native Shrubs to be Protected
- Vegetation within services removal areas (to be abandoned and removed to 800mm cover)
- Vegetation within services removal areas (no depth data available)

SURVEYED	BSCL	24.04.23	APPROVED SF 31.05.23	DATE	
DESIGNED	DK	31.05.23			
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TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WATER DEMOLITION PLAN
(SHEET 4 OF 9)



Fraser Thomas

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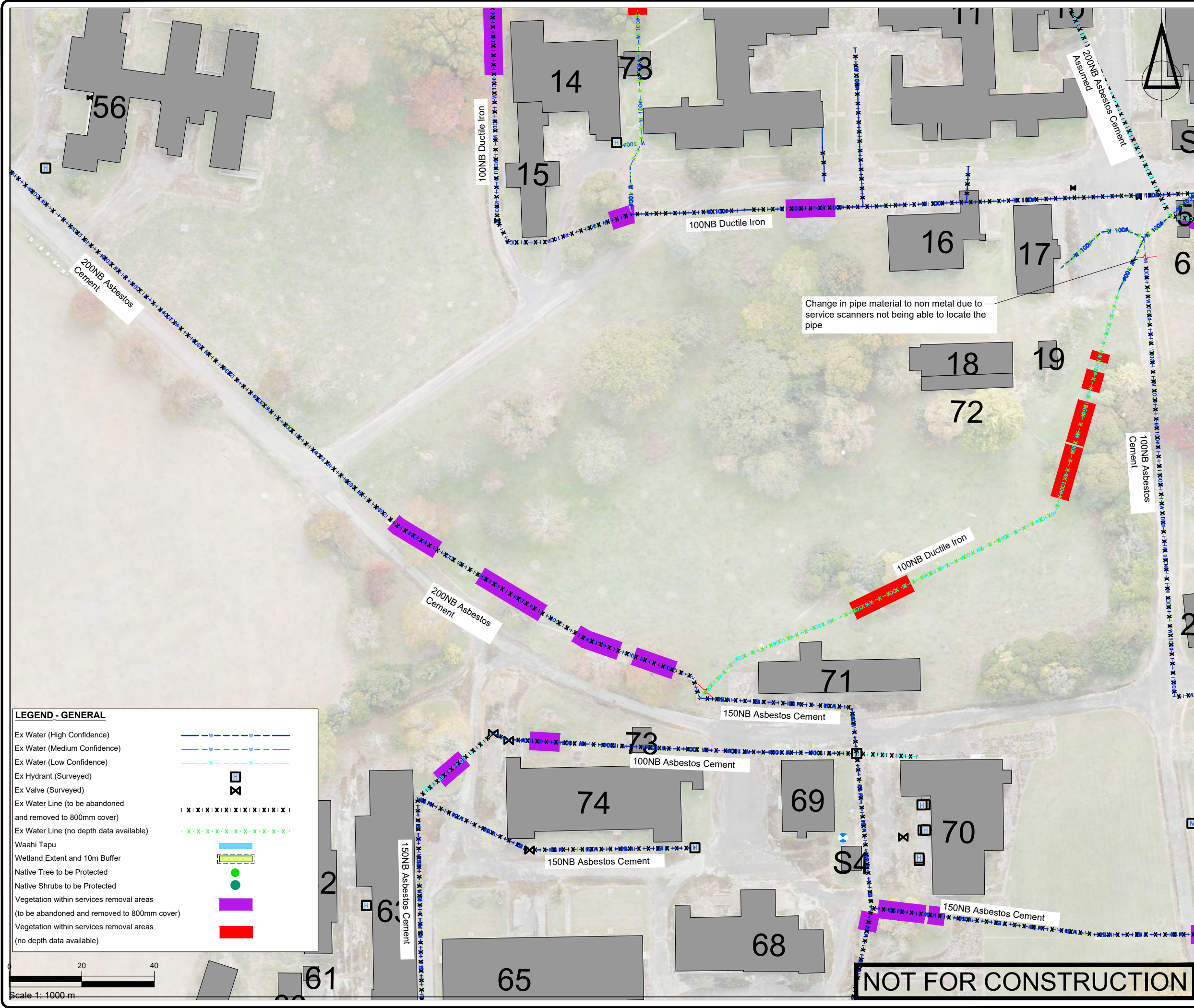
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SCALE	1:1000	(A3)
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DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
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REVISION	CHANGES		CHECKED	DATE	
-	ISSUE FOR INFORMATION		SF	12/12/23	
A	ADDITIONAL INFO ADDED		SF	04/03/24	
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TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WATER DEMOLITION PLAN
(SHEET 5 OF 9)



**Fraser
Thomas**

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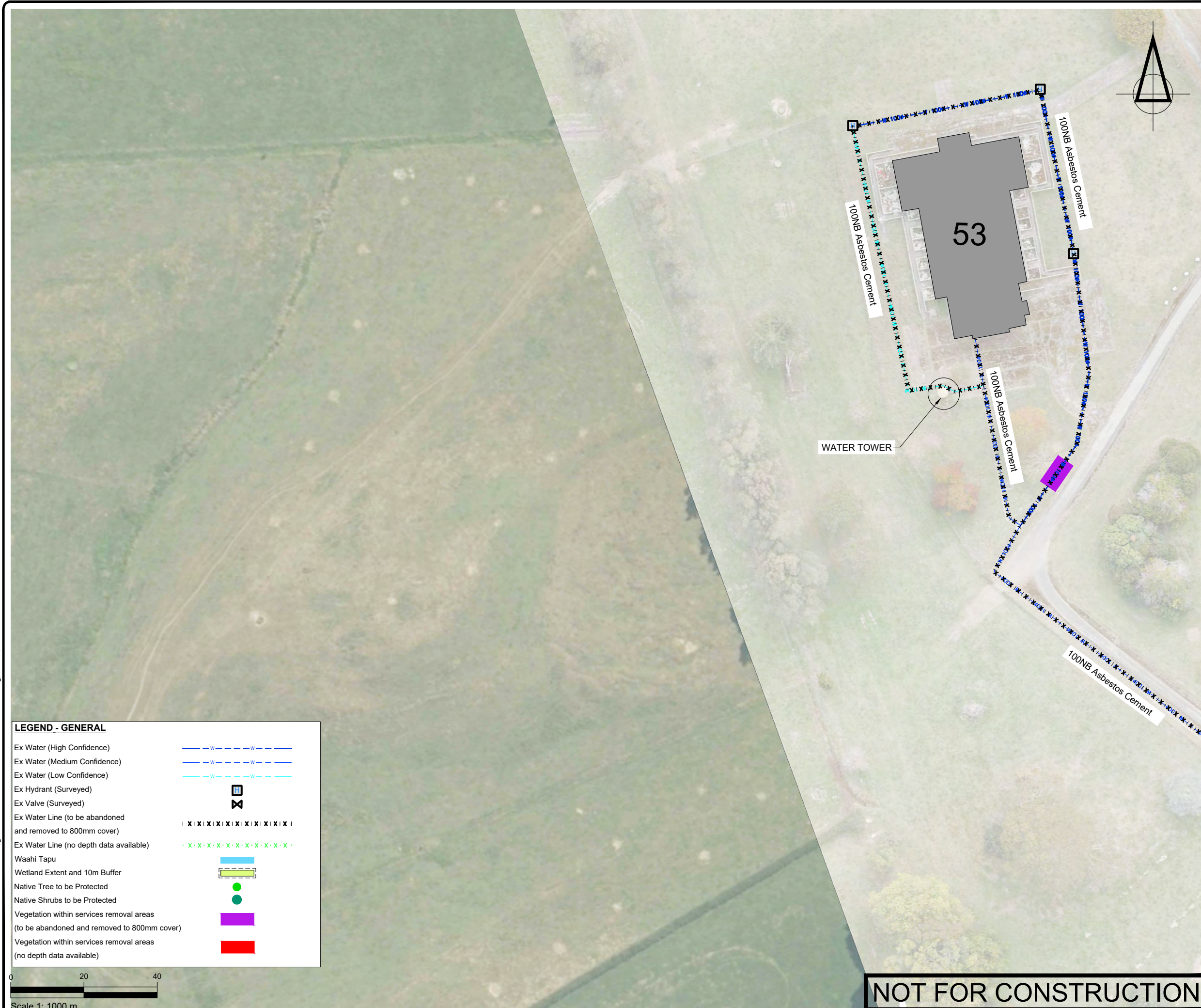
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[illegible]

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TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WATER DEMOLITION PLAN
(SHEET 7 OF 9)



Fraser Thomas

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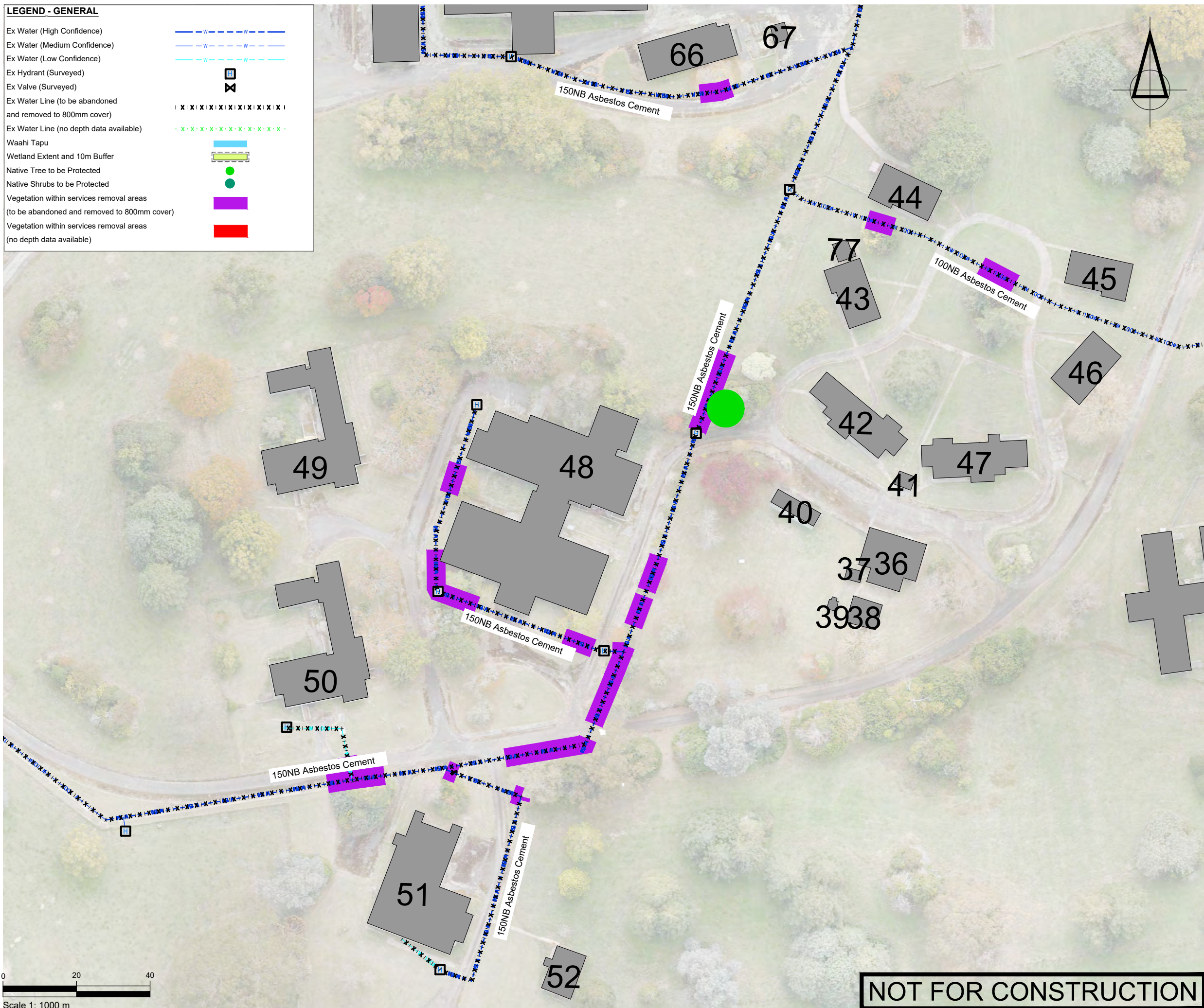
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SCALE	1:1000 (A3)
DRAWING No	33205/2207 REVISION D

P:\33 series\33205 Tokanui Infrastructure\03 Drawings\33205-2208.dwg, f:\ohra, 11/10/2021 10:18 am

LEGEND - GENERAL

Ex Water (High Confidence)	
Ex Water (Medium Confidence)	
Ex Water (Low Confidence)	
Ex Hydrant (Surveyed)	
Ex Valve (Surveyed)	
Ex Water Line (to be abandoned and removed to 800mm cover)	
Ex Water Line (no depth data available)	
Waahi Tapu	
Wetland Extent and 10m Buffer	
Native Tree to be Protected	
Native Shrubs to be Protected	
Vegetation within services removal areas (to be abandoned and removed to 800mm cover)	
Vegetation within services removal areas (no depth data available)	



SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES			CHECKED	DATE
-	ISSUE FOR INFORMATION			SF	12/12/23
A	ADDITIONAL INFO ADDED			SF	04/03/24
B	CHANGE TO SIGNIFICANT AREAS			SF	10/05/24
C	WETLAND / CULTURAL AREA UPDATES			SF	17/09/24
D	ADDED AFFECTED VEGETATION			SF	06/11/24

NOTES

- All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.
- Check that any contaminated soil removal works in areas where services demolition is also required have been completed and certified, prior to starting services demolition works.
- All water valve boxes are to be excavated and removed.
- All AC pipes to be removed. Connections from non AC pipes to be capped and abandoned.
- Backfill excavated cavities and trenches with compacted cleanfill, followed by topsoiling and grassing, except at road crossings that are to remain post-works, which should be backfilled with approved, compacted hardfill.

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WATER DEMOLITION PLAN
(SHEET 8 OF 9)



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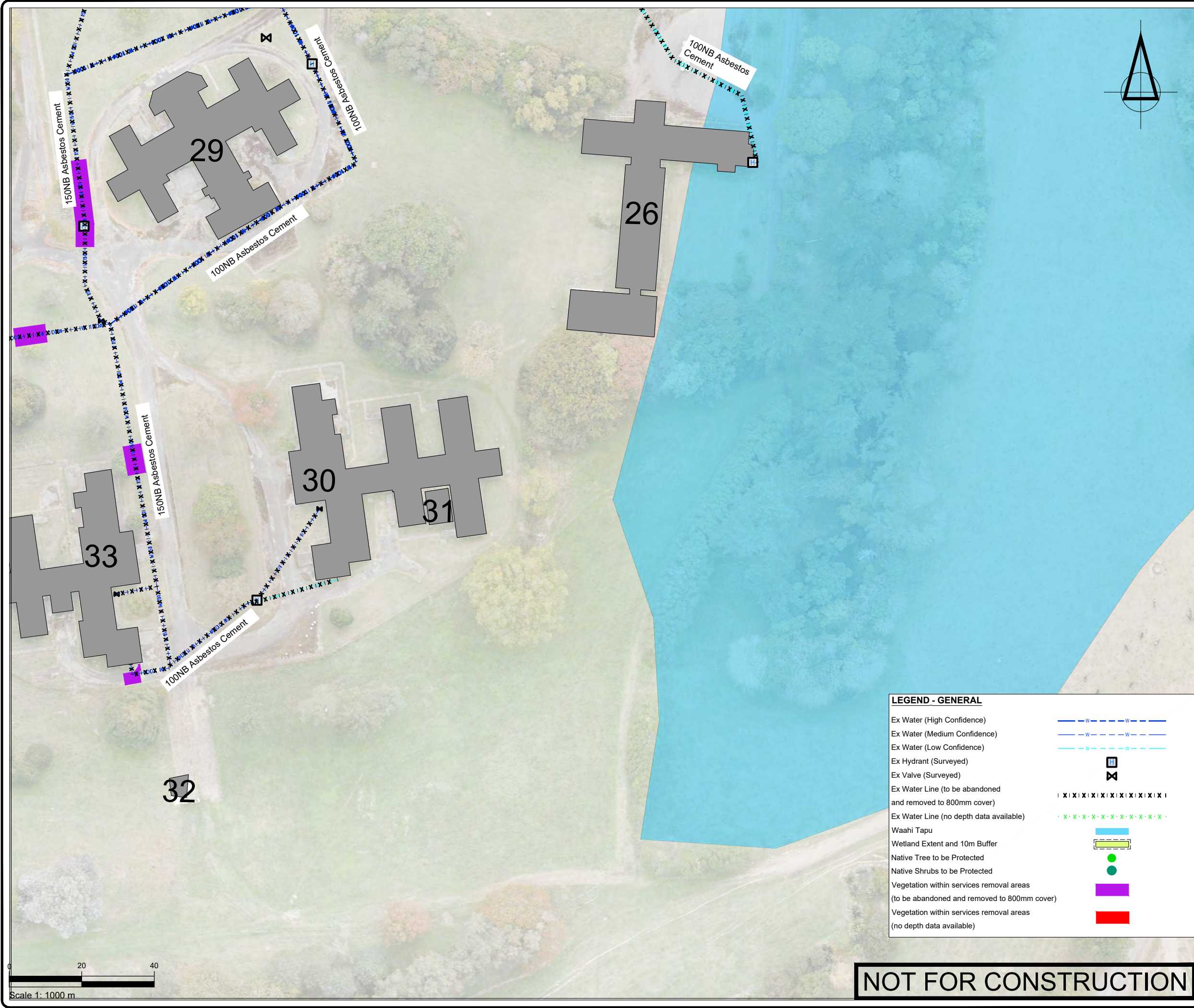
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DRAWING No. 33205/2208 REVISION D

P:\33 series\33205 Tokanui Infrastructure\03 Drawings\33205-2000Set - Demolition\33205-2209.dwg, f:\ohra, 11/10/2021 10:18 am



LEGEND - GENERAL

- Ex Water (High Confidence)
- Ex Water (Medium Confidence)
- Ex Water (Low Confidence)
- Ex Hydrant (Surveyed)
- Ex Valve (Surveyed)
- Ex Water Line (to be abandoned and removed to 800mm cover)
- Ex Water Line (no depth data available)
- Waahi Tapu
- Wetland Extent and 10m Buffer
- Native Tree to be Protected
- Native Shrubs to be Protected
- Vegetation within services removal areas (to be abandoned and removed to 800mm cover)
- Vegetation within services removal areas (no depth data available)

SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
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A	ADDITIONAL INFO ADDED			SF	04/03/24
B	CHANGE TO SIGNIFICANT AREAS			SF	10/05/24
C	WETLAND / CULTURAL AREA UPDATES			SF	17/09/24
D	ADDED AFFECTED VEGETATION			SF	06/11/24

- NOTES
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 - All AC pipes to be removed. Connections from non AC pipes to be capped and abandoned.
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CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

WATER DEMOLITION PLAN
(SHEET 9 OF 9)



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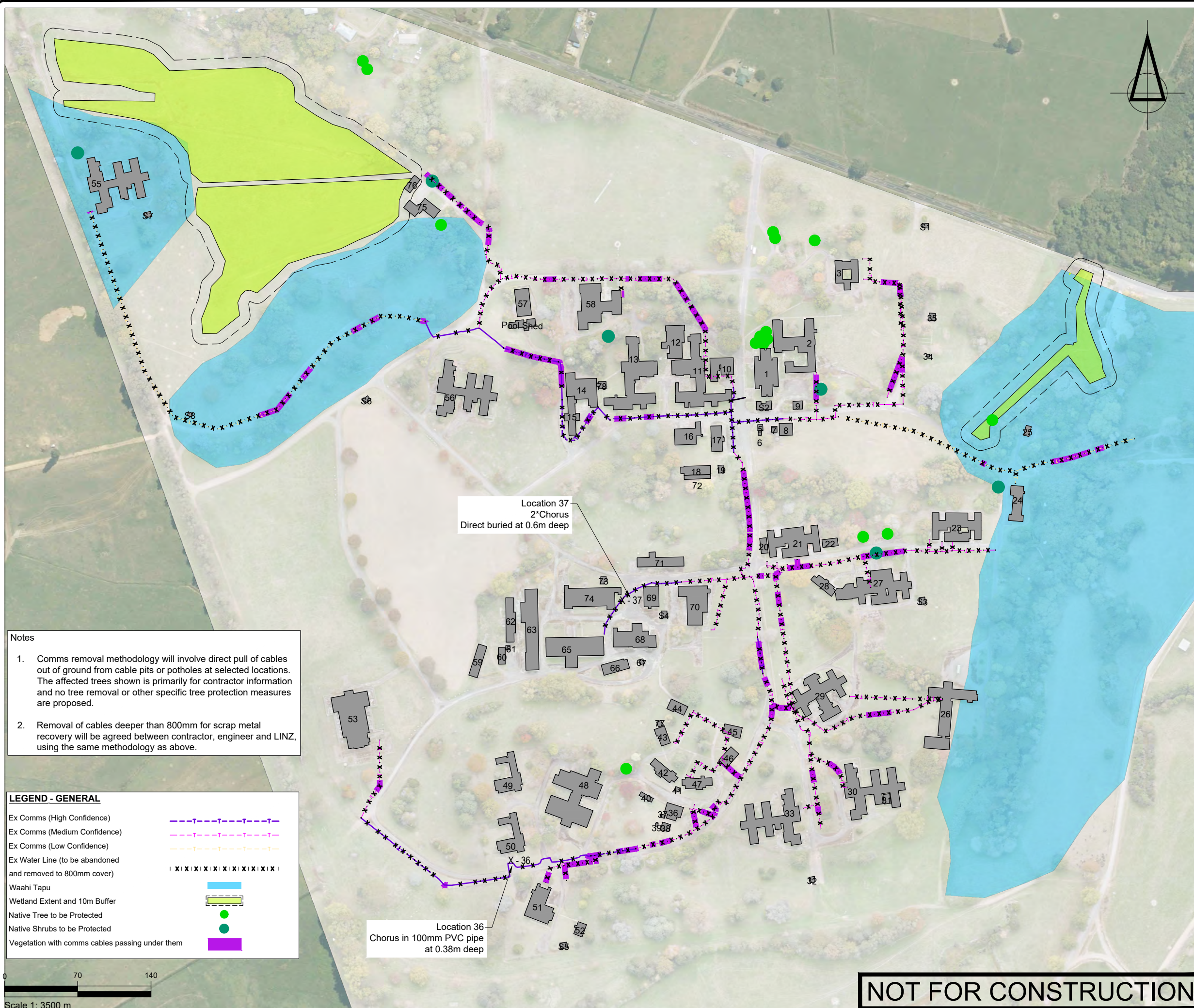
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DRAWING No 33205/2209 REVISION D

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Notes

- Comms removal methodology will involve direct pull of cables out of ground from cable pits or potholes at selected locations. The affected trees shown is primarily for contractor information and no tree removal or other specific tree protection measures are proposed.
- Removal of cables deeper than 800mm for scrap metal recovery will be agreed between contractor, engineer and LINZ, using the same methodology as above.

LEGEND - GENERAL

- | | |
|--|--|
| Ex Comms (High Confidence) | |
| Ex Comms (Medium Confidence) | |
| Ex Comms (Low Confidence) | |
| Ex Water Line (to be abandoned and removed to 800mm cover) | |
| Waahi Tapu | |
| Wetland Extent and 10m Buffer | |
| Native Tree to be Protected | |
| Native Shrubs to be Protected | |
| Vegetation with comms cables passing under them | |

0 70 140
Scale 1: 3500 m

SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
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CHECKED	SF	31.05.23			
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-	ISSUE FOR INFORMATION		SF	12/12/23	
A	ADDITIONAL INFO ADDED		SF	04/03/24	
B	CHANGE TO SIGNIFICANT AREAS		SF	10/05/24	
C	WETLAND / CULTURAL AREA UPDATES		SF	17/09/24	
D	ADDED AFFECTED VEGETATION		SF	06/11/24	

NOTES

- All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.
- Check that any contaminated soil removal works in areas where services demolition is also required have been completed and certified, prior to starting services demolition works.
- All comms pits are to be removed.

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

COMMS DEMOLITION PLAN
LAYOUT



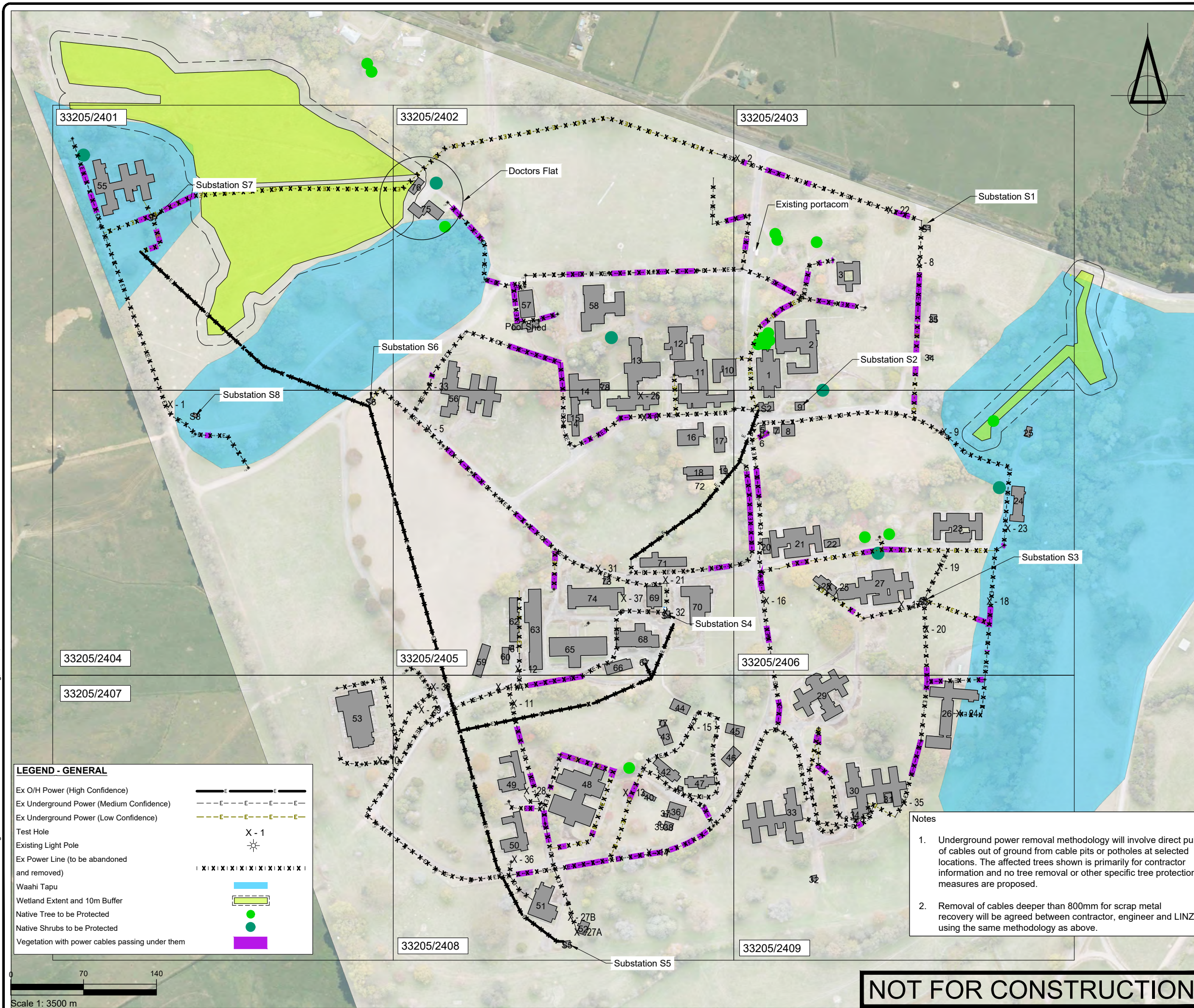
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SCALE	1:3500	(A3)
DRAWING No	33205/2300	REVISION
		D

[illegible]

- NOTES
1. All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.
 2. Check that any contaminated soil removal works in areas where services demolition is also required have been completed and certified, prior to starting services demolition works.
 3. Existing power layout is based on Civtec field investigations.
 4. All existing above and underground power to be removed, including all poles, boxes and pits.
 5. Power supply to the doctors flat and portacom to be maintained live during the demolition work. The contractor is to determine the cable feed location and to maintain it as a live connection.
 6. SL = street light

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

POWER DEMOLITION PLAN
LAYOUT

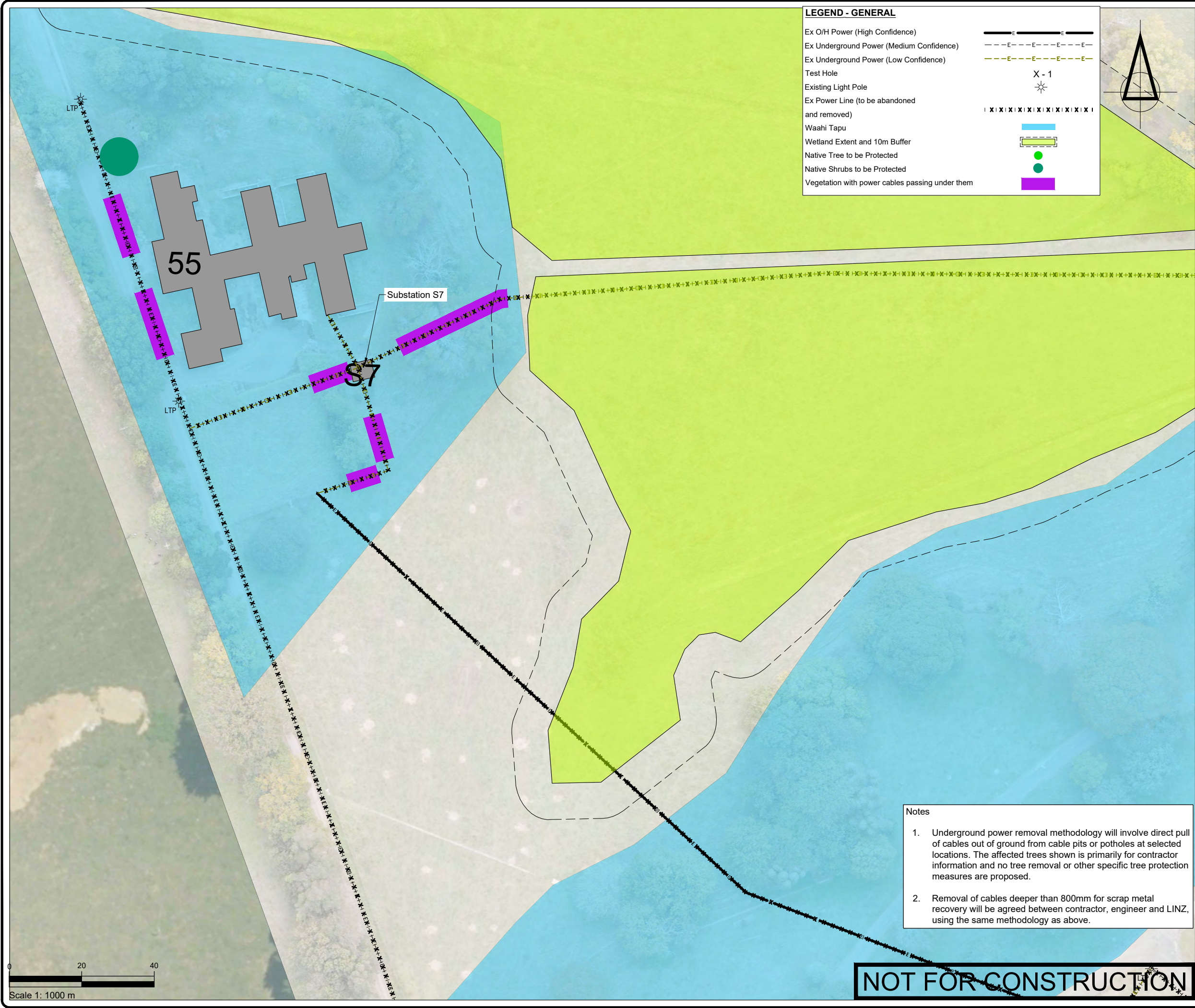


STATUS
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SCALE	1:3500	(A3)
DRAWING No	33205/2400	REVISION D

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REVISION	CHANGES			CHECKED	DATE
-	ISSUE FOR INFORMATION			SF	12/12/23
A	ADDITIONAL INFO ADDED			SF	04/03/24
B	CHANGE TO SIGNIFICANT AREAS			SF	10/05/24
C	WETLAND / CULTURAL AREA UPDATES			SF	17/09/24
D	ADDED CABLE PROTECTION DETAIL			SF	06/11/24

- NOTES
- All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.
 - Check that any contaminated soil removal works in areas where services demolition is also required have been completed and certified, prior to starting services demolition works.
 - Existing power layout is based on Civtec field investigations.
 - All existing above and underground power to be removed, including all poles, boxes and pits.
 - Power supply to the doctors flat to be maintained live during the demolition work. The contractor is to determine the cable feed location and to maintain it as a live connection.
 - SL = street light

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

POWER DEMOLITION PLAN
(SHEET 1 OF 9)



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SCALE	1:1000		(A3)
DRAWING No	33205/2401	REVISION	D

- Notes
- Underground power removal methodology will involve direct pull of cables out of ground from cable pits or potholes at selected locations. The affected trees shown is primarily for contractor information and no tree removal or other specific tree protection measures are proposed.
 - Removal of cables deeper than 800mm for scrap metal recovery will be agreed between contractor, engineer and LINZ, using the same methodology as above.

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DESIGNED	DK	31.05.23	SF	31.05.23
DRAWN	DK	31.05.23		
CHECKED	SF	31.05.23		
REVISION	CHANGES		CHECKED	DATE
-	ISSUE FOR INFORMATION		SF	12/12/23
A	ADDITIONAL INFO ADDED		SF	04/03/24
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C	WETLAND / CULTURAL AREA UPDATES		SF	17/09/24
D	ADDED CABLE PROTECTION DETAIL		SF	06/11/24

- NOTES
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 - Existing power layout is based on Civtec field investigations.
 - All existing above and underground power to be removed, including all poles, boxes and pits.
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 - SL = street light

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

POWER DEMOLITION PLAN
(SHEET 2 OF 9)



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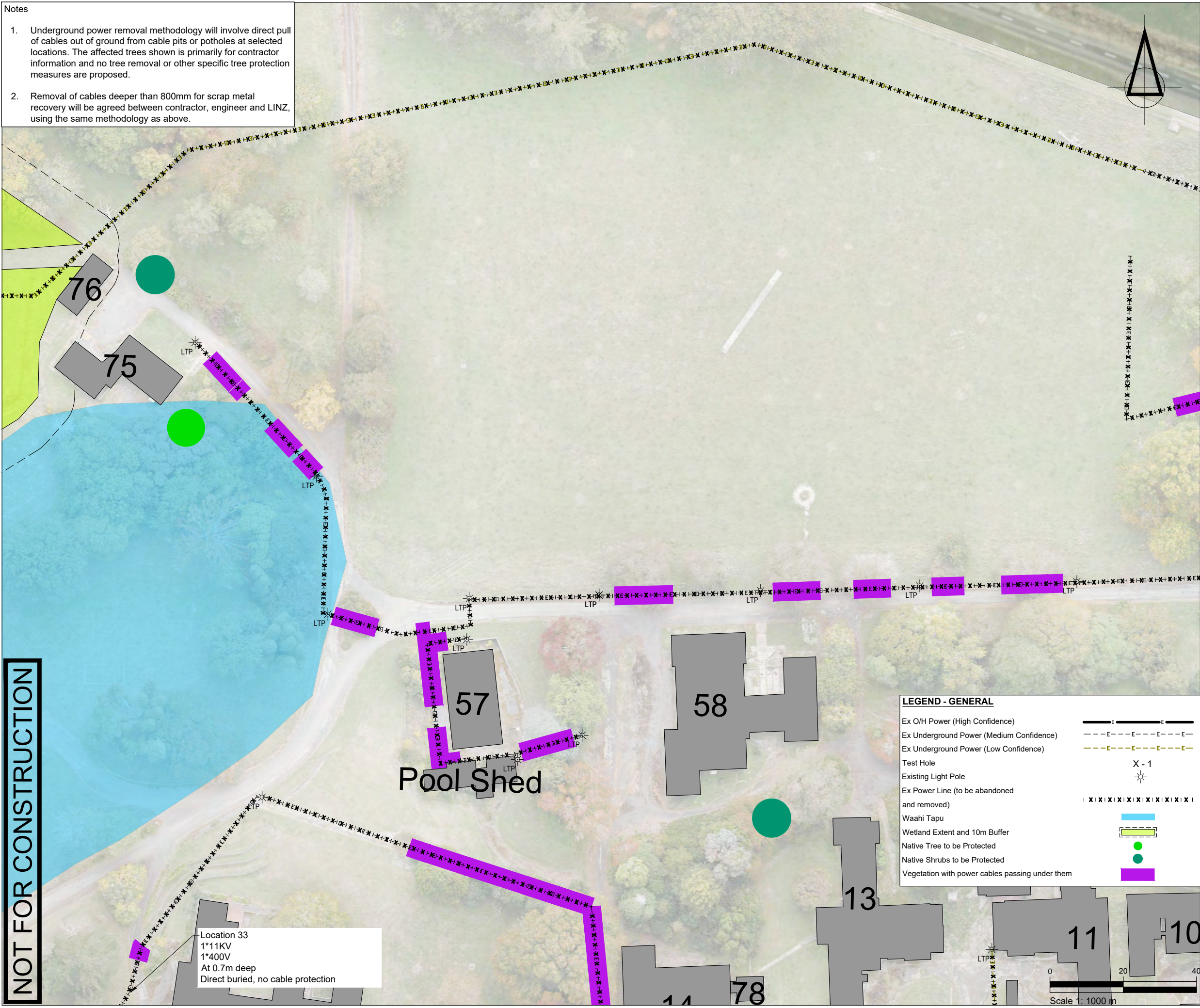
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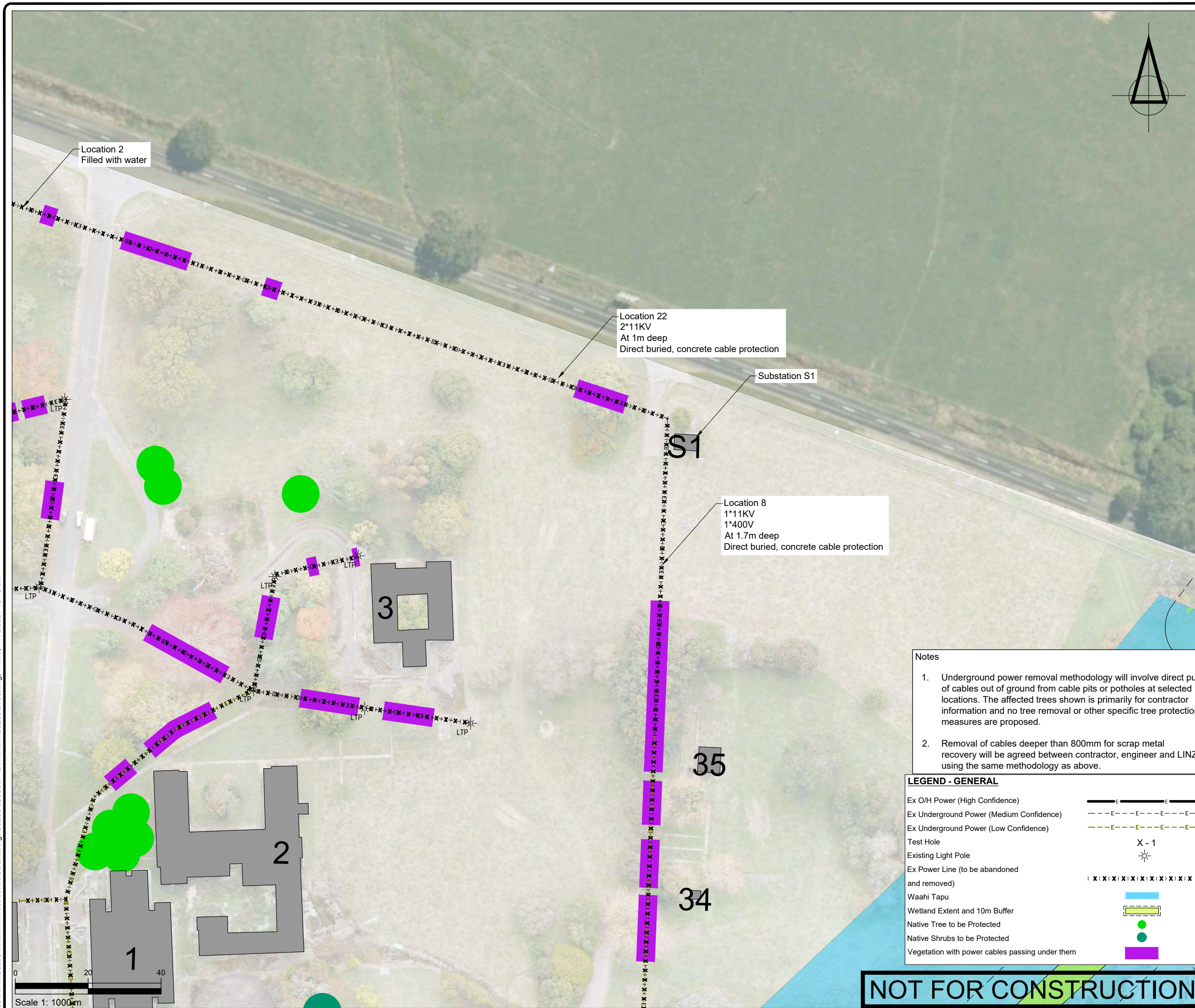
STATUS

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SCALE	1:1000	(A3)
DRAWING No	33205/2402	REVISION
		D



[illegible]

- NOTES

 1. All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consents conditions and all other works approvals and best practice industry guidelines/requirements.
 2. Check that any contaminated soil removal works in areas where services demolition is also required have been completed and certified, prior to starting service demolition works.
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SL = street light
 - 6.

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

POWER DEMOLITION PLAN
(SHEET 3 OF 9)



Fraser Thomas

ENGINEERS • RESOURCE MANAGERS • SURVEYORS

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SCALE	1:1000	(A)
DRAWING No	33205/2403	REVISION
		D

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LEGEND - GENERAL

Ex O/H Power (High Confidence)

Ex Underground Power (Medium Confidence)

Ex Underground Power (Low Confidence)

Test Hole

Existing Light Pole

Ex Power Line (to be abandoned and removed)

Waahi Tapu

Wetland Extent and 10m Buffer

Native Tree to be Protected

Native Shrubs to be Protected

Vegetation with power cables passing under them

—E—E—E—E—E—E—

---E---E---E---E---

---E---E---E---E---

X - 1

|X|X|X|X|X|X|X|X|X|X|

Location 1
Power
At 0.85m deep
Direct buried, no cable protection

S8

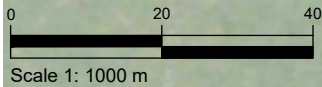
Substation S8

LTP

LTP

Substation S6

S6



Notes

- Underground power removal methodology will involve direct pull of cables out of ground from cable pits or potholes at selected locations. The affected trees shown is primarily for contractor information and no tree removal or other specific tree protection measures are proposed.
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NOT FOR CONSTRUCTION

SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
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D	ADDED CABLE PROTECTION DETAIL			SF	06/11/24

NOTES

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- SL = street light

CLIENT
TOITŪ TE WHENUA - LINZ

PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

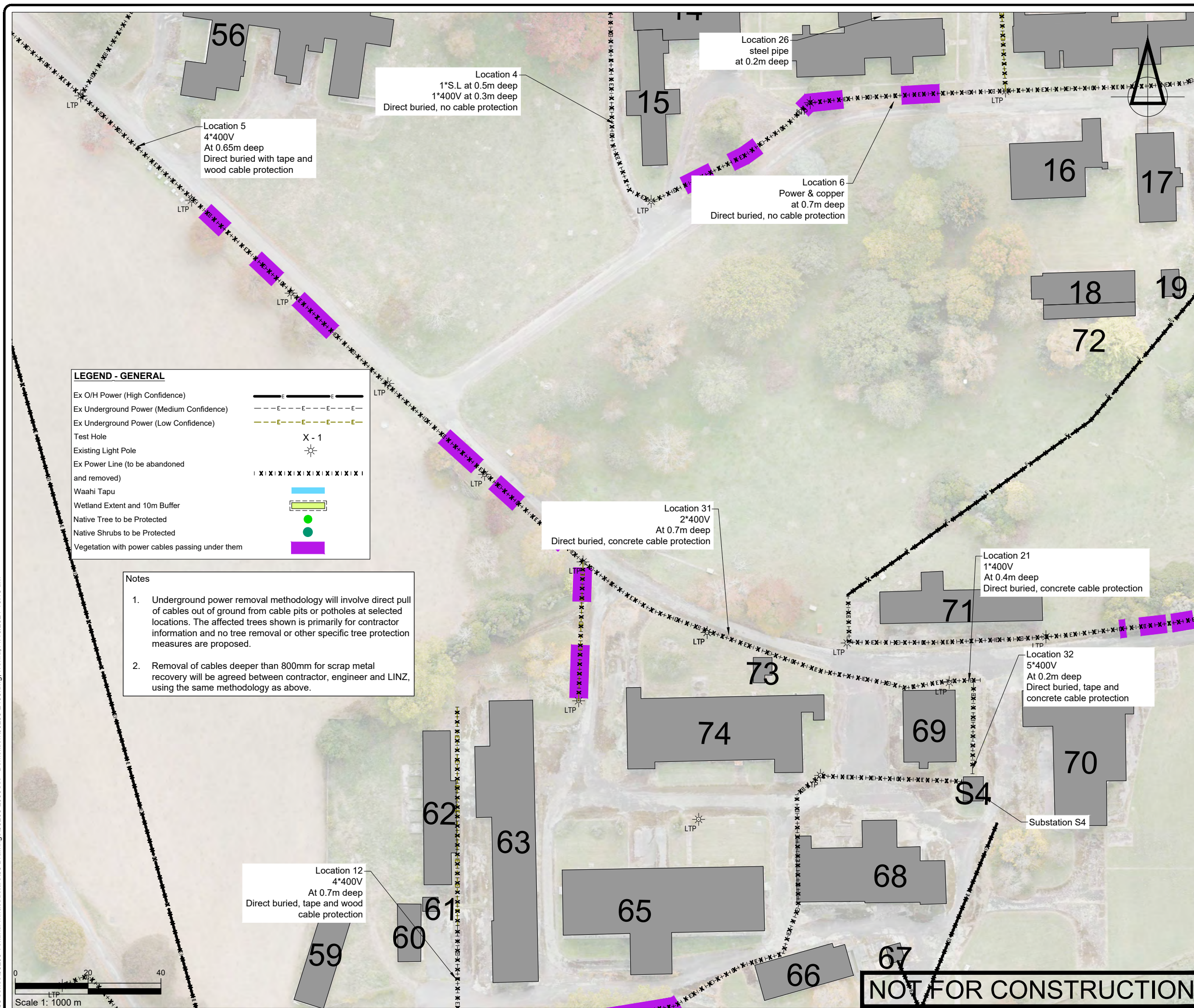
TITLE
POWER DEMOLITION PLAN
(SHEET 4 OF 9)



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SCALE 1:1000	(A3)
DRAWING No 33205/2404	REVISION D

[illegible]

- ## NOTES
1. All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.
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 6. SL = street light

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

POWER DEMOLITION PLAN
(SHEET 5 OF 9)

Fraser Thomas

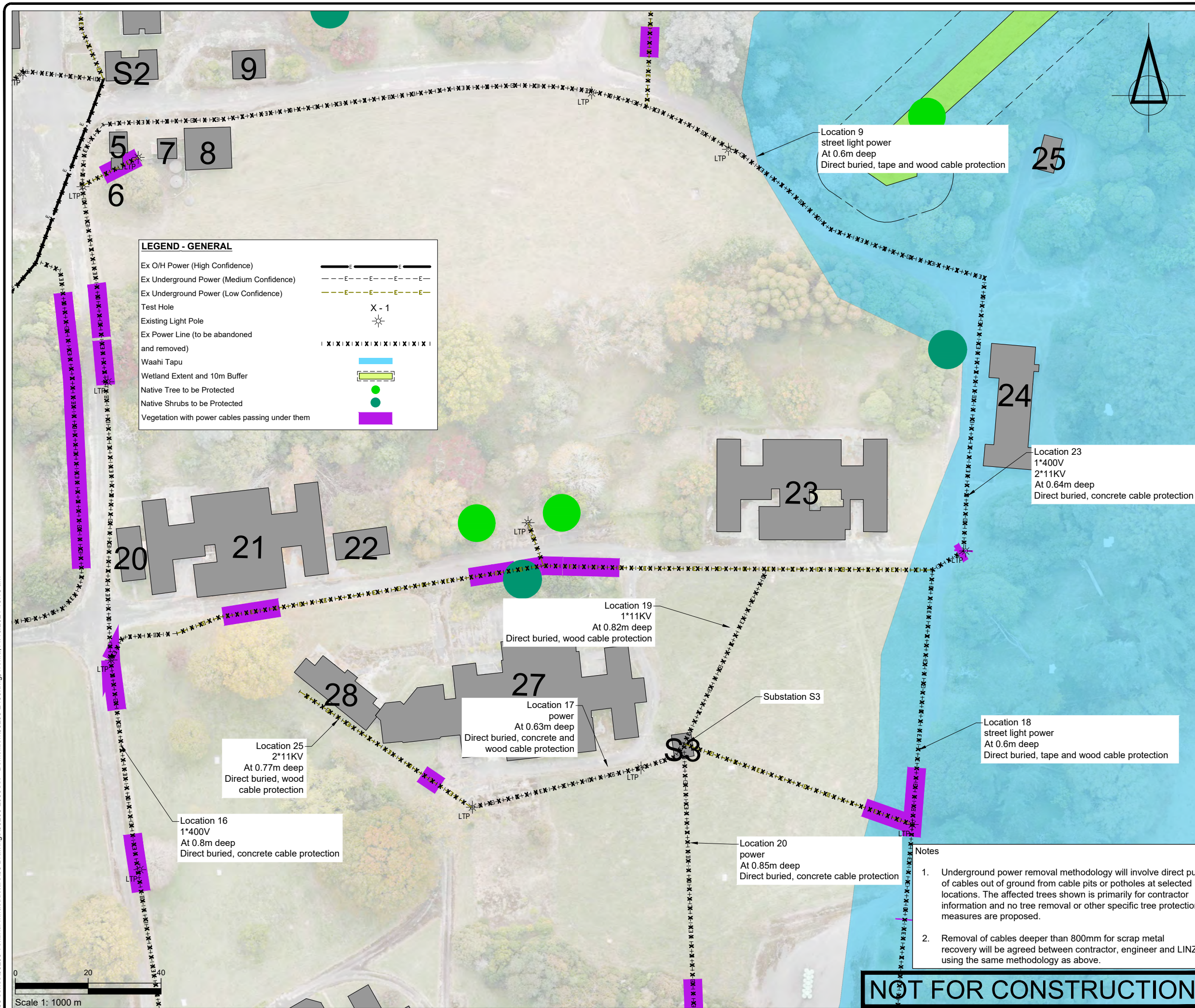
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SCALE	1:1000 (A3)
DRAWING No	REVISION 33205/2405 D

[illegible]

- NOTES
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 6. SL = street light

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

POWER DEMOLITION PLAN
(SHEET 6 OF 9)



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SCALE	1:1000	(A)
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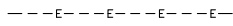


LEGEND - GENERAL

Ex O/H Power (High Confidence)



Ex Underground Power (Medium Confidence)



Ex Underground Power (Low Confidence)



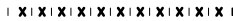
Test Hole



Existing Light Pole



Ex Power Line (to be abandoned and removed)



Waahi Tapu



Wetland Extent and 10m Buffer



Native Tree to be Protected



Native Shrubs to be Protected



Vegetation with power cables passing under them



Notes

- Underground power removal methodology will involve direct pull of cables out of ground from cable pits or potholes at selected locations. The affected trees shown is primarily for contractor information and no tree removal or other specific tree protection measures are proposed.
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D	ADDED CABLE PROTECTION DETAIL			SF	06/11/24

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- SL = street light

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

POWER DEMOLITION PLAN
(SHEET 7 OF 9)



**Fraser
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SCALE 1:1000

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DRAWING No

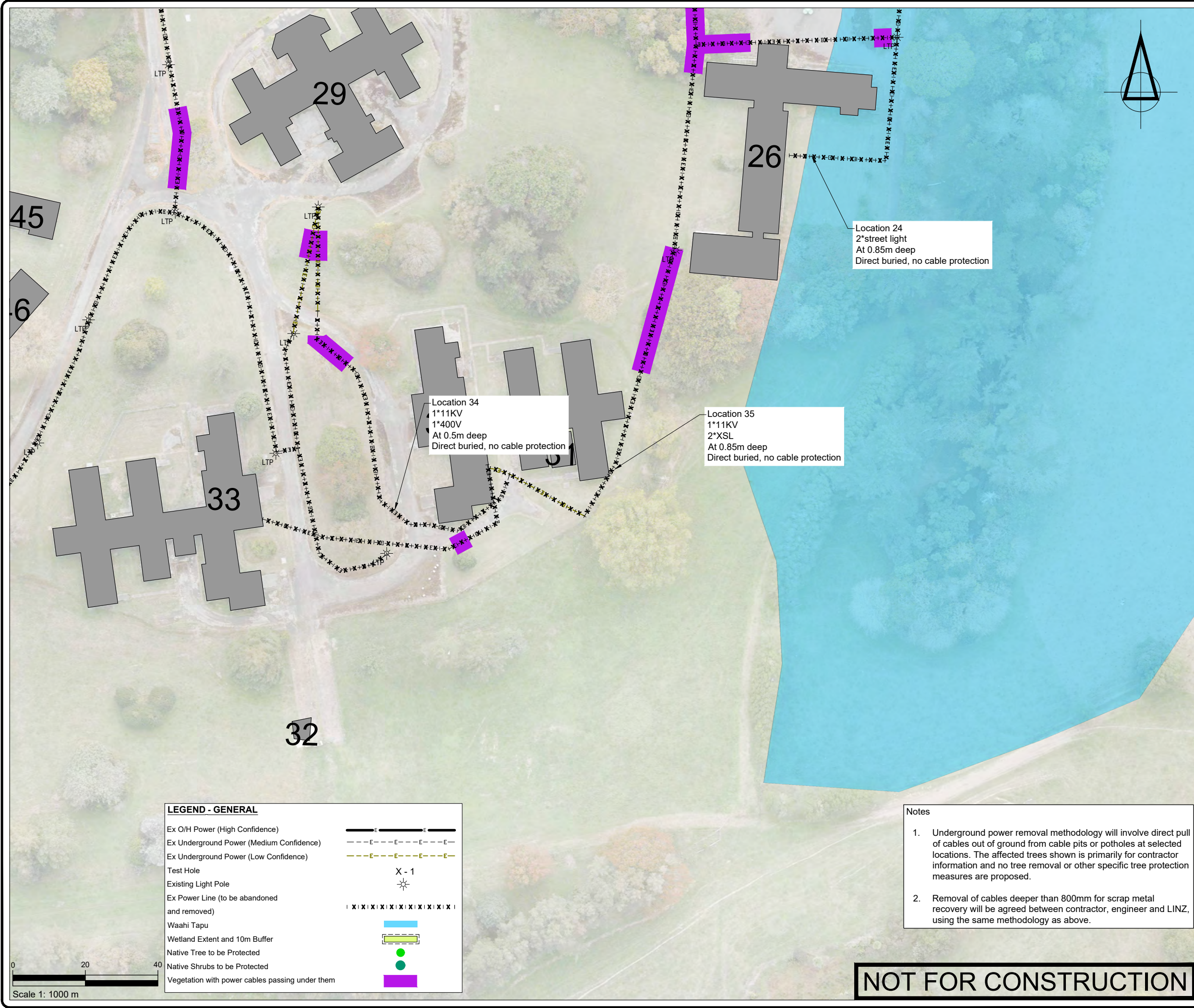
33205/2407

REVISION

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NOT FOR CONSTRUCTION

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LEGEND - GENERAL	
Ex O/H Power (High Confidence)	
Ex Underground Power (Medium Confidence)	
Ex Underground Power (Low Confidence)	
Test Hole	
Existing Light Pole	
Ex Power Line (to be abandoned and removed)	
Waahi Tapu	
Wetland Extent and 10m Buffer	
Native Tree to be Protected	
Native Shrubs to be Protected	
Vegetation with power cables passing under them	

Notes	
1.	Underground power removal methodology will involve direct pull of cables out of ground from cable pits or potholes at selected locations. The affected trees shown is primarily for contractor information and no tree removal or other specific tree protection measures are proposed.
2.	Removal of cables deeper than 800mm for scrap metal recovery will be agreed between contractor, engineer and LINZ, using the same methodology as above.

SURVEYED	BSCL	24.04.23	APPROVED SF 31.05.23	DATE	
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES			CHECKED	DATE
-	ISSUE FOR INFORMATION			SF	12/12/23
A	ADDITIONAL INFO ADDED			SF	04/03/24
B	CHANGE TO SIGNIFICANT AREAS			SF	10/05/24
C	WETLAND / CULTURAL AREA UPDATES			SF	17/09/24
D	ADDED CABLE PROTECTION DETAIL			SF	06/11/24

NOTES	
1.	All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.
2.	Check that any contaminated soil removal works in areas where services demolition is also required have been completed and certified, prior to starting services demolition works.
3.	Existing power layout is based on Civtec field investigations.
4.	All existing above and underground power to be removed, including all poles, boxes and pits.
5.	Power supply to the doctors flat to be maintained live during the demolition work. The contractor is to determine the cable feed location and to maintain it as a live connection.
6.	SL = street light

CLIENT
TOITŪ TE WHENUA - LINZ

PROJECT
TOKANUI HOSPITAL HORIZONTAL INFRASTRUCTURE

TITLE
POWER DEMOLITION PLAN (SHEET 9 OF 9)



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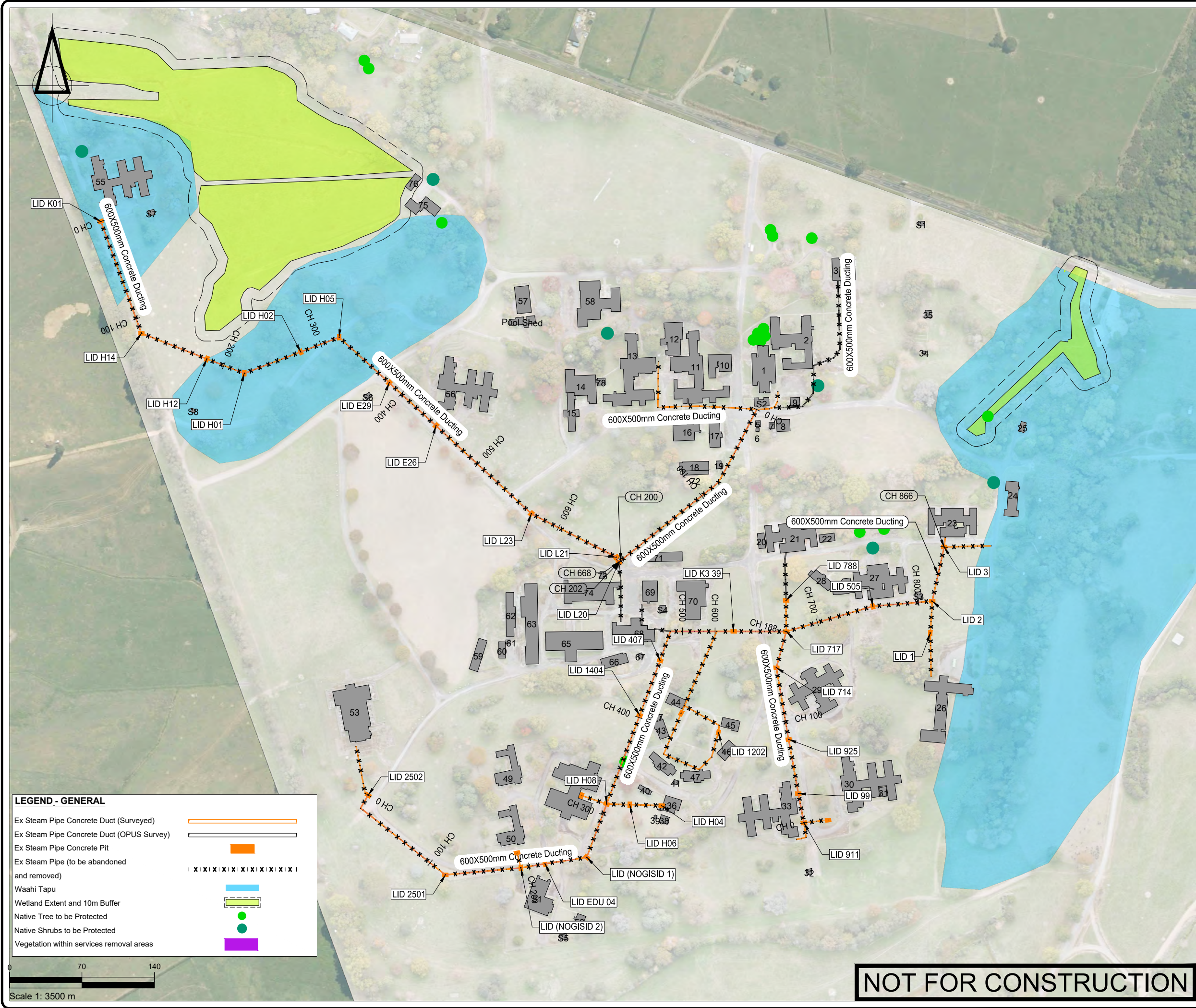
AUCKLAND	09 278 7078
HAWKE'S BAY	06 211 2766
CHRISTCHURCH	03 358 5936
BLenheim	03 428 3292
NELSON	03 222 1132

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STATUS	
FOR RESOURCE CONSENT	
Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.	
SCALE	1:1000 (A3)
DRAWING No	33205/2409
REVISION	D

P:\33 series\33205 Tokanui Infrastructure\03 Drawings\33205-2000Set - Demolition\33205-2500.dwg, swang, 11/10/2021 10:18 am



SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES		CHECKED	DATE	
-	ISSUE FOR INFORMATION		SF	12/12/23	
A	ADDITIONAL INFO ADDED		SF	04/03/24	
B	CHANGE TO SIGNIFICANT AREAS		SF	10/05/24	
C	WETLAND / CULTURAL AREA UPDATES		SF	17/09/24	
D	ADDED AFFECTED VEGETATION		SF	06/11/24	

- NOTES
- All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.
 - Check that any contaminated soil removal works in areas where services demolition is also required have been completed and certified, prior to starting services demolition works.
 - All existing above and underground concrete steam ducts to be removed, including all internal pipework.
 - Backfill excavated cavities and trenches with compacted cleanfill, followed by topsoiling and grassing, except at road crossings that are to remain post-works, which should be backfilled with approved, compacted hardfill.

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

CONCRETE STEAM DUCT
DEMOLITION PLAN LAYOUT

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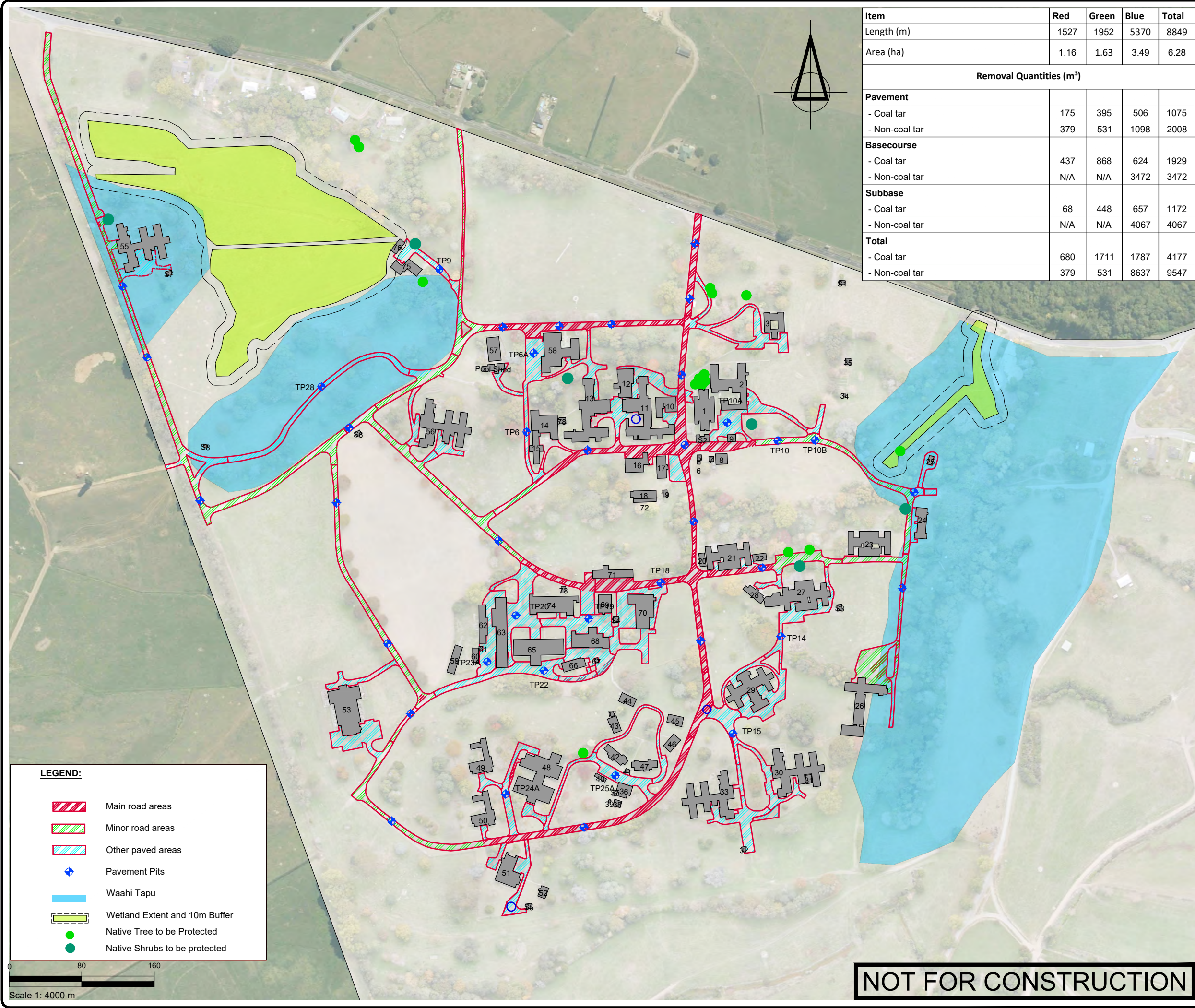
AUCKLAND 09 278 7078
HAWKE'S BAY 06 211 2766
CHRISTCHURCH 03 358 5936
BLENHEIM 03 428 3292
NELSON 03 222 1132

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STATUS	
FOR RESOURCE CONSENT	
Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.	
SCALE	1:3500 (A3)
DRAWING No	33205/2500
REVISION	D

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Item	Red	Green	Blue	Total
Length (m)	1527	1952	5370	8849
Area (ha)	1.16	1.63	3.49	6.28
Removal Quantities (m³)				
Pavement				
- Coal tar	175	395	506	1075
- Non-coal tar	379	531	1098	2008
Basecourse				
- Coal tar	437	868	624	1929
- Non-coal tar	N/A	N/A	3472	3472
Subbase				
- Coal tar	68	448	657	1172
- Non-coal tar	N/A	N/A	4067	4067
Total				
- Coal tar	680	1711	1787	4177
- Non-coal tar	379	531	8637	9547

SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
DESIGNED	DK	31.05.23	31.05.23		
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES			CHECKED	DATE
-	ISSUE FOR INFORMATION			SF	12/12/23
A	ADDITIONAL INFO ADDED			SF	04/03/24
B	MINOR CHANGES			SF	09/04/24
C	CHANGE TO SIGNIFICANT AREAS			SF	10/05/24

- NOTES
- All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.
 - Check that any contaminated soil removal works in areas where services demolition is also required have been completed and certified, prior to starting services demolition works.
 - Refer to drawings 33205/2702 and 2703 for further information on the existing road network.
 - Paved areas and lengths are based on aerial drone survey data.

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

ROADING DEMOLITION PLAN
LAYOUT



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HAWKE'S BAY.....06 211 2766

CHRISTCHURCH.....03 358 5936

BLenheim.....03 428 3292

NELSON.....03 222 1132

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SCALE 1:4000 (A3)

DRAWING No 33205/2700 REVISION C

TOITŪ TE WHENUA – LAND INFORMATION NEW
ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION

33205

COAL TAR INVESTIGATION REPORT

CONTAMINATED ROADING

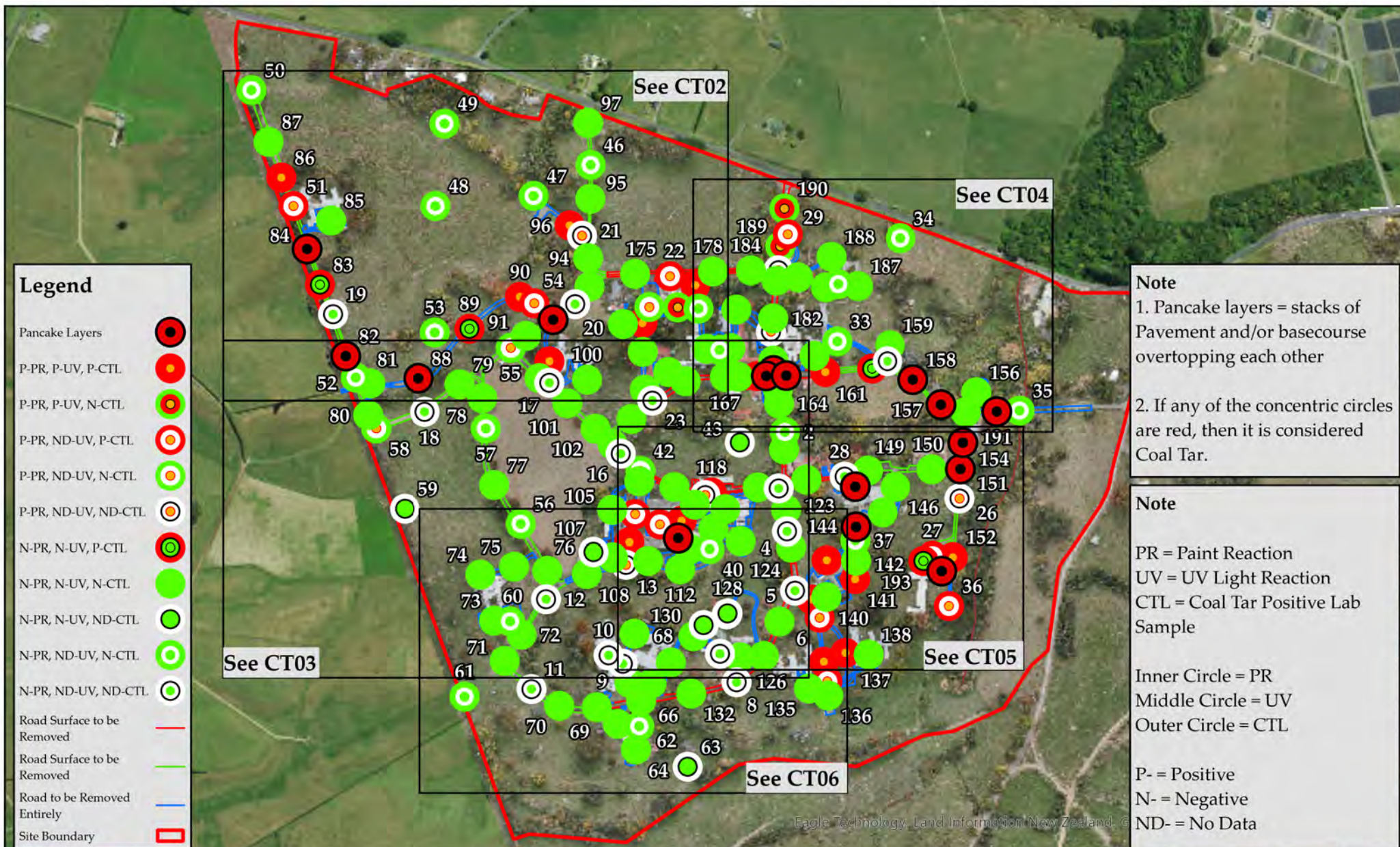
25/09/2024



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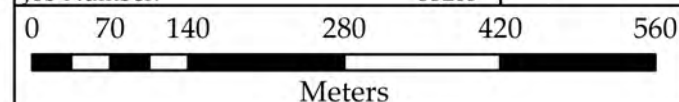
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Drawing	Drawing Title	Revision
33205/CT01	Sample Location Plan - Pavement Overview	A
33205/CT02	Sample Location Plan - Surface	A
33205/CT03	Sample Location Plan - Surface	A
33205/CT04	Sample Location Plan - Surface	A
33205/CT05	Sample Location Plan - Surface	A
33205/CT06	Sample Location Plan - Surface	A
33205/CT07	Sample Location Plan - Basecourse Overview	A
33205/CT08	Sample Location Plan - Basecourse	A
33205/CT09	Sample Location Plan - Basecourse	A
33205/CT10	Sample Location Plan - Basecourse	A
33205/CT11	Sample Location Plan - Basecourse	A
33205/CT12	Sample Location Plan - Basecourse	A
33205/CT13	Sample Location Plan - Subbase Overview	A
33205/CT14	Sample Location Plan - Subbase	A
33205/CT15	Sample Location Plan - Subbase	A
33205/CT16	Sample Location Plan - Subbase	A
33205/CT17	Removal Plan - Surface Overview	A
33205/CT18	Removal Plan - Surface	A
33205/CT19	Removal Plan - Surface	A
33205/CT20	Removal Plan - Surface	A
33205/CT21	Removal Plan - Basecourse Overview	A
33205/CT22	Removal Plan - Basecourse	A
33205/CT23	Removal Plan - Basecourse	A
33205/CT24	Removal Plan - Basecourse	A
33205/CT25	Removal Plan - Subbase Overview	A
33205/CT26	Removal Plan - Subbase	A

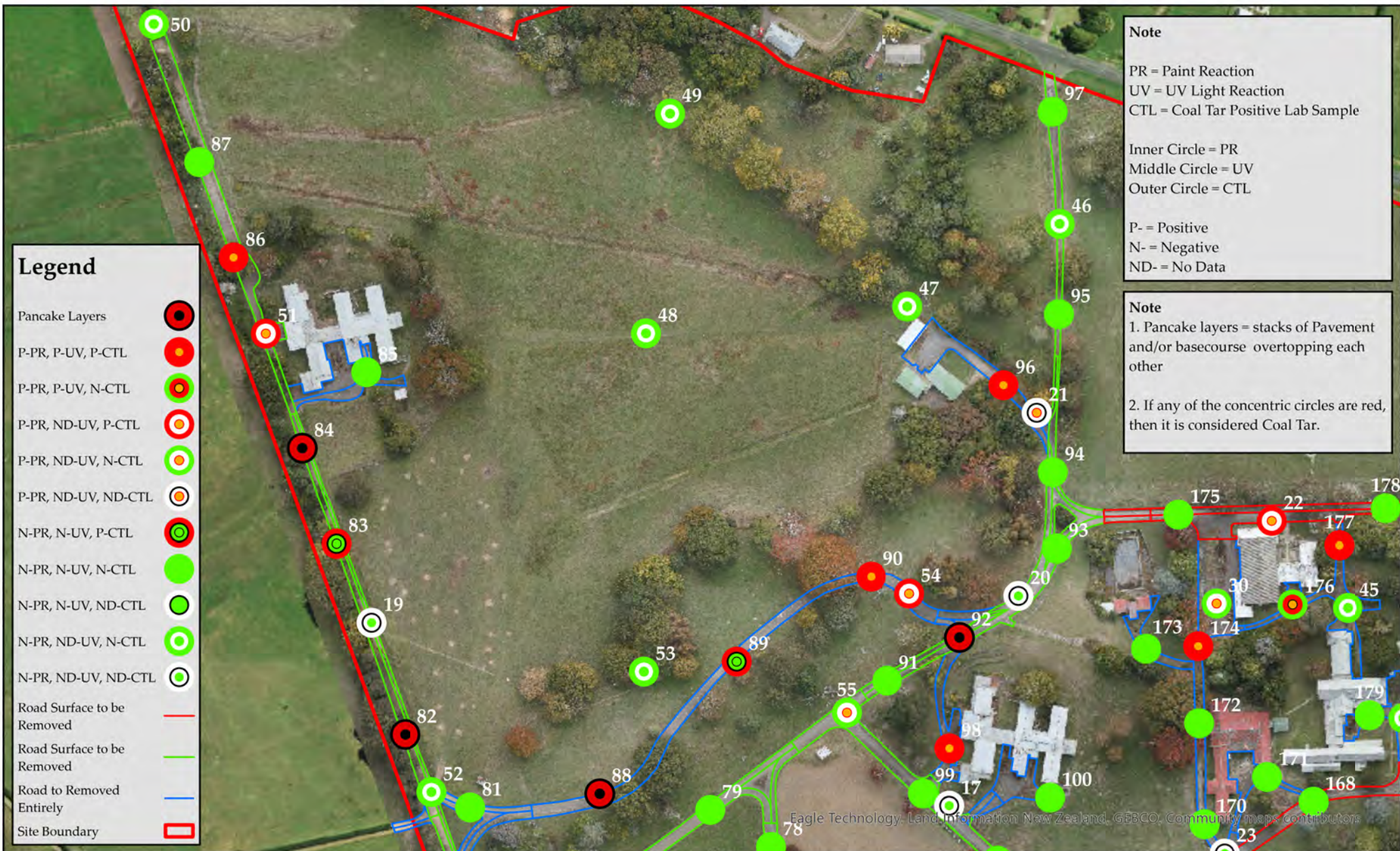


CT01: Coal Tar Sample Location Plan - Pavement Overview

Toitū Te Whenua Land Information New Zealand
 Addendum Detailed Site Investigation - Coal Tar
 Former Tokanui Hospital Demolition and Remediation Project
 Tokanui

Date: 25/09/2024
 Drawing Reference: 33205/CT01
 Drawn by: EB
 Reviewed by: SF
 Job Number: 33205

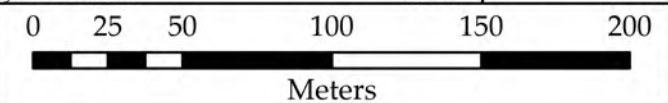


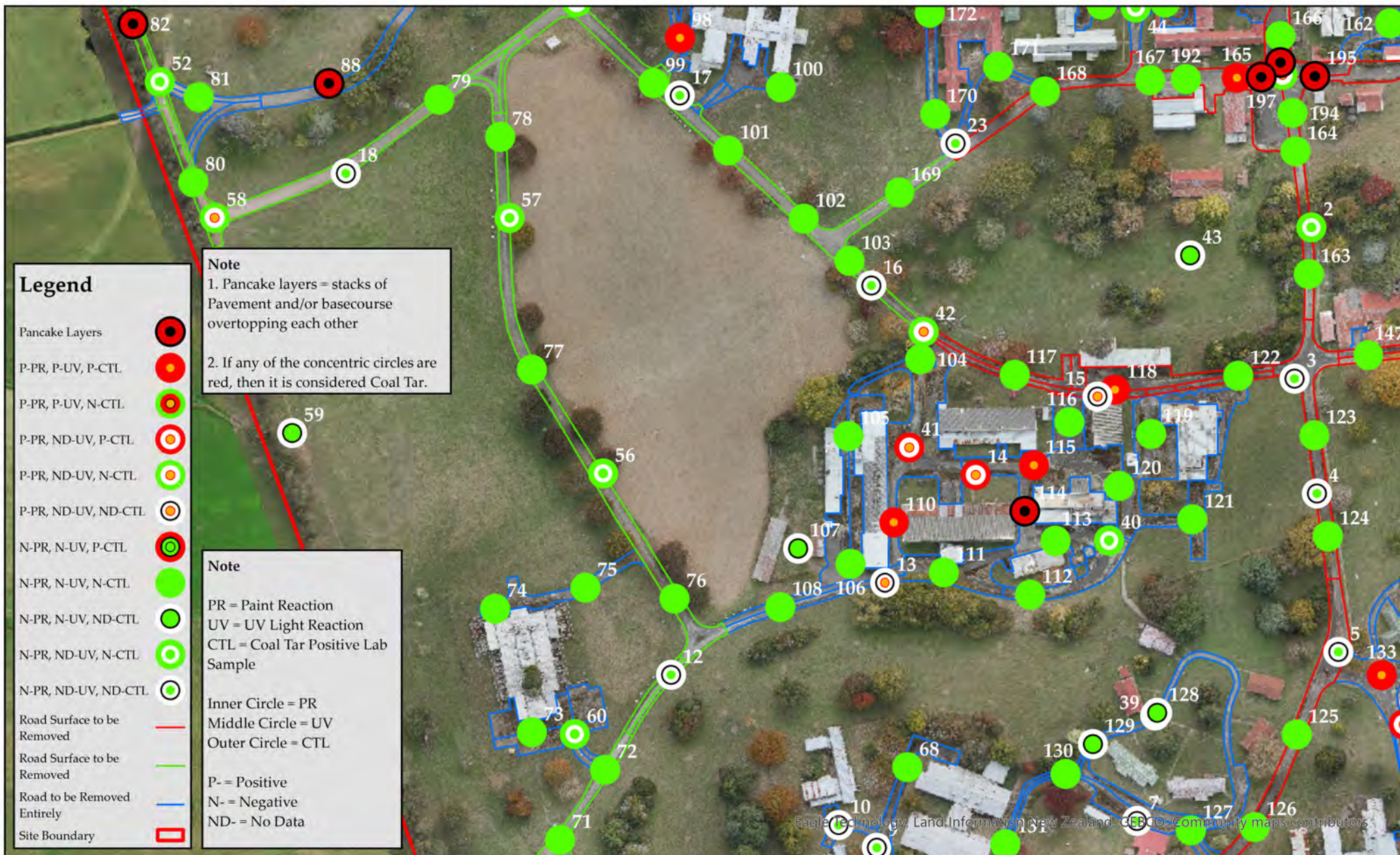


CT02: Coal Tar Sample Location Plan - Surface

Toitū Te Whenua Land Information New Zealand
Addendum Detailed Site Investigation - Coal Tar
Former Tokanui Hospital Demolition and Remediation Project
Tokanui

Date: 25/09/2024
Drawing Reference: 33205/CT02
Drawn by: EB
Reviewed by: SF
Job Number: 33205

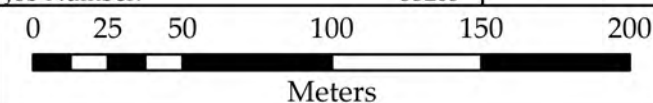


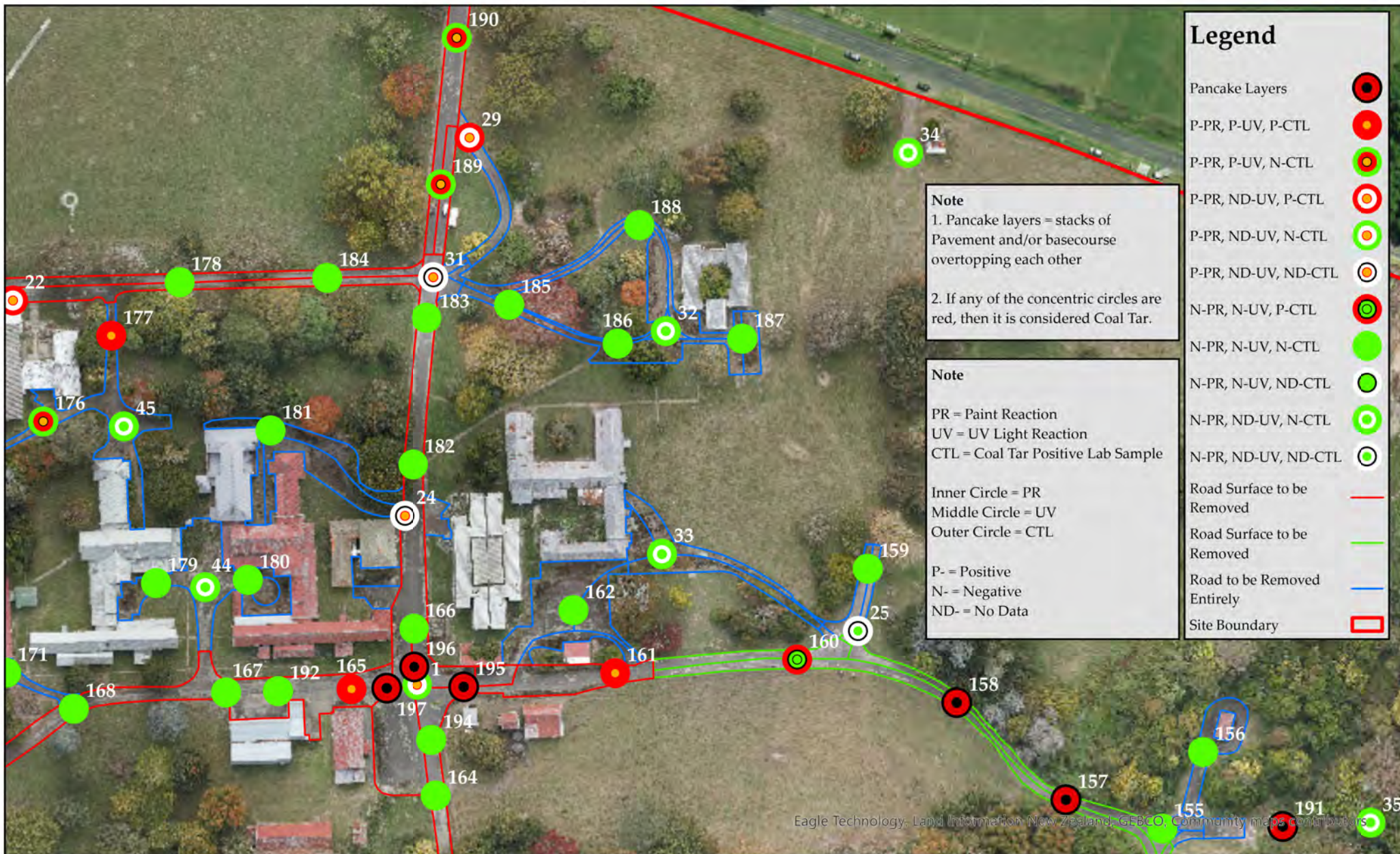


CT03: Coal Tar Sample Location Plan - Surface

Toitū Te Whenua Land Information New Zealand
Addendum Detailed Site Investigation - Coal Tar
Former Tokanui Hospital Demolition and Remediation Project
Tokanui

Date: 25/09/2024
Drawing Reference: 33205/CT03
Drawn by: EB
Reviewed by: SF
Job Number: 33205

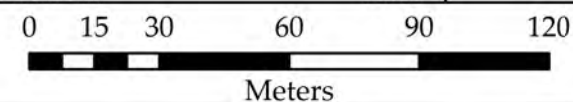




CT04: Coal Tar Sample Location Plan - Surface

Toitū Te Whenua Land Information New Zealand
Addendum Detailed Site Investigation - Coal Tar
Former Tokanui Hospital Demolition and Remediation Project
Tokaui

Date: 25/09/2024
Drawing Reference: 33205/CT04
Drawn by: EB
Reviewed by: SF
Job Number: 33205



Legend

Pancake Layers

P-PR, P-UV, P-CTL

P-PR, P-UV, N-CTL

P-PR, ND-UV, P-CTL

P-PR, ND-UV, N-CTL

P-PR, ND-UV, ND-CTL

N-PR, N-UV, P-CTL

N-PR, N-UV, N-CTL

N-PR, N-UV, ND-CTL

N-PR, ND-UV, N-CTL

N-PR, ND-UV, ND-CTL

Road Surface to be
Removed

Road Surface to be
Removed

Road to be Removed
Entirely

Site Boundary

Note

1. Pancake layers = stacks of
Pavement and/or basecourse
overtopping each other

2. If any of the concentric circles are
red, then it is considered Coal Tar.

Note

PR = Paint Reaction

UV = UV Light Reaction

CTL = Coal Tar Positive Lab Sample

Inner Circle = PR

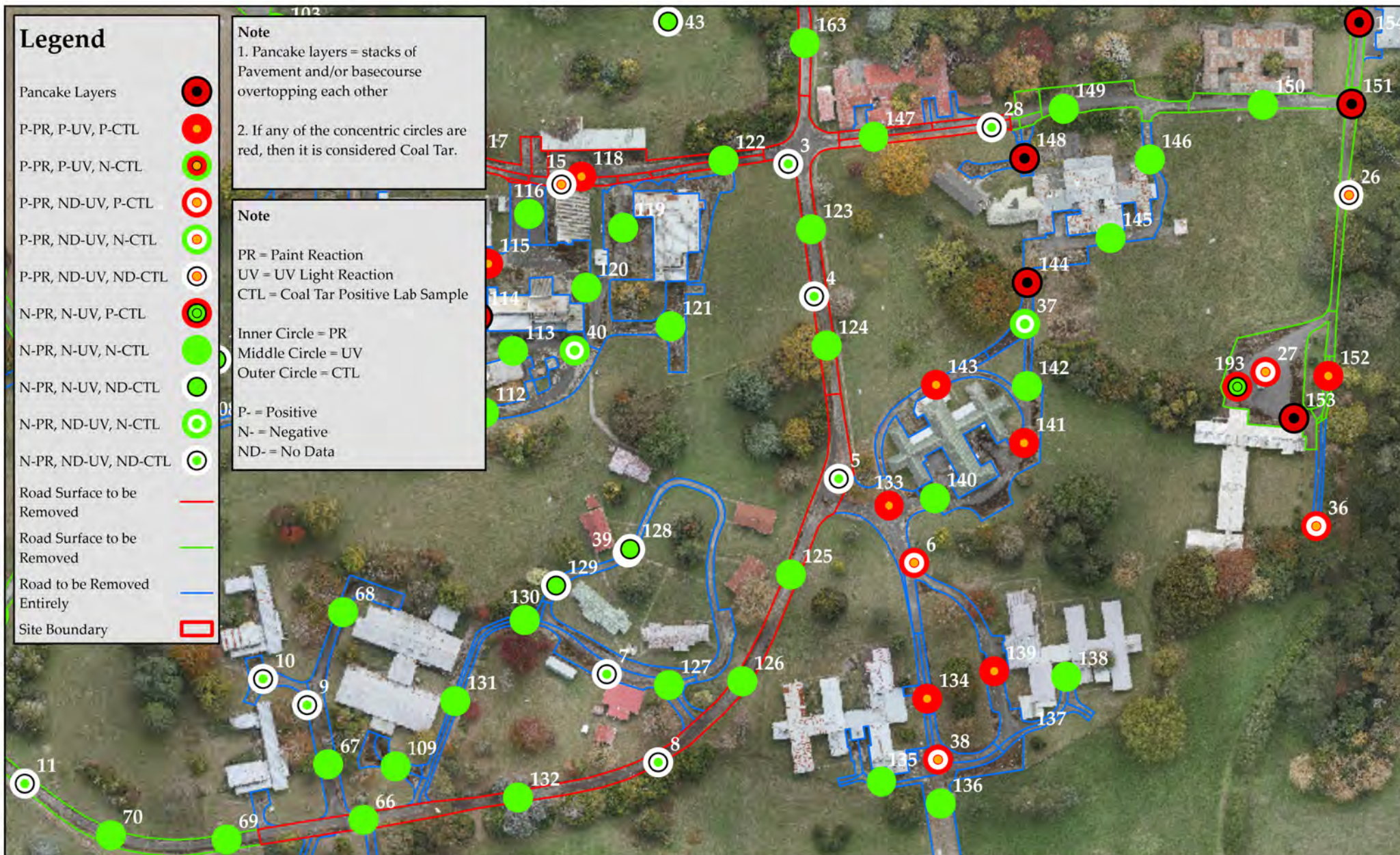
Middle Circle = UV

Outer Circle = CTL

P- = Positive

N- = Negative

ND- = No Data



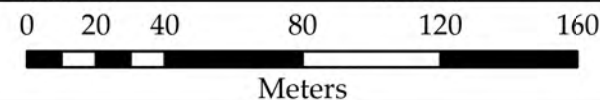
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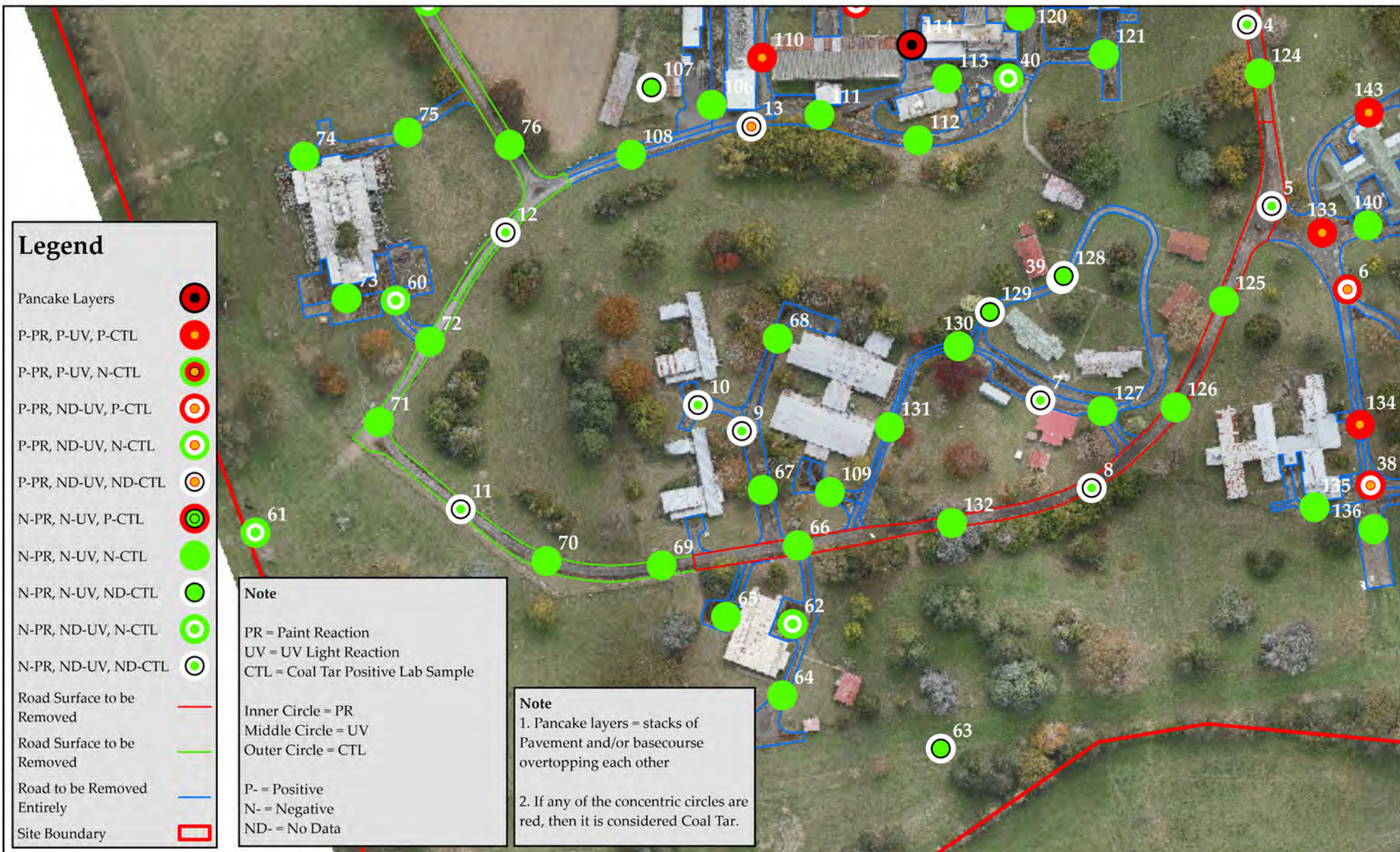
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CT05: Coal Tar Sample Location Plan - Surface

Toitū Te Whenua Land Information New Zealand
Addendum Detailed Site Investigation - Coal Tar
Former Tokanui Hospital Demolition and Remediation Project
Tokanui

Date: 25/09/2024
Drawing Reference: 33205/CT05
Drawn by: EB
Reviewed by: SF
Job Number: 33205

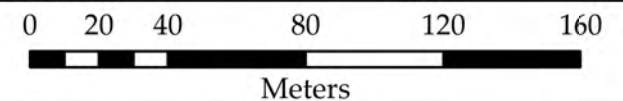


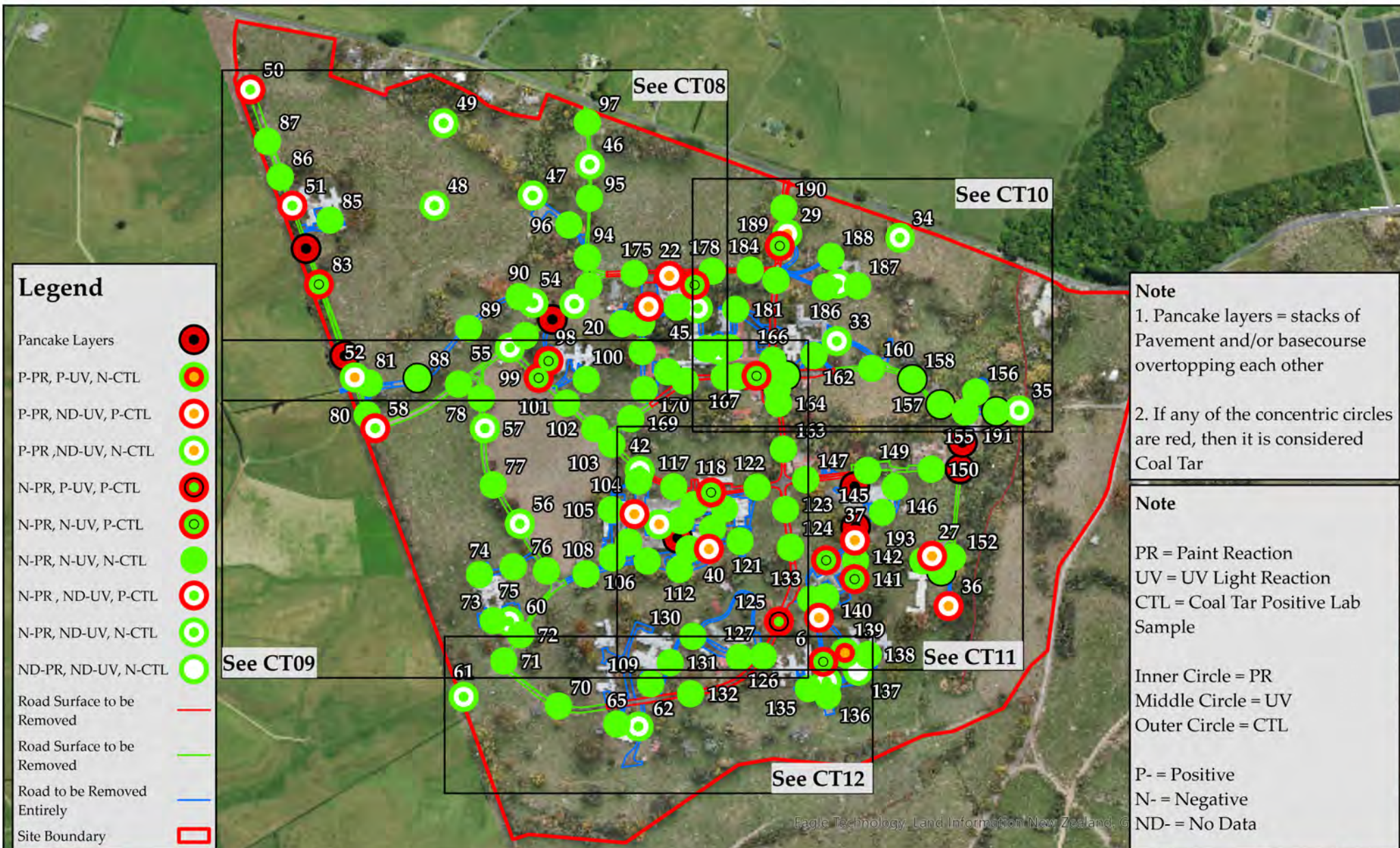


CT06: Coal Tar Sample Location Plan - Surface

Toitū Te Whenua Land Information New Zealand
 Addendum Detailed Site Investigation - Coal Tar
 Former Tokanui Hospital Demolition and Remediation Project
 Tokanui

Date: 25/09/2024
 Drawing Reference: 33205/CT06
 Drawn by: EB
 Reviewed by: SF
 Job Number: 33205

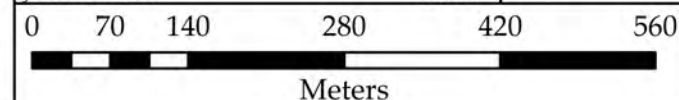




CT07: Coal Tar Sample Location Plan - Basecourse Overview

Toitū Te Whenua Land Information New Zealand
 Addendum Detailed Site Investigation - Coal Tar
 Former Tokanui Hospital Demolition and Remediation Project
 Tokanui

Date: 25/09/2024
 Drawing Reference: 33205/CT07
 Drawn by: EB
 Reviewed by: SF
 Job Number: 33205

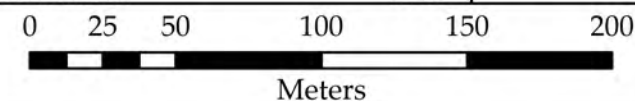




CT08: Coal Tar Sample Location Plan - Basecourse

Toitū Te Whenua Land Information New Zealand
 Addendum Detailed Site Investigation - Coal Tar
 Former Tokanui Hospital Demolition and Remediation Project
 Tokanui

Date: 25/09/2024
 Drawing Reference: 33205/CT08
 Drawn by: EB
 Reviewed by: SF
 Job Number: 33205

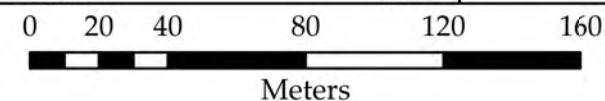


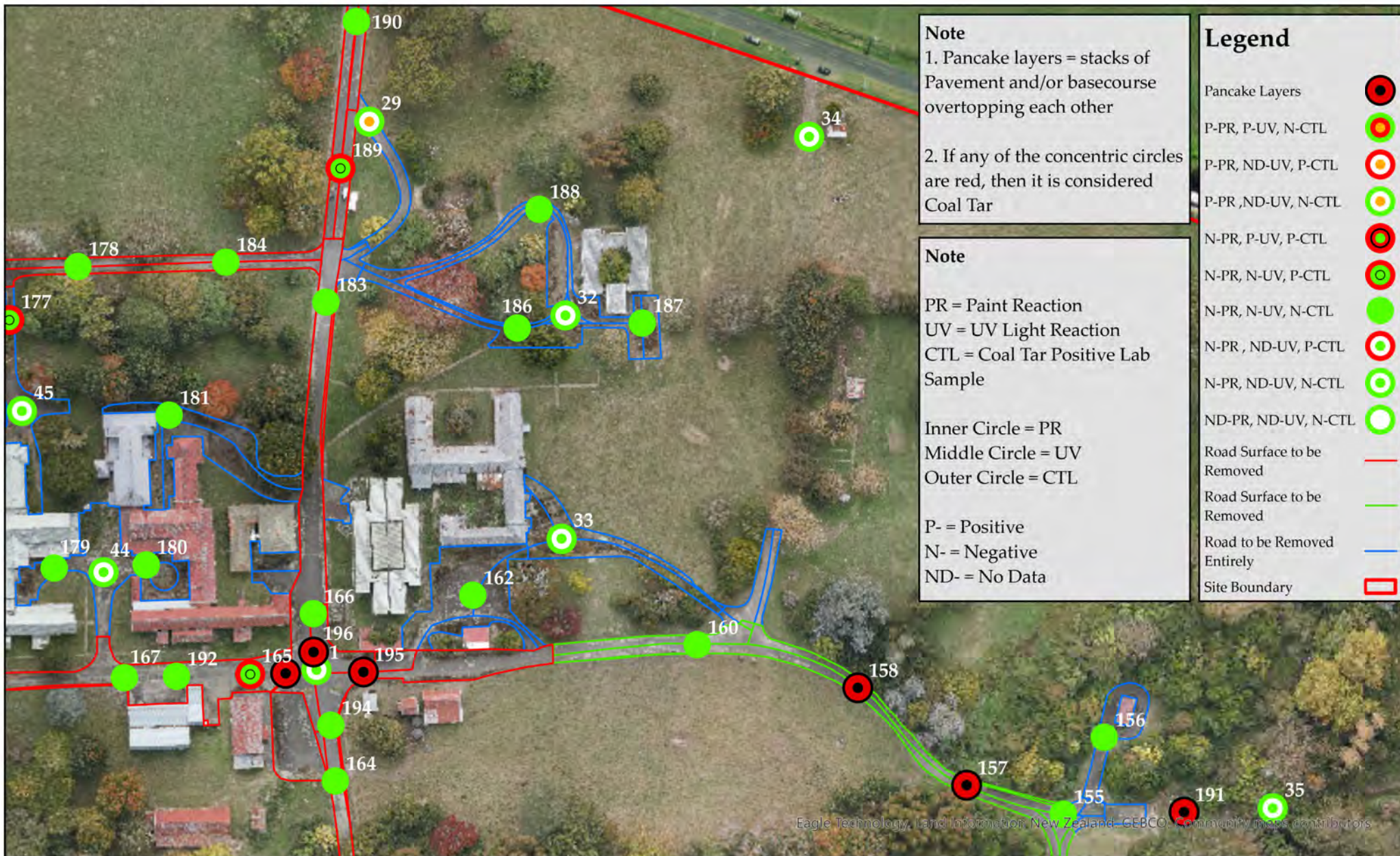


CT09: Coal Tar Sample Location Plan - Basecourse

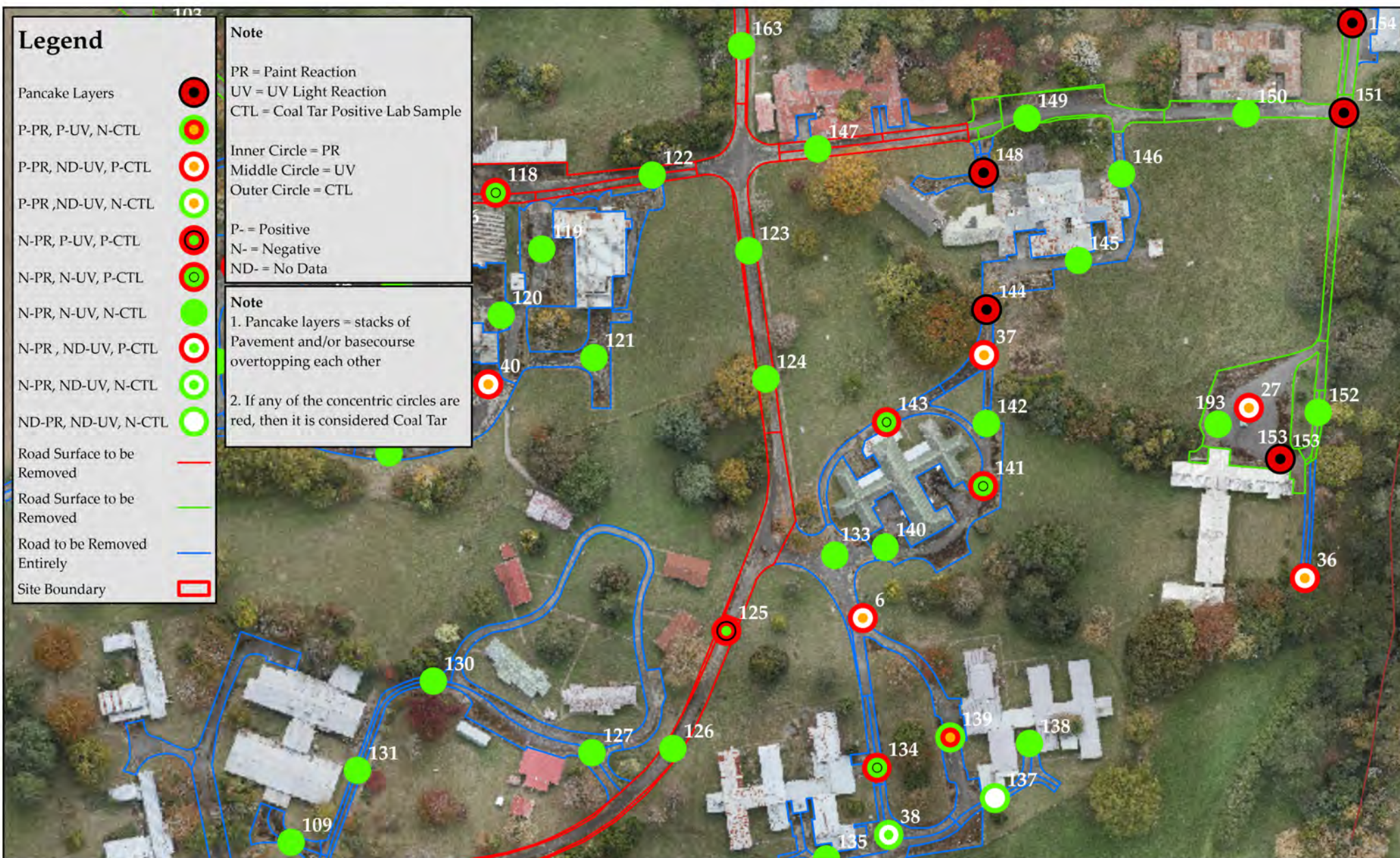
Toitū Te Whenua Land Information New Zealand
Addendum Detailed Site Investigation - Coal Tar
Former Tokanui Hospital Demolition and Remediation Project
Tokaui

Date: 25/09/2024
Drawing Reference: 33205/CT09
Drawn by: EB
Reviewed by: SF
Job Number: 33205





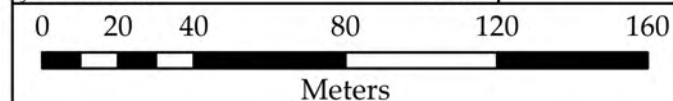
	CT10: Coal Tar Sample Location Plan - Basecourse	Date: 25/09/2024 Drawing Reference: 33205/CT10 Drawn by: EB Reviewed by: SF Job Number: 33205	
	Toitū Te Whenua Land Information New Zealand Addendum Detailed Site Investigation - Coal Tar Former Tokanui Hospital Demolition and Remediation Project Tokanui		



CT11: Coal Tar Sample Location Plan - Basecourse

Toitū Te Whenua Land Information New Zealand
Addendum Detailed Site Investigation - Coal Tar
Former Tokanui Hospital Demolition and Remediation Project
Tokanui

Date: 25/09/2024
Drawing Reference: 33205/CT11
Drawn by: EB
Reviewed by: SF
Job Number: 33205

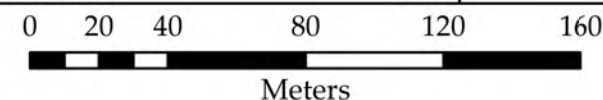


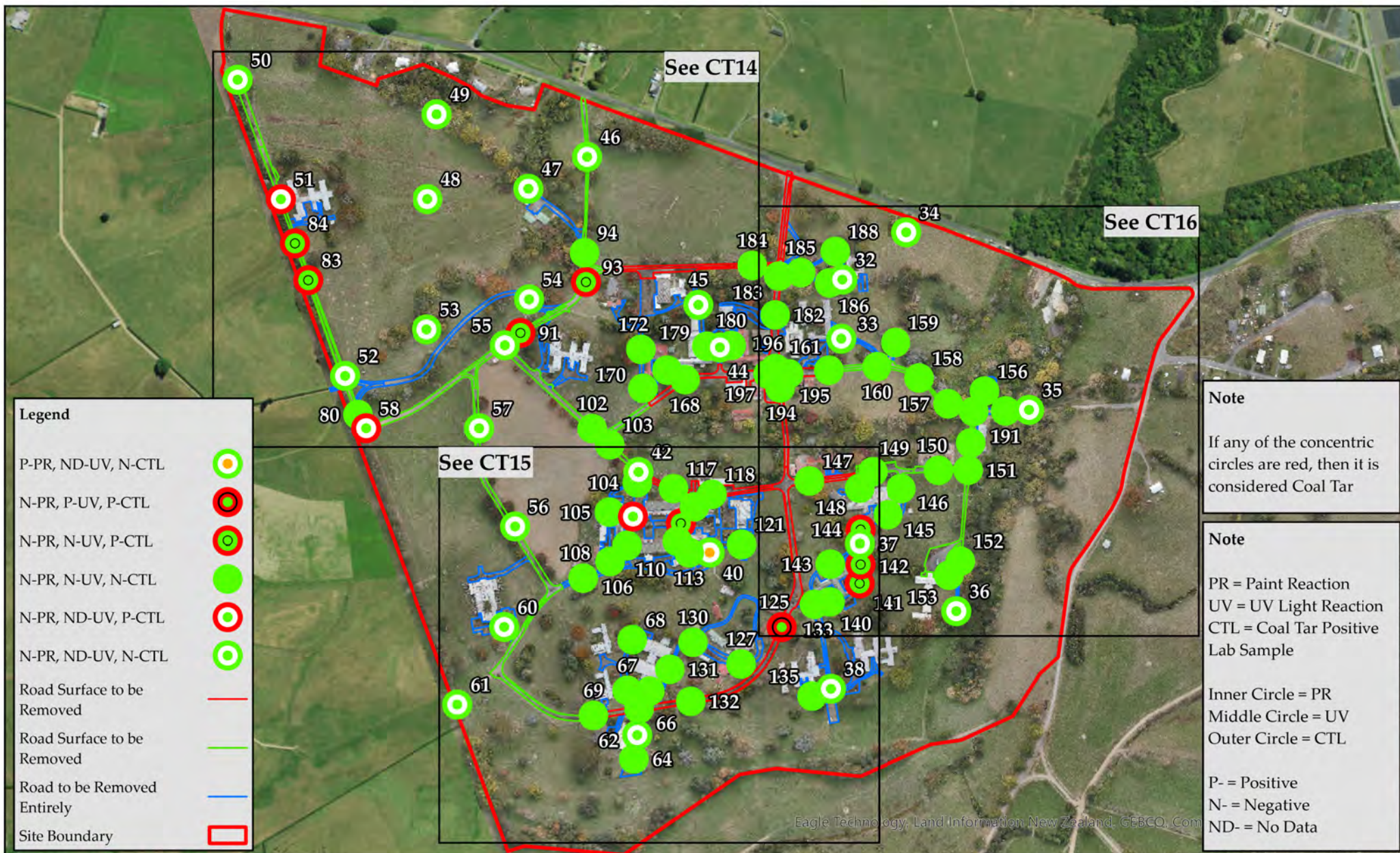


CT12: Coal Tar Sample Location Plan - Basecourse

Toitū Te Whenua Land Information New Zealand
 Addendum Detailed Site Investigation - Coal Tar
 Former Tokanui Hospital Demolition and Remediation Project
 Tokanui

Date: 25/09/2024
 Drawing Reference: 33205/CT12
 Drawn by: EB
 Reviewed by: SF
 Job Number: 33205

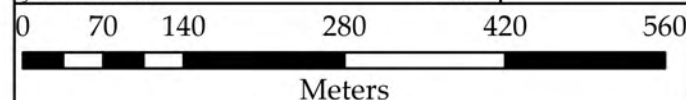




CT13: Coal Tar Sample Location Plan - Subbase Overview

Toitū Te Whenua Land Information New Zealand
Addendum Detailed Site Investigation - Coal Tar
Former Tokanui Hospital Demolition and Remediation Project
Tokanui

Date: 25/09/2024
Drawing Reference: 33205/CT13
Drawn by: EB
Reviewed by: SF
Job Number: 33205



Note

PR = Paint Reaction
UV = UV Light Reaction
CTL = Coal Tar Positive Lab Sample

Inner Circle = PR
Middle Circle = UV
Outer Circle = CTL

P- = Positive
N- = Negative
ND- = No Data

Legend

P-PR, ND-UV, N-CTL



N-PR, P-UV, P-CTL



N-PR, N-UV, P-CTL



N-PR, N-UV, N-CTL



N-PR, ND-UV, P-CTL



N-PR, ND-UV, N-CTL



Road Surface to be
Removed



Road Surface to be
Removed



Road to be Removed
Entirely

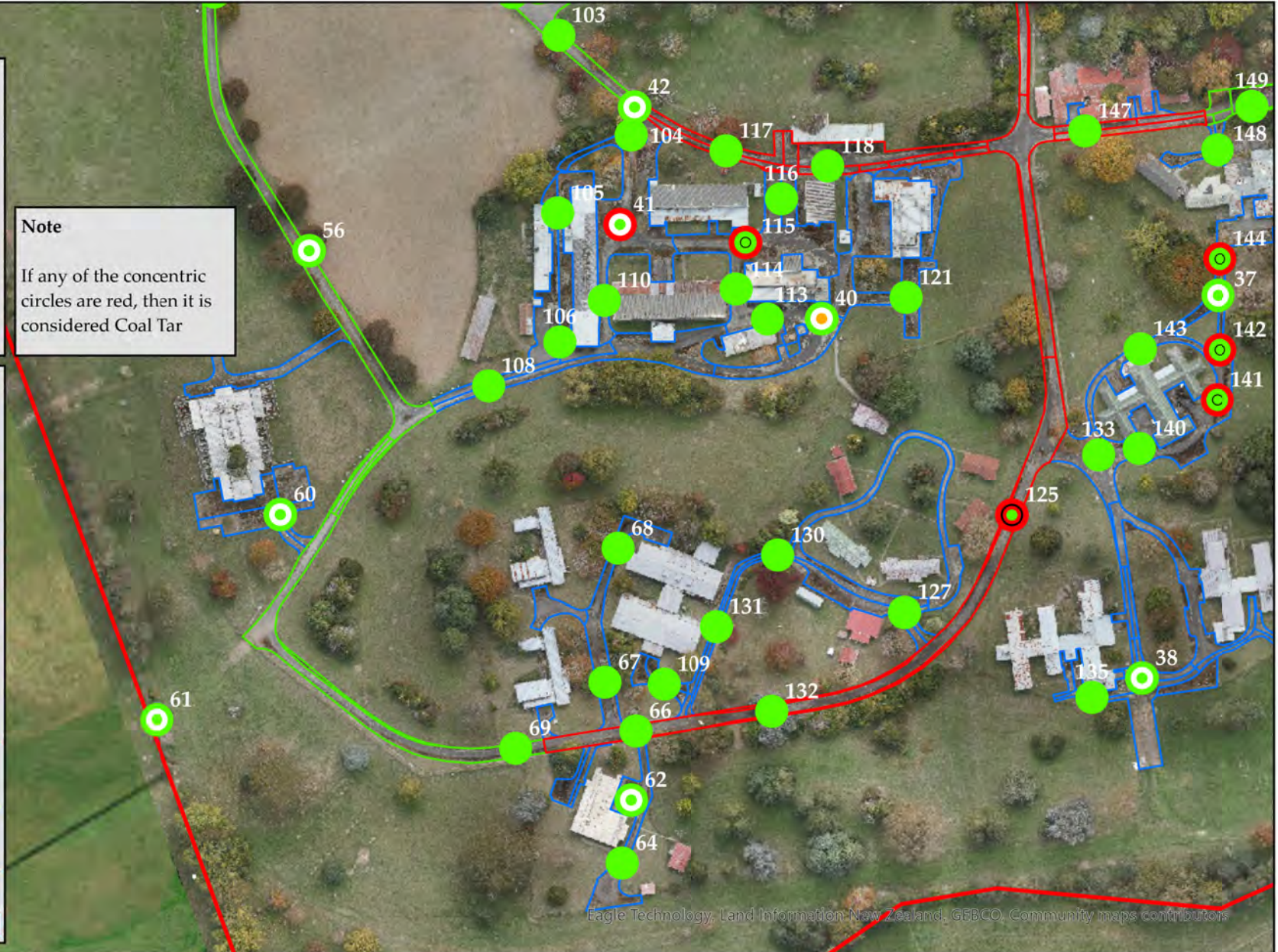


Site Boundary



Note

If any of the concentric
circles are red, then it is
considered Coal Tar



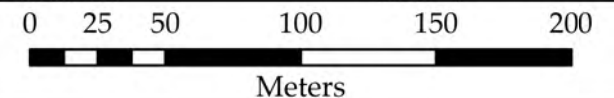
**Fraser
Thomas**

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CT14: Coal Tar Sample Location Plan - Subbase

Toitū Te Whenua Land Information New Zealand
Addendum Detailed Site Investigation - Coal Tar
Former Tokanui Hospital Demolition and Remediation Project
Tokaui

Date: 25/09/2024
Drawing Reference: 33205/CT14
Drawn by: EB
Reviewed by: SF
Job Number: 33205



Note

PR = Paint Reaction
UV = UV Light Reaction
CTL = Coal Tar Positive Lab Sample

Inner Circle = PR
Middle Circle = UV
Outer Circle = CTL

P- = Positive
N- = Negative
ND- = No Data

Legend

P-PR, ND-UV, N-CTL



N-PR, P-UV, P-CTL



N-PR, N-UV, P-CTL



N-PR, N-UV, N-CTL



N-PR, ND-UV, P-CTL



N-PR, ND-UV, N-CTL



Road Surface to be
Removed



Road Surface to be
Removed



Road to be Removed
Entirely

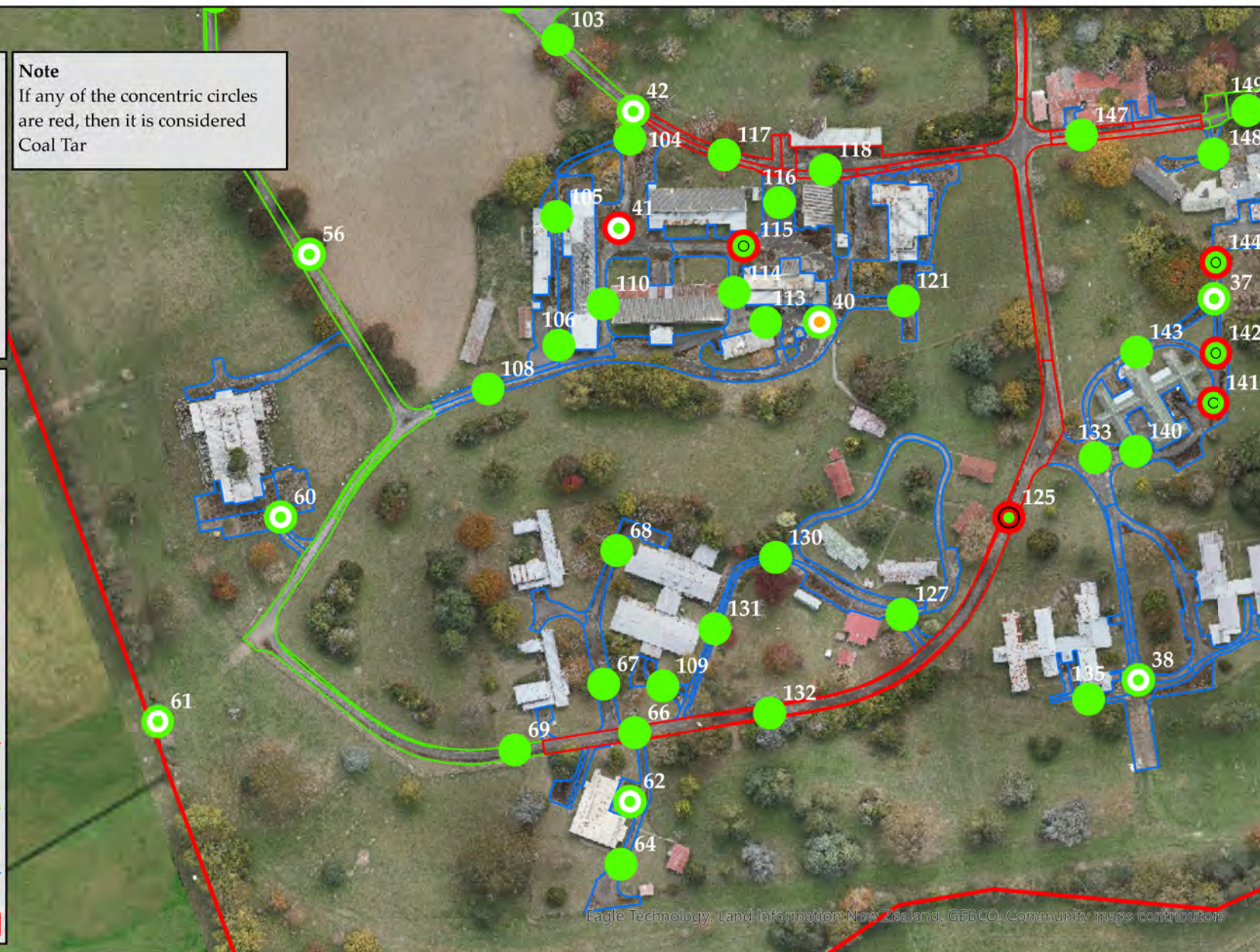


Site Boundary



Note

If any of the concentric circles
are red, then it is considered
Coal Tar



Eagle Technology, Land Information New Zealand, GEBCO, Community maps contributors



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CT15: Coal Tar Sample Location Plan - Subbase

Toitū Te Whenua Land Information New Zealand
Addendum Detailed Site Investigation - Coal Tar
Former Tokanui Hospital Demolition and Remediation Project
Tokaui

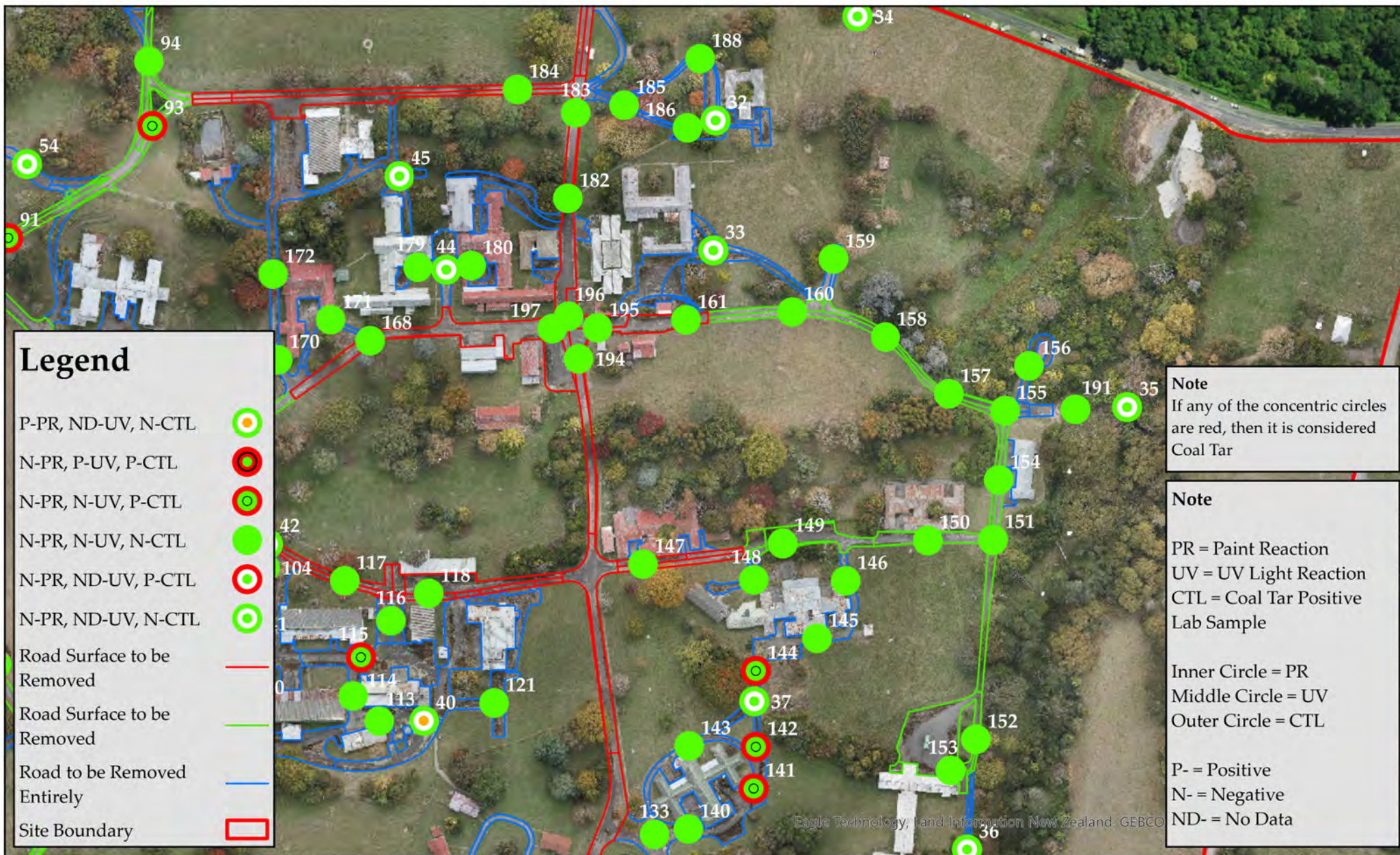
Date: 25/09/2024
Drawing Reference: 33205/CT15
Drawn by: EB
Reviewed by: SF
Job Number: 33205



0 25 50 100 150 200



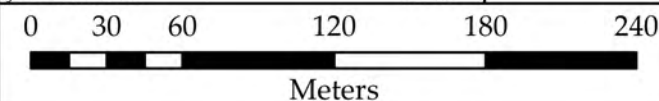
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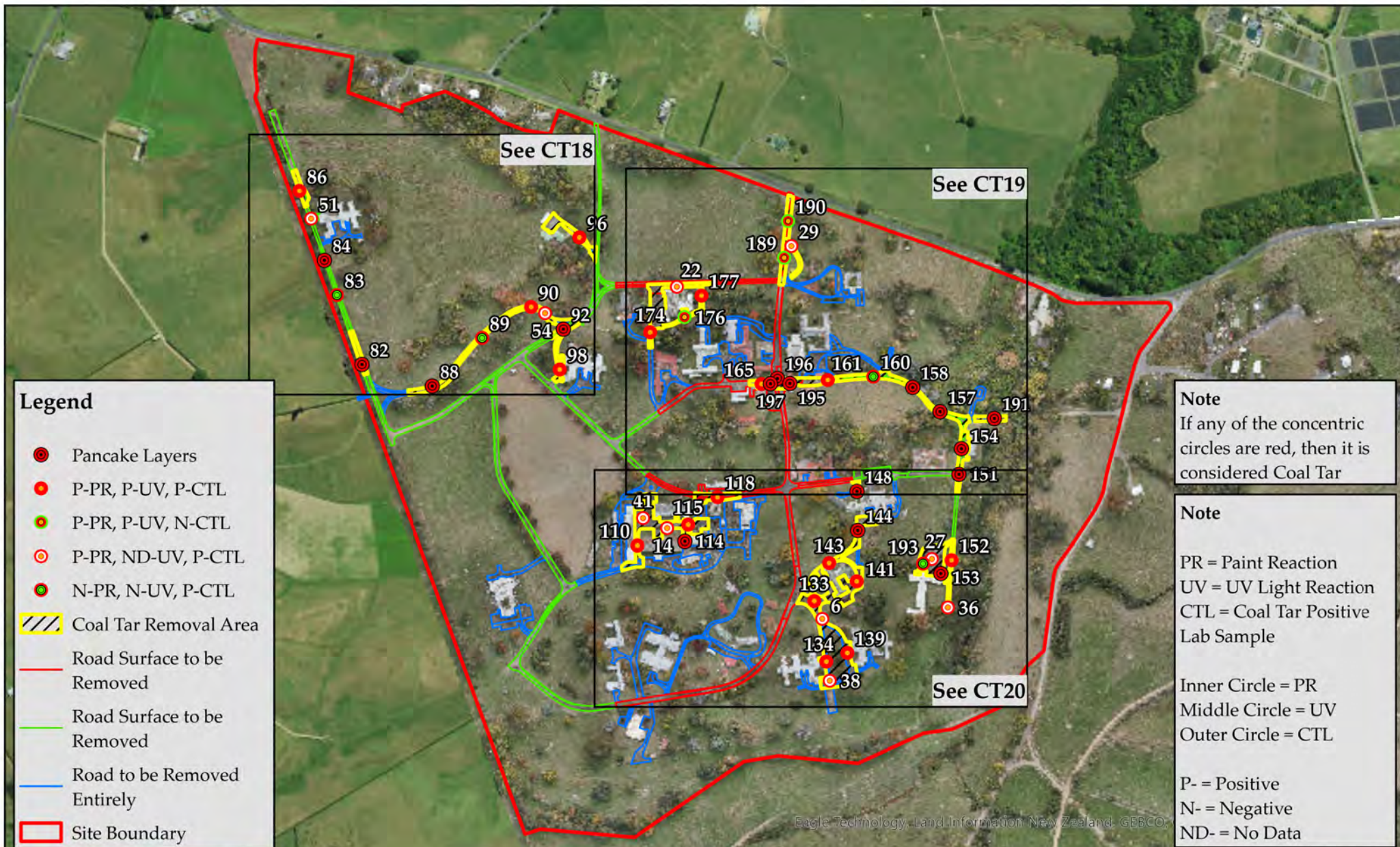


CT16: Coal Tar Sample Location Plan - Subbase

Toitū Te Whenua Land Information New Zealand
Addendum Detailed Site Investigation - Coal Tar
Former Tokanui Hospital Demolition and Remediation Project
Tokaui

Date: 25/09/2024
Drawing Reference: 33205/CT16
Drawn by: EB
Reviewed by: SF
Job Number: 33205

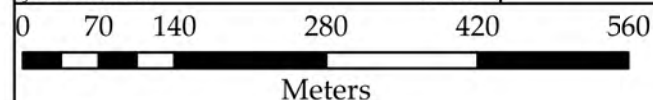


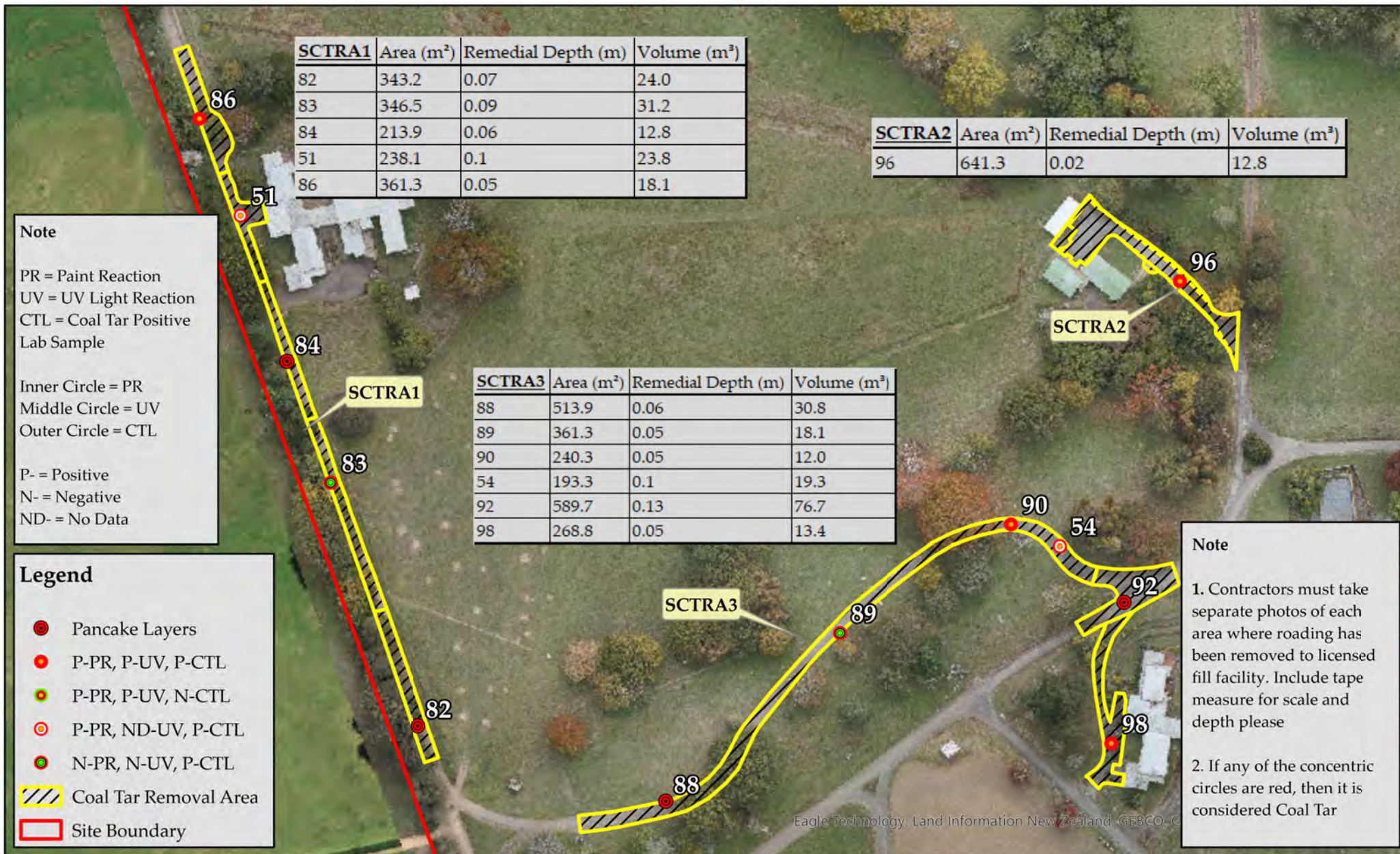


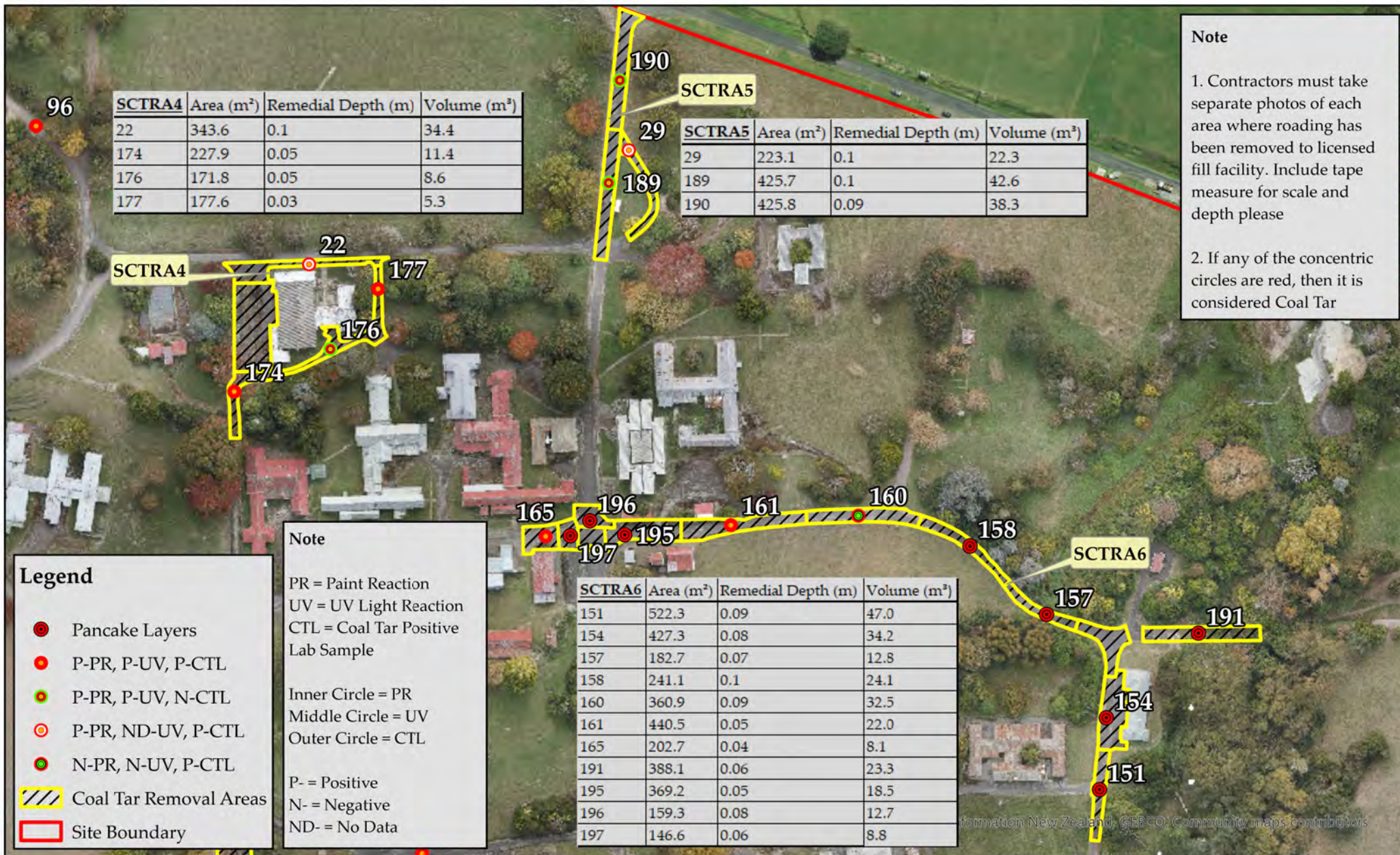
CT17: Coal Tar Removal Plan - Surface Overview

Toitū Te Whenua Land Information New Zealand
Addendum Detailed Site Investigation - Coal Tar
Former Tokanui Hospital Demolition and Remediation Project
Tokaui

Date: 25/09/2024
Drawing Reference: 33205/CT17
Drawn by: EB
Reviewed by: SF
Job Number: 33205







SCTRA7	Area (m ²)	Remedial Depth (m)	Volume (m ³)
14	529.9	0.1	53.0
41	979.8	0.05	49.0
110	476.5	0.03	14.3
114	174.2	0.06	10.5
115	658.7	0.05	32.9
118	565.8	0.02	11.3

SCTRA9	Area (m ²)	Remedial Depth (m)	Volume (m ³)
27	643.6	0.1	64.4
36	227.6	0.05	11.4
152	214.0	0.05	10.7
153	410.2	0.05	20.5
193	294.0	0.05	14.7

Note

PR = Paint Reaction
 UV = UV Light Reaction
 CTL = Coal Tar Positive
 Lab Sample

Inner Circle = PR
 Middle Circle = UV
 Outer Circle = CTL

P- = Positive
 N- = Negative
 ND- = No Data

Legend

- Pancake Layers
- P-PR, P-UV, P-CTL
- P-PR, P-UV, N-CTL
- P-PR, ND-UV, P-CTL
- N-PR, N-UV, P-CTL
- XXXX Coal Tar Removal Areas
- Site Boundary

SCTRA8	Area (m ²)	Remedial Depth (m)	Volume (m ³)
6	406.2	0.1	40.6
38	446.8	0.05	22.3
133	563.2	0.04	22.5
134	199.0	0.04	8.0
139	365.9	0.04	14.6
141	461.0	0.04	18.4
143	253.8	0.04	10.2
144	233.2	0.07	16.3
148	234.8	0.02	4.7

Note

- Contractors must take separate photos of each area where roading has been removed to licensed fill facility. Include tape measure for scale and depth please
- If any of the concentric circles are red, then it is considered Coal Tar



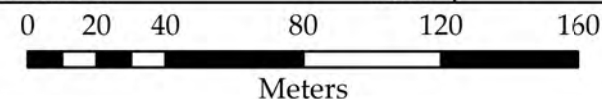
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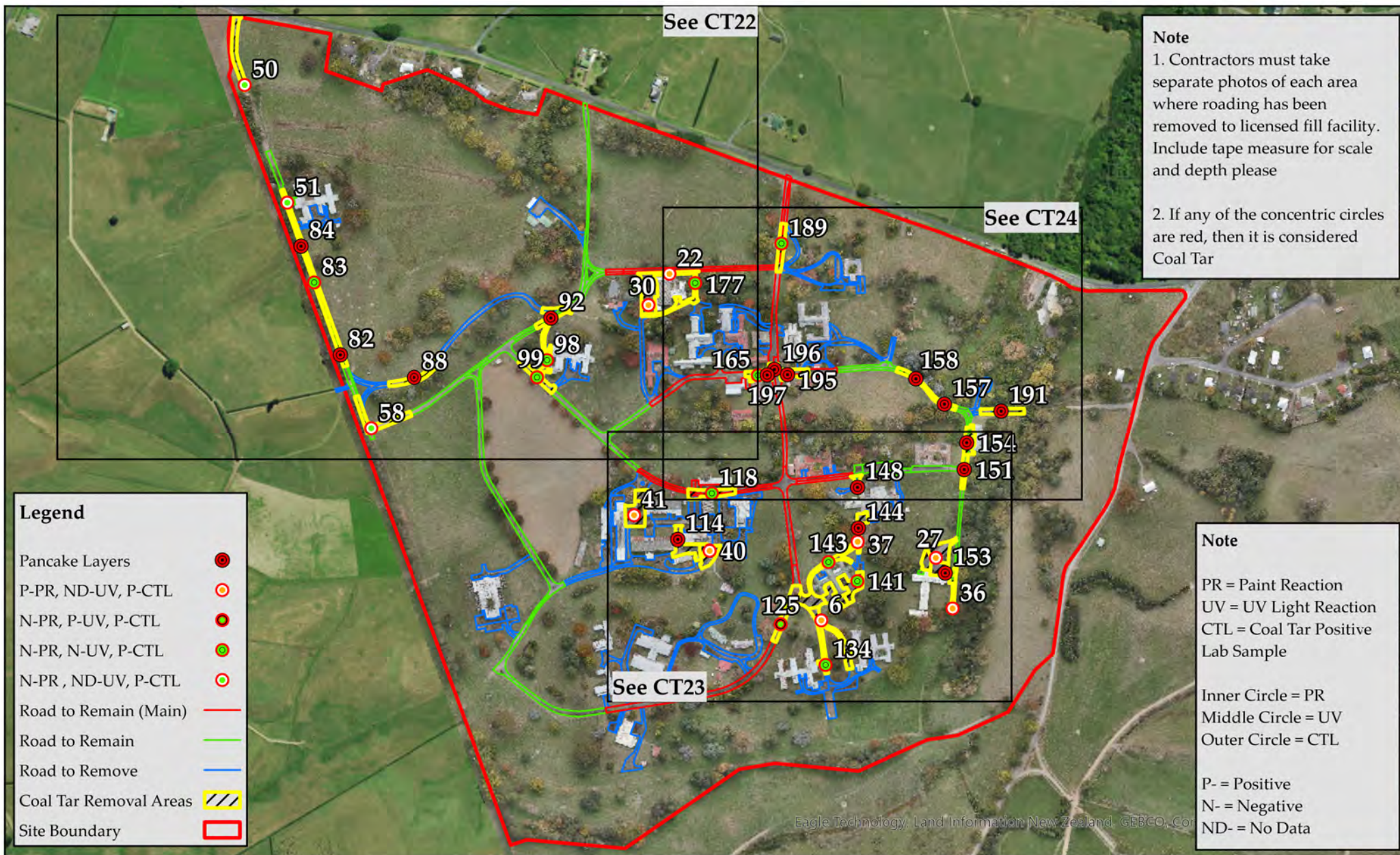
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CT20: Coal Tar Removal Plan - Surface

Toitū Te Whenua Land Information New Zealand
 Addendum Detailed Site Investigation - Coal Tar
 Former Tokanui Hospital Demolition and Remediation Project
 Tokanui

Date: 25/09/2024
 Drawing Reference: 33205/CT20
 Drawn by: EB
 Reviewed by: SF
 Job Number: 33205





Over 50 Years Fraser Thomas ENGINEERS • RESOURCE MANAGERS • SURVEYORS	CT21: Coal Tar Removal Plan - Basecourse Overview		Date: 25/09/2024	N 
	Toitū Te Whenua Land Information New Zealand Addendum Detailed Site Investigation - Coal Tar Former Tokanui Hospital Demolition and Remediation Project Tōkanui		Drawing Reference: 33205/CT21 Drawn by: EB Reviewed by: SF Job Number: 33205	
			055110220330440  Meters	

BCTRA4	Area (m ²)	Remedial Depth (m)	Volume (m ³)
40	522.1	0.1	52.2
41	758.1	0.05	37.9
114*	-	-	-
118	656.3	0.06	39.4

* - Removed as part of pavement removal

Note

PR = Paint Reaction
UV = UV Light Reaction
CTL = Coal Tar Positive
Lab Sample

Inner Circle = PR
Middle Circle = UV
Outer Circle = CTL

P- = Positive
N- = Negative
ND- = No Data

Legend

Pancake Layers



P-PR, ND-UV, P-CTL



N-PR, P-UV, P-CTL



N-PR, N-UV, P-CTL



N-PR, ND-UV, P-CTL



Coal Tar Removal Areas



Site Boundary

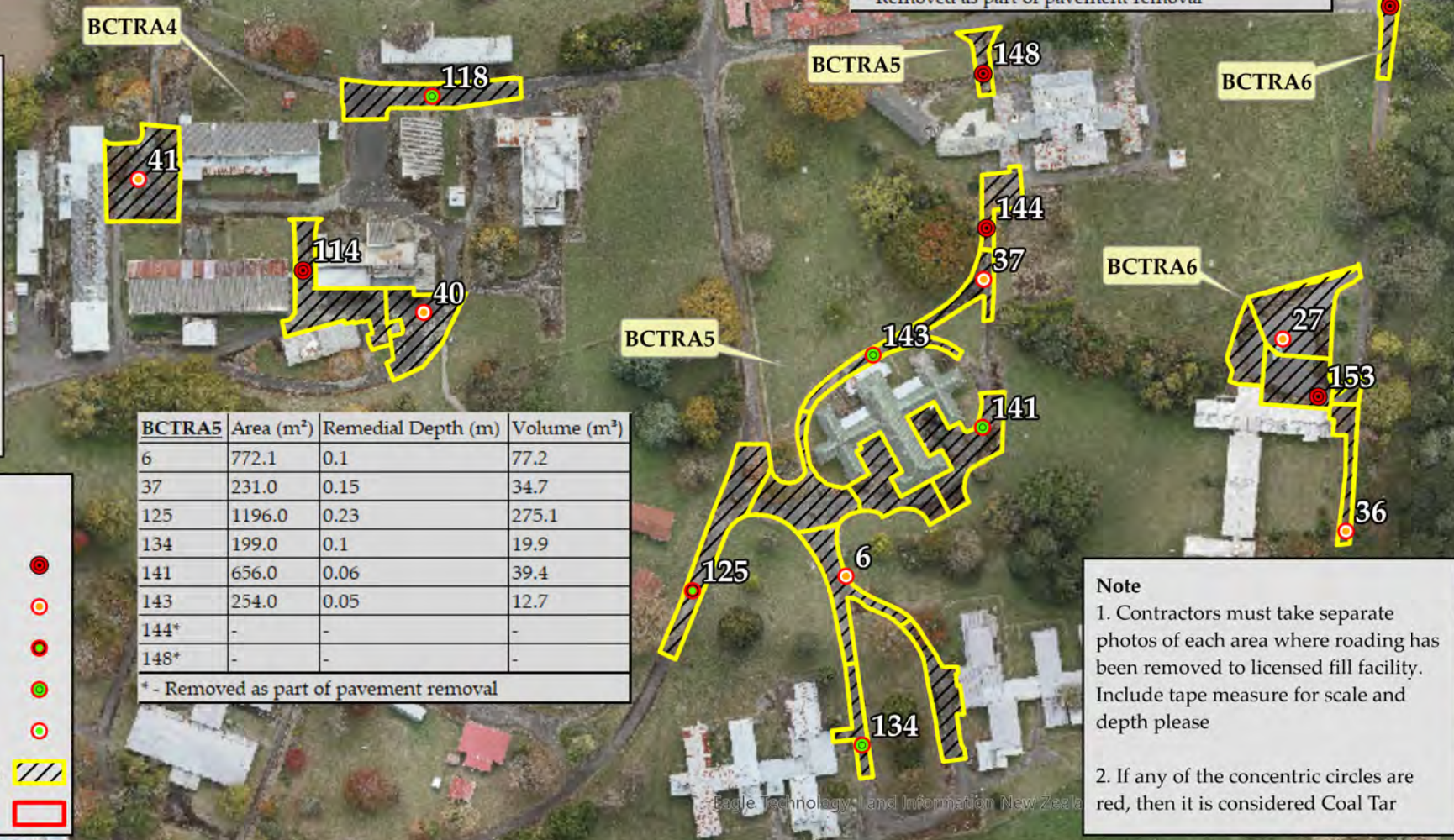


BCTRA5	Area (m ²)	Remedial Depth (m)	Volume (m ³)
6	772.1	0.1	77.2
37	231.0	0.15	34.7
125	1196.0	0.23	275.1
134	199.0	0.1	19.9
141	656.0	0.06	39.4
143	254.0	0.05	12.7
144*	-	-	-
148*	-	-	-

* - Removed as part of pavement removal

BCTRA6	Area (m ²)	Remedial Depth (m)	Volume (m ³)
27	935.1	0.1	93.5
36	301.4	0.1	30.1
151*	-	-	-
153	409.8	0.13	53.3
154*	-	-	-

* - Removed as part of pavement removal



Note

- Contractors must take separate photos of each area where roading has been removed to licensed fill facility. Include tape measure for scale and depth please
- If any of the concentric circles are red, then it is considered Coal Tar



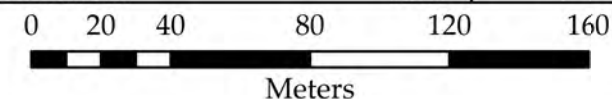
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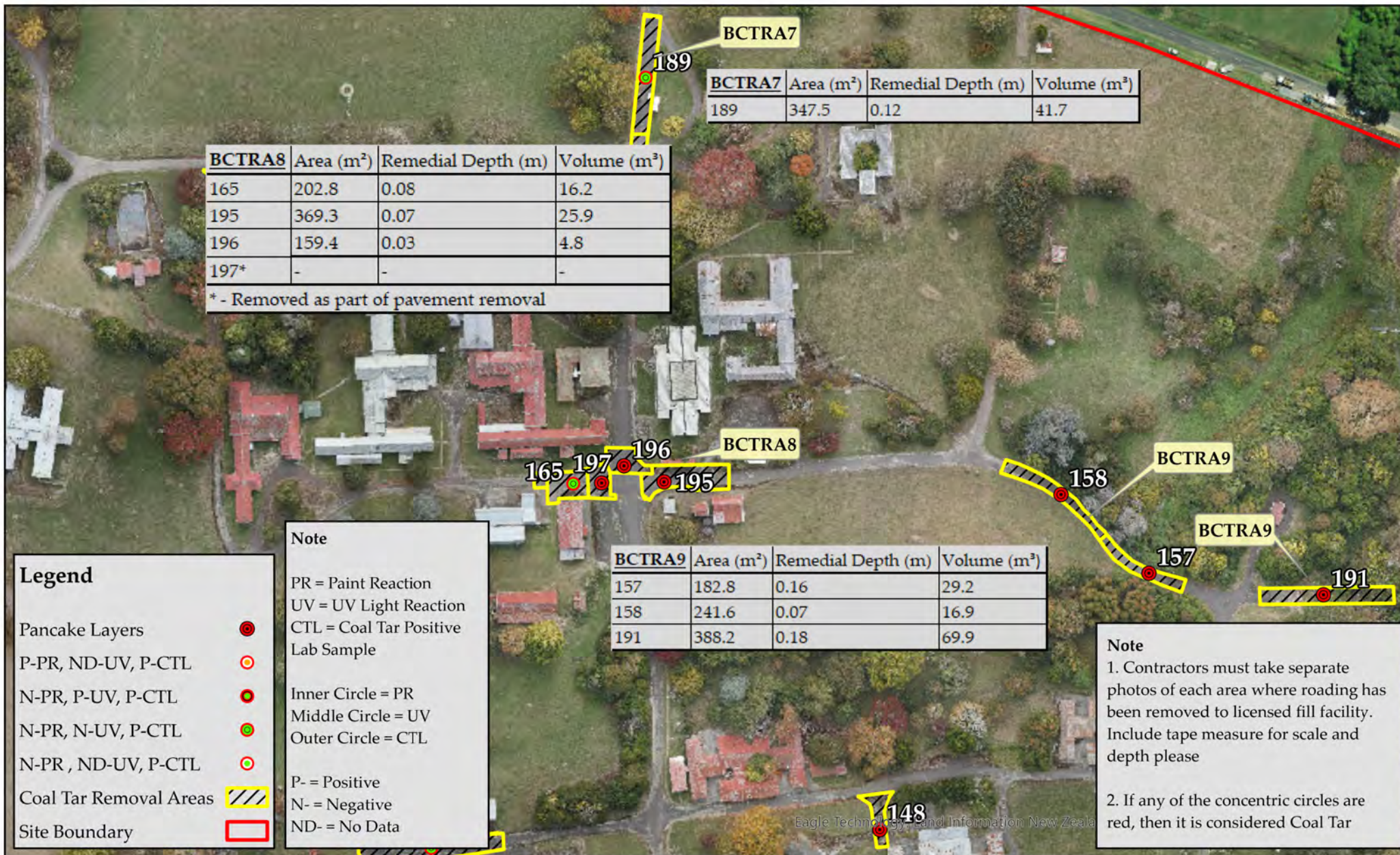
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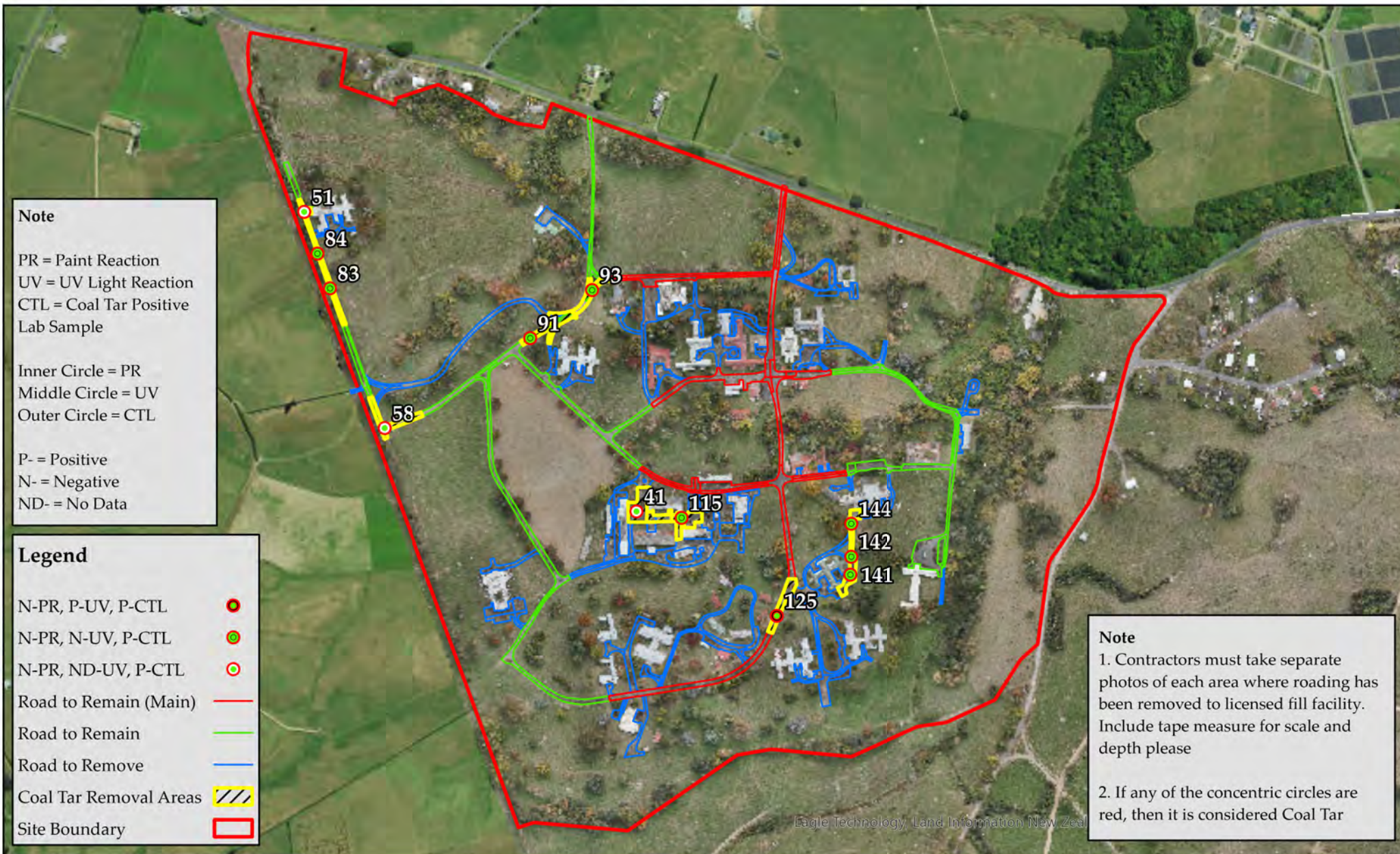
CT23: Coal Tar Removal Plan - Basecourse

Toitū Te Whenua Land Information New Zealand
Addendum Detailed Site Investigation - Coal Tar
Former Tokanui Hospital Demolition and Remediation Project
Tokanui

Date: 25/09/2024
Drawing Reference: 33205/CT23
Drawn by: EB
Reviewed by: SF
Job Number: 33205



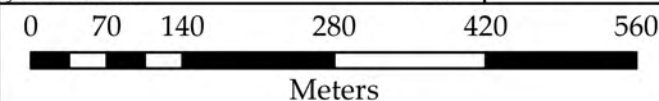


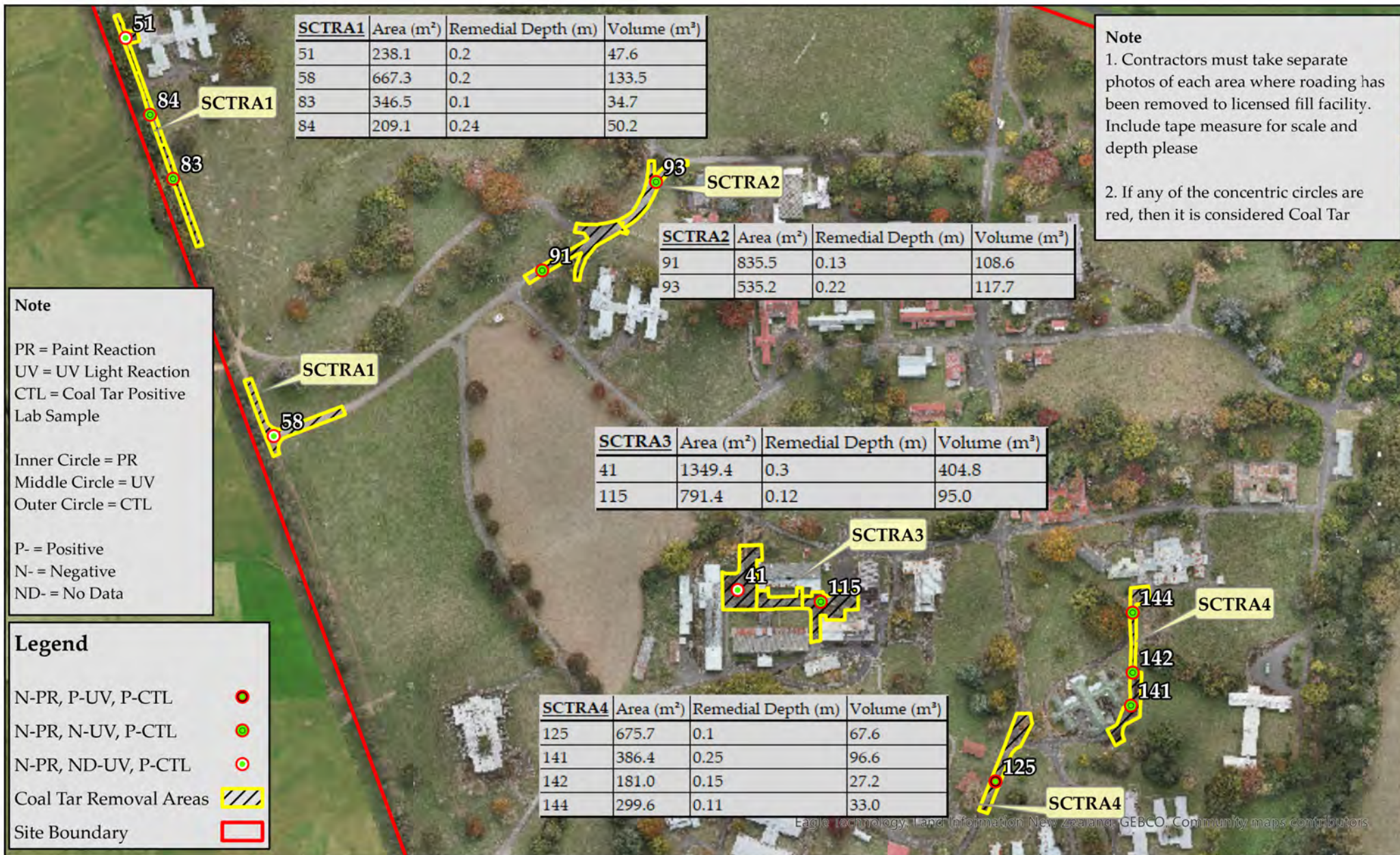


CT25: Coal Tar Removal Plan - Subbase Overview

Toitū Te Whenua Land Information New Zealand
 Addendum Detailed Site Investigation - Coal Tar
 Former Tokanui Hospital Demolition and Remediation Project
 Tokanui

Date: 25/09/2024
 Drawing Reference: 33205/CT25
 Drawn by: EB
 Reviewed by: SF
 Job Number: 33205



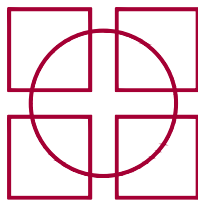


TOKANUI HOSPITAL HORIZONTAL INFRASTRUCTURE

TOITŪ TE WHENUA - LINZ CULVERT 2 REMOVAL SERIES

33205

FOR RESOURCE CONSENT



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ISSUE SET 1

08/11/24

LIST OF DRAWINGS		18/09/2024	07/11/2024
		ISSUE SET	1
DRAWING	DRAWING TITLE		
33205/EMB000	CULVERT 2 - EXISTING SITUATION	-	-
33205/EMB001	CULVERT 2 REMOVAL PLAN	-	-
33205/EMB002	CULVERT 2 REMOVAL - CROSS SECTIONS	-	-
33205/EMB003	CULVERT 2 REMOVAL CUT AND FILL PLAN	-	-
33205/EMB004	CULVERT 2 REMOVAL - EROSION AND SEDIMENT CONTROL PLAN	-	-

Legend

Site Boundary

Deferred Selection Area

Estimated Existing Landfill Extent

Proposed Ground Levels

Existing Ground Levels

Proposed 1% AEP Flood Extent

Proposed Grass

Proposed Stream

Proposed Stream bank

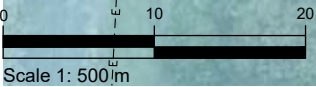
Proposed Planting

Proposed Landfill Toe Bund

Proposed Farm Access

Tokanui Hospital Site

P:\33 series\33205 Tokanui Infrastructure\03 Drawings\33205-2000Set - Demolition\33205-EMB000.dwg, tvohra, 6/11/2024 8:48 am



350NB asbestos cement pipe located in testpit EMB02, cover depth 0.5m. Extent of pipe unknown

Approximate location of existing culvert (estimated diameter = 1350mm)

Existing access road

200NB asbestos cement pipe to be removed

Large existing trees, and large fallen tree trunks

MH 2203
V 2206

SSMH 2205

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PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
CULVERT 2 - EXISTING
SITUATION

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PROJECT
**TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE**

TITLE
CULVERT 2 REMOVAL PLAN

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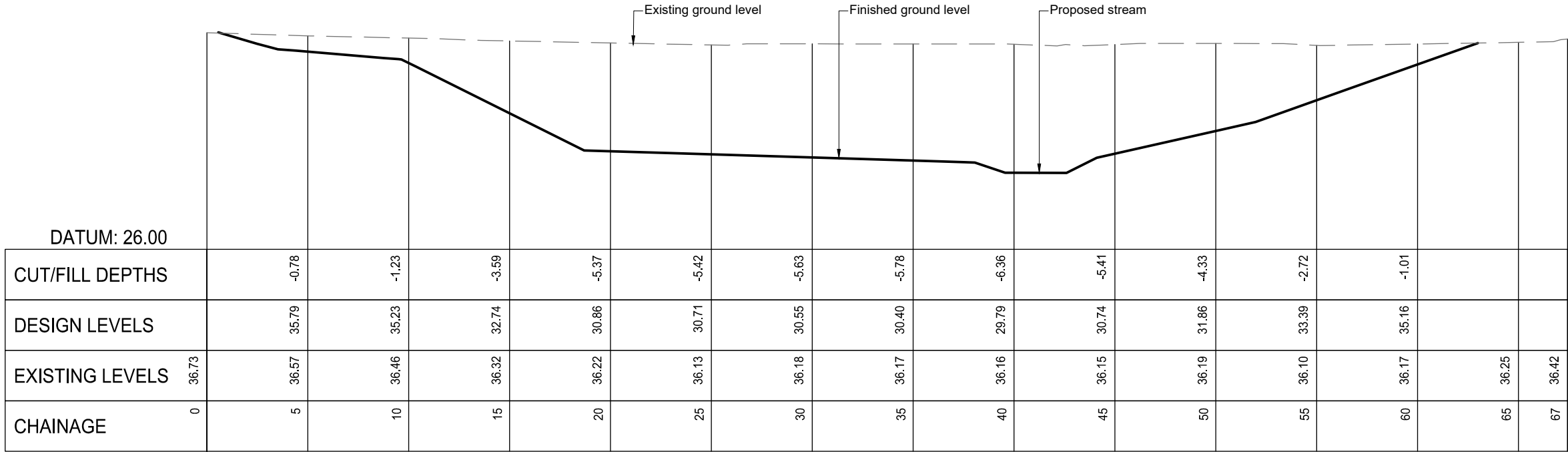
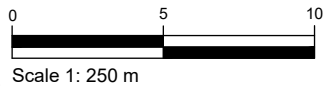
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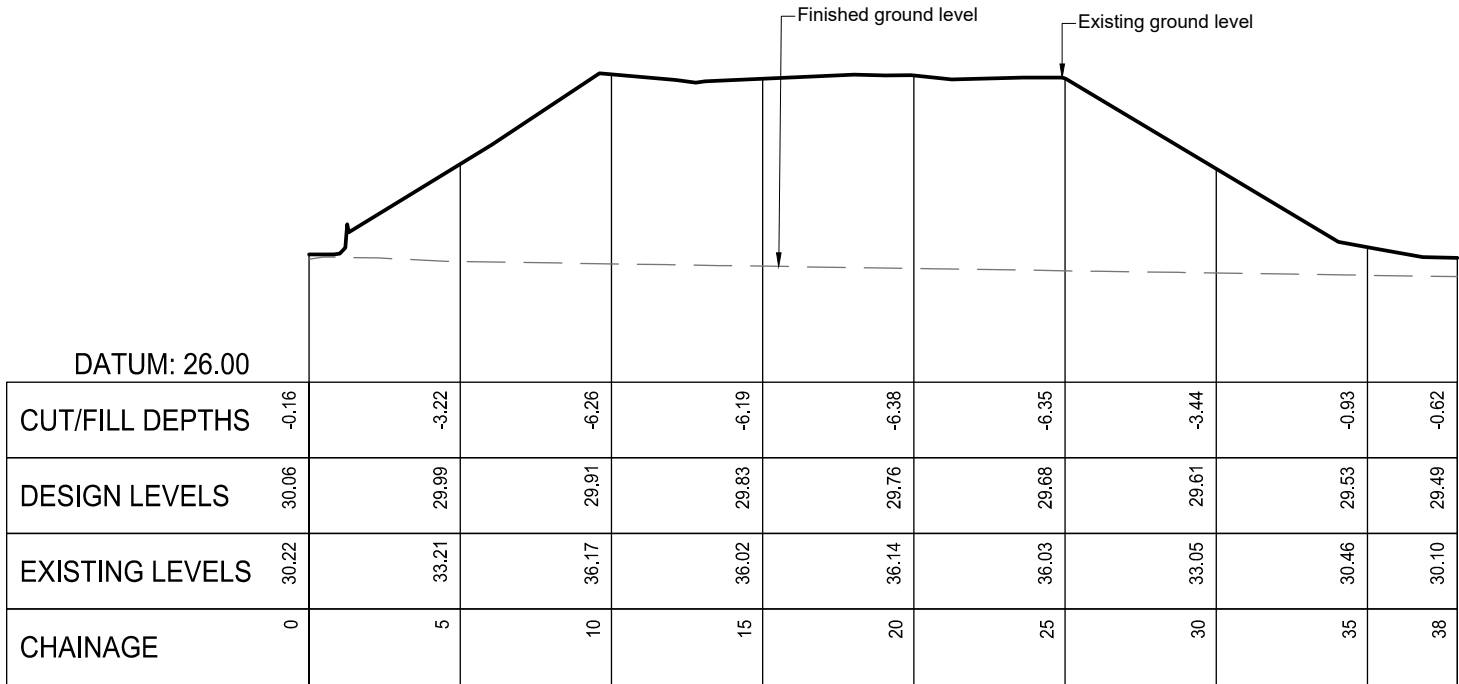
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SCALE	1:500	(A3)
DRAWING No	33205/EMB001	REVISION
		-

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4-1 Cross Section 4-1
001 1:250



4-2 Cross Section 4-2
001 1:250

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PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
CULVERT 2 REMOVAL - CROSS
SECTIONS

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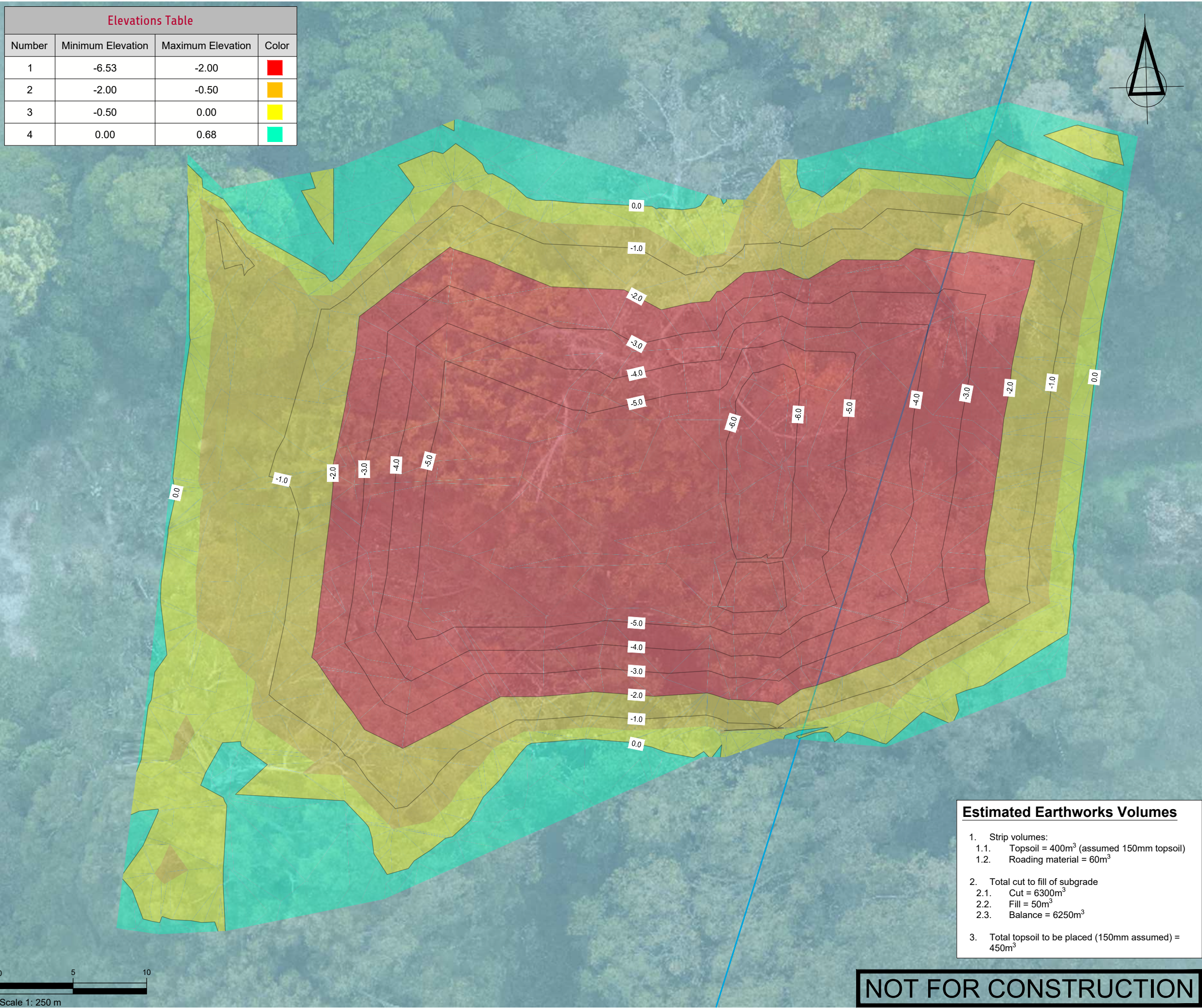
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SCALE 1:250 (A3)

DRAWING No 33205/EMB002 REVISION -

P:\33 series\33205 Tokanui Infrastructure\03 Drawings\33205-2000Set - Demolition\33205-EMB003.dwg, tvohra, 6/11/2024 8:48 am

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-6.53	-2.00	
2	-2.00	-0.50	
3	-0.50	0.00	
4	0.00	0.68	



Estimated Earthworks Volumes

- Strip volumes:
 - Topsoil = 400m³ (assumed 150mm topsoil)
 - Roading material = 60m³
- Total cut to fill of subgrade
 - Cut = 6300m³
 - Fill = 50m³
 - Balance = 6250m³
- Total topsoil to be placed (150mm assumed) = 450m³

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COORDINATE: New Zealand Transverse Mercator

CLIENT
TOITŪ TE WHENUA - LINZ

PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
CULVERT 2 REMOVAL CUT AND
FILL PLAN

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SCALE 1:250	(A3)
DRAWING No 33205/EMB003	REVISION -

Legend - Earthworks

Ex Contours	
Pr Contours (Major/Minor)	
Sediment Control Device	
Silt Fence	
Super Silt Fence	
Clean Water Diversion Channel	
Dirty Water Diversion Channel	
Clean Water Pump Rising Main	
Dirty Water Pump Rising Main	
Clean/Dirty Water Pump	
Extent of Earthworks	
Stabilised Ground	
Estimated Existing Landfill Extent	
Indicative Catchment Areas	
Topsoil Stockpile	
Clay Stockpile	



Construction Methodology

1. Fell and remove trees
2. Install silt fences, and clean water diversion drains. Prepare clean water diversion pumps in case needed.
3. Remove road paving.
4. Strip vegetation
5. Remove topsoil to stockpiles
6. Begin excavating clay and transport to relevant areas.
7. Once most of the embankment has been removed, topsoil and stabilise the majority of the banks with coir matting.
8. Wait till clear weather, install clean water diversion pump and bund off stream.
9. Remove culvert and stabilise stream bed.
10. Remove stream diversion and pump.
11. Stabilise remaining areas (e.g. access roads into stream)
12. Remove remaining sediment controls

Notes

- a. Contractor to monitor weather closely. If medium to large rainfall predicted, contractor to install BIDIM cloth from upstream to downstream to allow any flood waters to pass over the earthworks area without uplifting sediment.
- b. Clay to be stockpiled within hospital site (not shown on this plan). Install perimeter silt fence around any clay stockpiles.

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NOTES			

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CLIENT
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PROJECT
TOKANUI HOSPITAL HORIZONTAL INFRASTRUCTURE

TITLE
CULVERT 2 REMOVAL - EROSION AND SEDIMENT CONTROL PLAN



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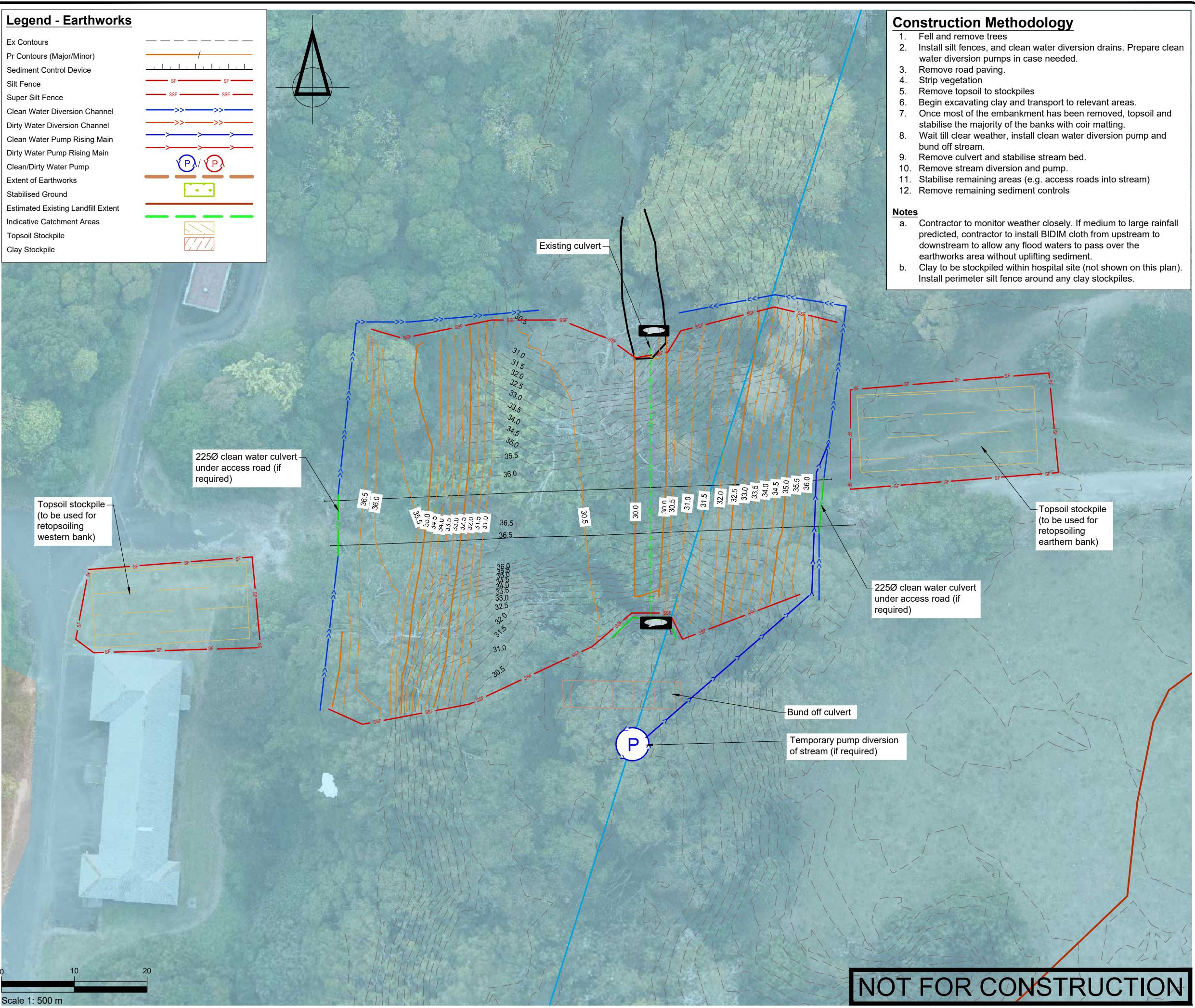
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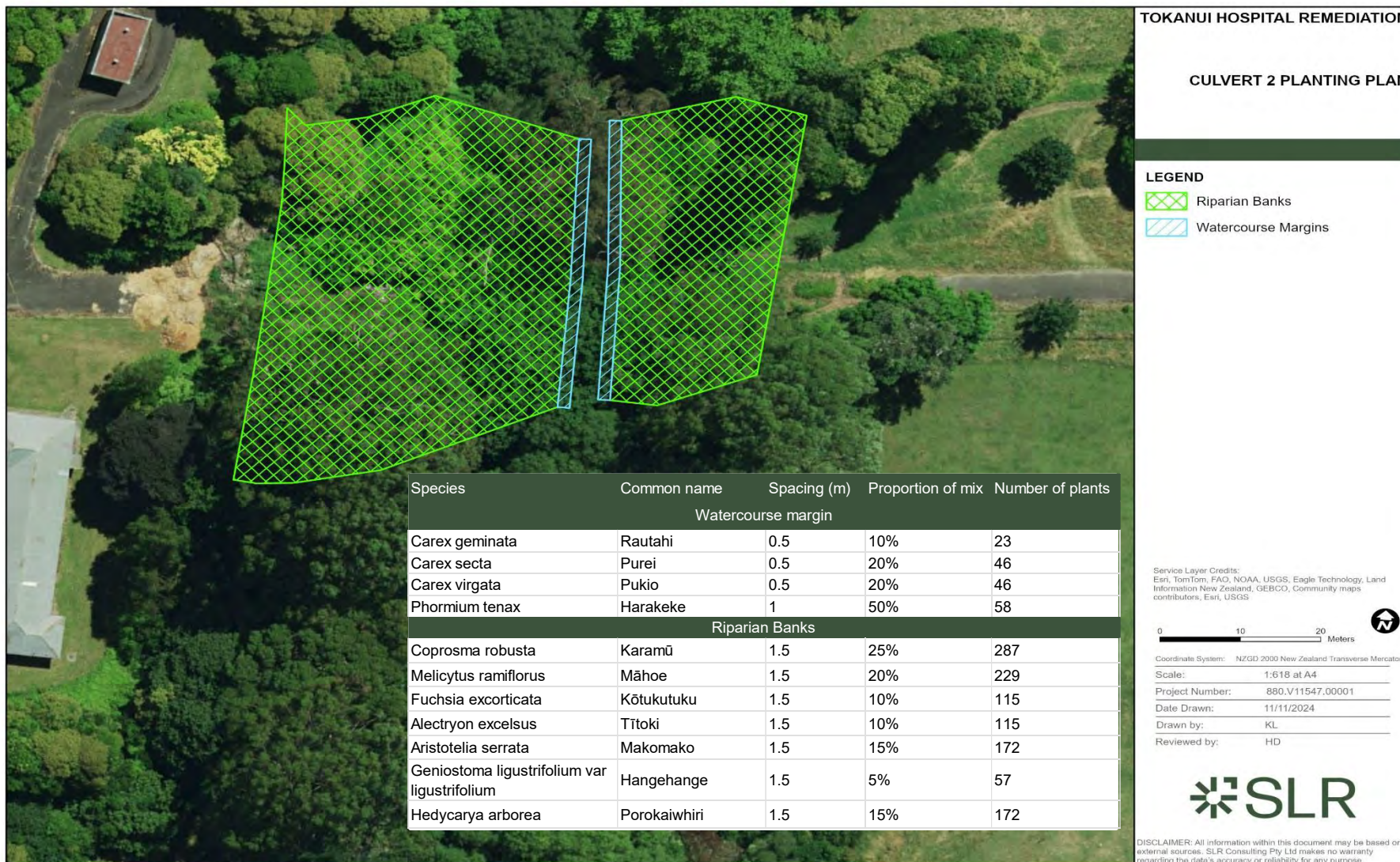
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Exact location of outlet to be confirmed prior to works.

Existing landfill Area H-

Form new toe bund for existing landfill Area A1

- Stream designed with meanders and will be planted with natives with rock/logs located throughout.

- Rear face of toe bund to be backfilled with refuse material and then capped, topsoiled and grassed

— Farm track to be lifted to detain flood waters to existing levels

Existing landfill Area A2

Culvert 3 Remedial works

Strip topsoil, landfill cap and any soils/fill material. Excavate all refuse from area, disposing of the refuse into the southern disposal site. Undercut the natural ground if required, and then form the proposed stream and farm crossing. Topsoil and stabilise the area. Riparian planting along the stream.

New 1350mmØ stormwater — culvert see FTL Drawing 33097/LF360 for long section. Base of culvert to be embedded 340mm into the ground. Spoiler baffles to be added to assist fish passage, as required

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[illegible]

NOTES

PROJECT DATUMS:

LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

CLIENT

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT

FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

AREAS A2/H & CULVERT 3
PROPOSED FINAL DESIGN PLAN



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SCALE 1:500

3)

DRAWING No.

33097/LF310

VISION

A

Legend

Site Boundary

Deferred Selection Area

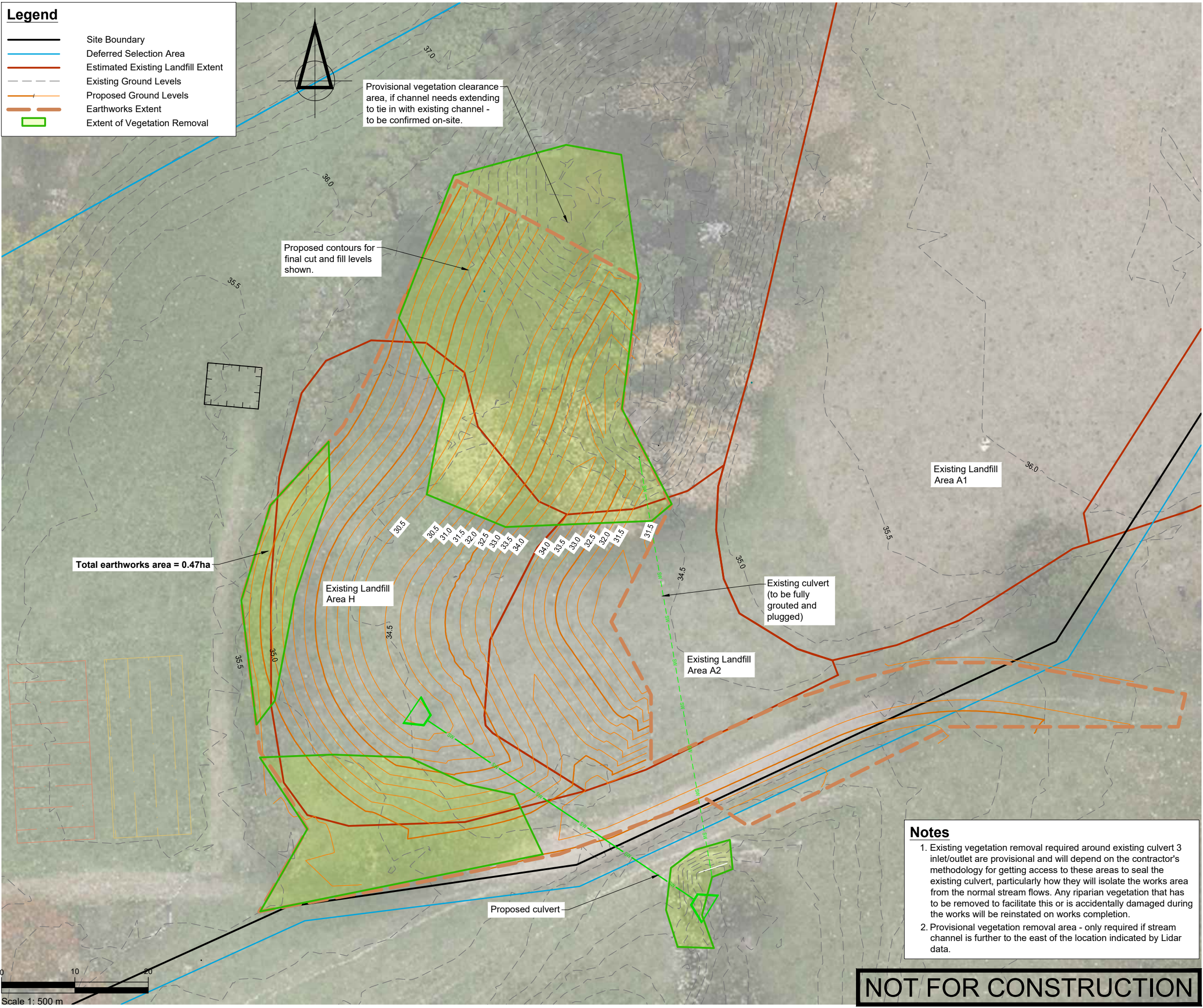
Estimated Existing Landfill Extent

Existing Ground Levels

Proposed Ground Levels

Earthworks Extent

Extent of Vegetation Removal



SURVEYED			APPROVED SF 05/11/24	DATE	
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CHECKED	SF	05/11/24			
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NOTES

PROJECT DATUMS:

LEVEL: Auckland Vertical Datum 1946

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CLIENT

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT

FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

INDICATIVE VEGETATION
REMOVAL PLAN

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- Notes
1. Existing vegetation removal required around existing culvert 3 inlet/outlet are provisional and will depend on the contractor's methodology for getting access to these areas to seal the existing culvert, particularly how they will isolate the works area from the normal stream flows. Any riparian vegetation that has to be removed to facilitate this or is accidentally damaged during the works will be reinstated on works completion.

2. Provisional vegetation removal area - only required if stream channel is further to the east of the location indicated by Lidar data.

NOT FOR CONSTRUCTION

STATUS

FOR RESOURCE CONSENT

Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.

SCALE 1:500 (A3)

DRAWING No 33097/LF311

REVISION -

Legend

Site Boundary

Deferred Selection Area

Estimated Existing Landfill Extent

Existing Ground Levels

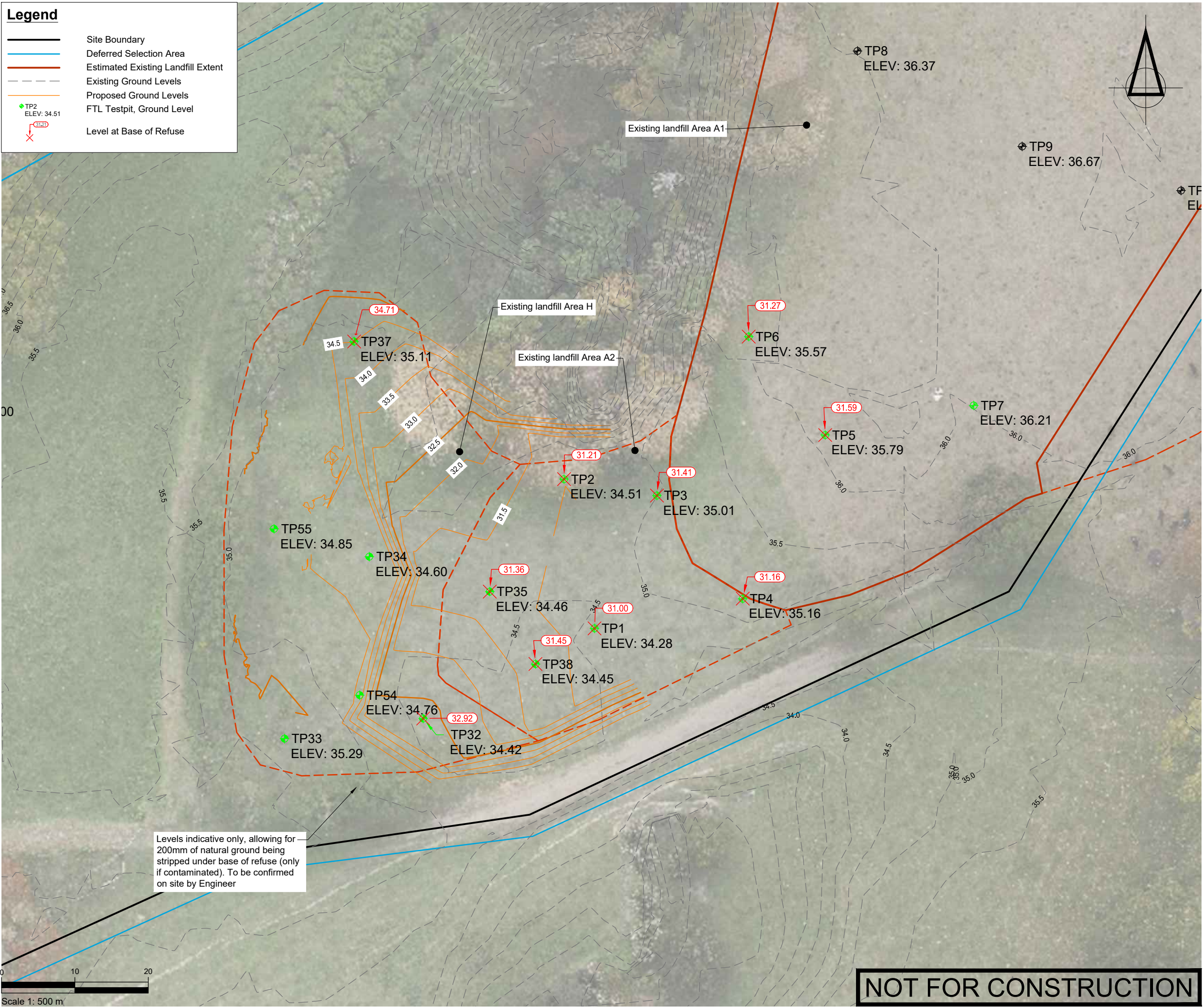
Proposed Ground Levels

TP2

ELEV: 34.51

FTL Testpit, Ground Level

Level at Base of Refuse



SURVEYED			APPROVED SF 05/11/24	DATE	
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CHECKED	SF	05/11/24			
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NOTES

PROJECT DATUMS:

LEVEL: Auckland Vertical Datum 1946

COORDINATE: New Zealand Transverse Mercator

CLIENT

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT

FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

AREAS A2/H & CULVERT 3
REFUSE UNDERCUT PLAN

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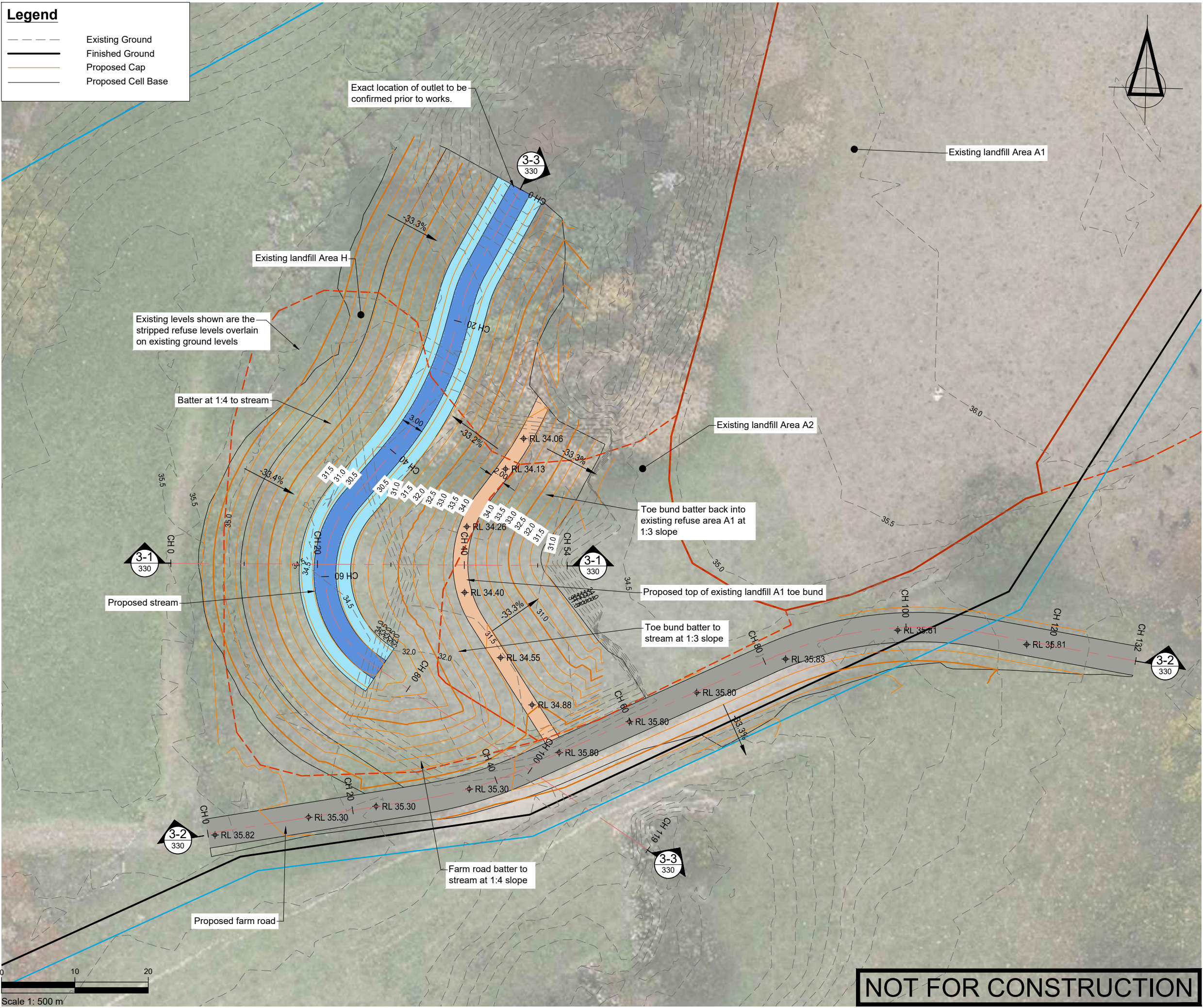
SCALE 1:500 (A3)

DRAWING No 33097/LF320

REVISION -

Legend

- Existing Ground
- Finished Ground
- Proposed Cap
- Proposed Cell Base



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CHECKED	SF	05/11/24			
REVISION	CHANGES			CHECKED	DATE

NOTES

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PROJECT
FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE
AREAS A2/H & CULVERT 3
FINISHED LEVELS PLAN

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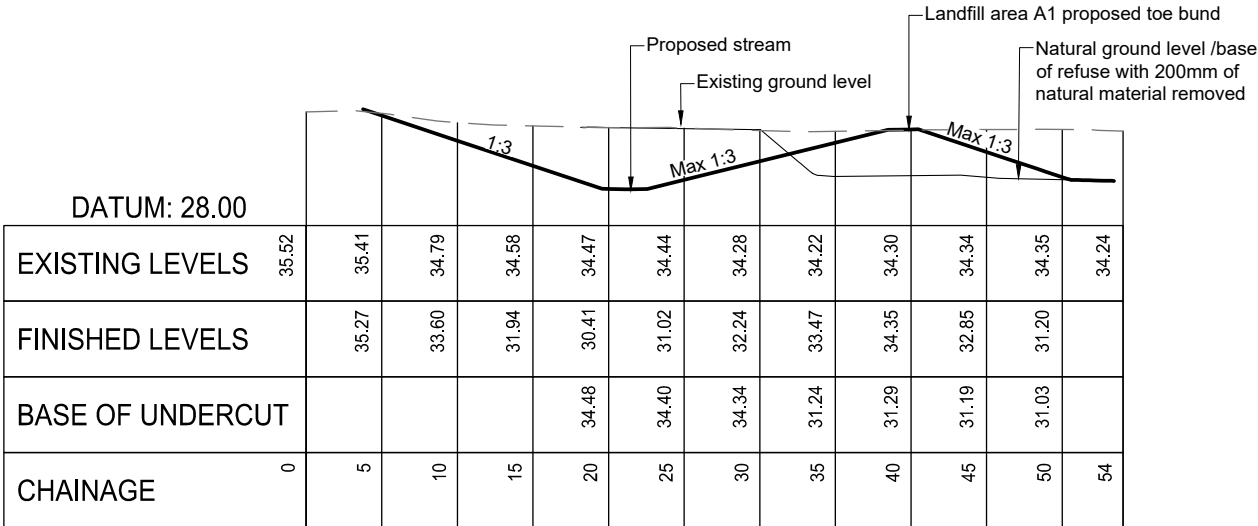
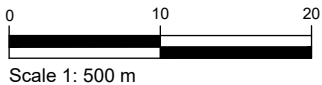
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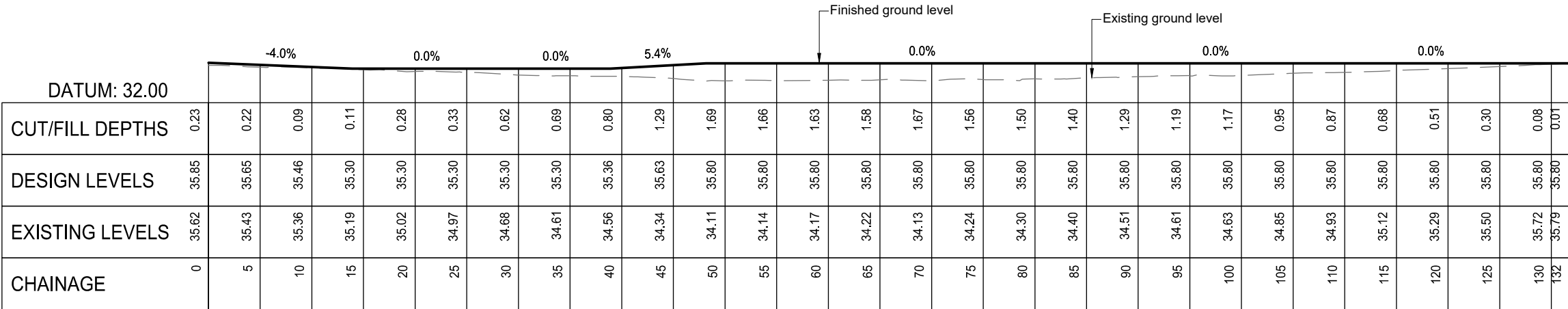
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DRAWING No 33097/LF321 REVISION -

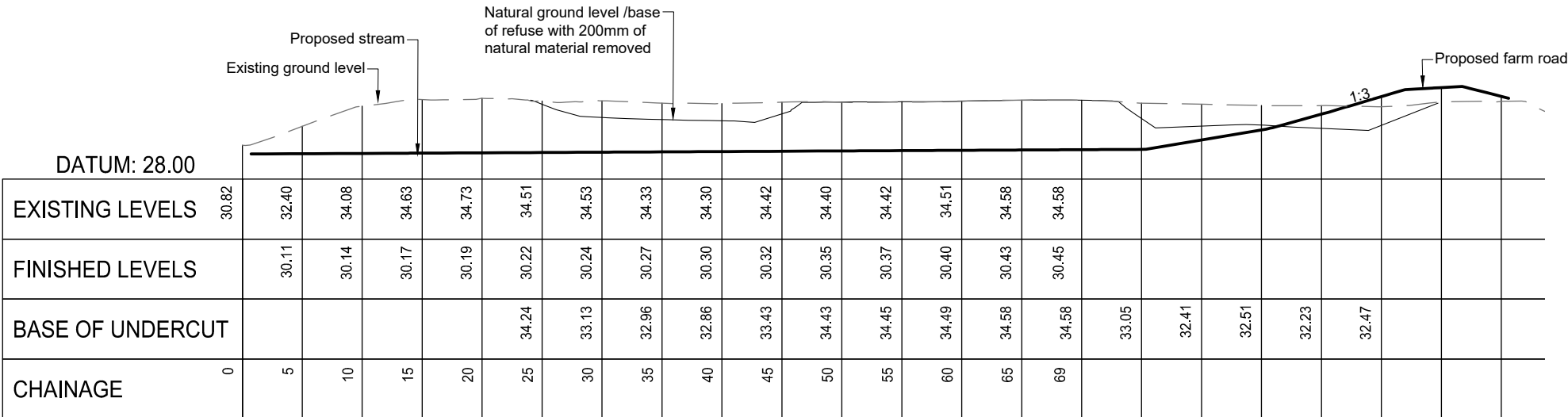
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3-1 Cross Section 3-1
321 1:500



3-2 Cross Section 3-2
321 1:500



3-3 Cross Section 3-3
321 1:500

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CHECKED	SF	05/11/24			
REVISION	CHANGES			CHECKED	DATE

NOTES

PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

CLIENT

TOITU TE WHENUA LAND
INFORMATION NEW ZEALAND

PROJECT

FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

AREAS A2/H & CULVERT 3
CROSS SECTION PLAN 1

ENGINEERS • RESOURCE MANAGERS • SURVEYORS

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HAWKE'S BAY 06 211 2766
CHRISTCHURCH 03 358 5936
BLENHEIM 03 428 3292
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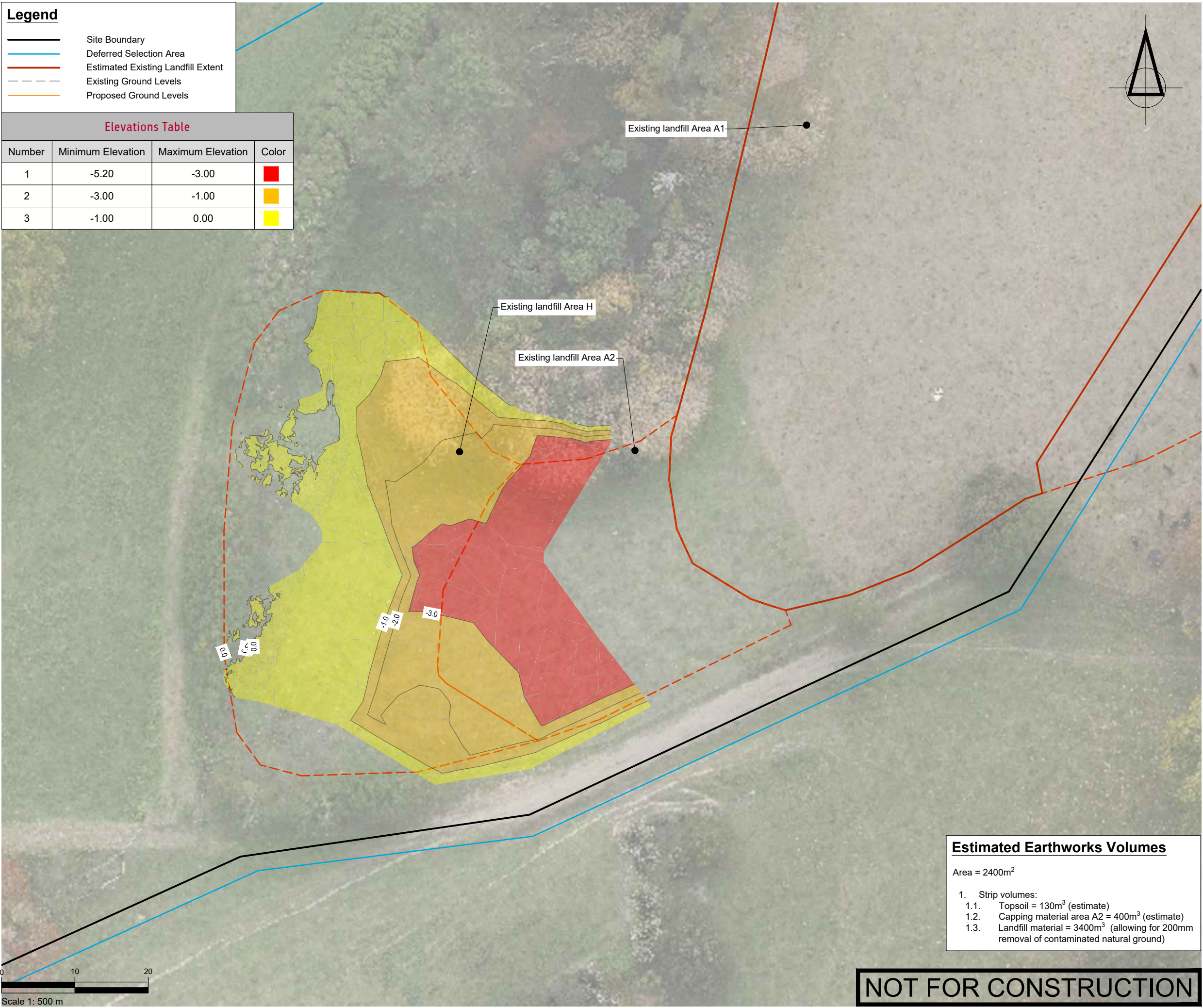
SCALE 1:500 (A3)

DRAWING No 33097/LF330 REVISION -

Legend

- Site Boundary
- Deferred Selection Area
- Estimated Existing Landfill Extent
- Existing Ground Levels
- Proposed Ground Levels

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-5.20	-3.00	
2	-3.00	-1.00	
3	-1.00	0.00	



Estimated Earthworks Volumes

Area = 2400m²

1. Strip volumes:

- 1.1. Topsoil = 130m³ (estimate)
- 1.2. Capping material area A2 = 400m³ (estimate)
- 1.3. Landfill material = 3400m³ (allowing for 200mm removal of contaminated natural ground)

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INFORMATION NEW ZEALAND

PROJECT
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PROJECT

TITLE
AREAS A2/H & CULVERT 3
UNDERCUT STRIP PLAN

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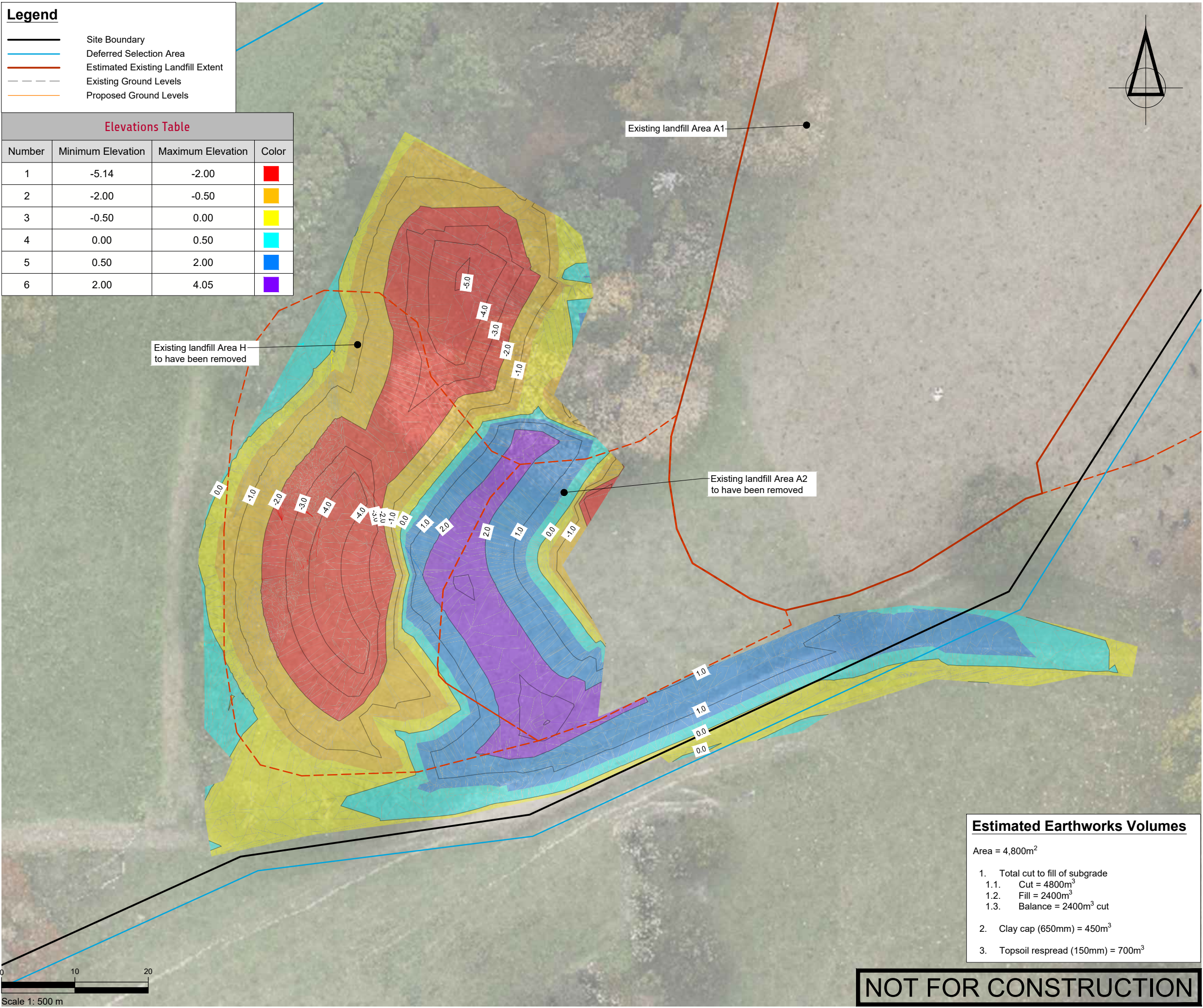
STATUS
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SCALE	1:500	(A3)
DRAWING No	33097/LF340	REVISION
		-

Legend

- Site Boundary
- Deferred Selection Area
- Estimated Existing Landfill Extent
- Existing Ground Levels
- Proposed Ground Levels

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-5.14	-2.00	
2	-2.00	-0.50	
3	-0.50	0.00	
4	0.00	0.50	
5	0.50	2.00	
6	2.00	4.05	



Estimated Earthworks Volumes

- Area = 4,800m²
- Total cut to fill of subgrade
 - Cut = 4800m³
 - Fill = 2400m³
 - Balance = 2400m³ cut
 - Clay cap (650mm) = 450m³
 - Topsoil respread (150mm) = 700m³

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NOTES

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PROJECT
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DEMOLITION AND REMEDIATION
PROJECT

TITLE
AREAS A2/H & CULVERT 3
FINAL LEVELS CUT AND FILL
PLAN

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REVISION	CHANGES			CHECKED	DATE
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NOTES

PROJECT DATUMS:
LEVEL: Auckland Vertical Datum 1946
COORDINATE: New Zealand Transverse Mercator

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INFORMATION NEW ZEALAND

PROJECT

FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

AREAS A2/H & CULVERT 3
CULVERT LONG SECTION PLAN



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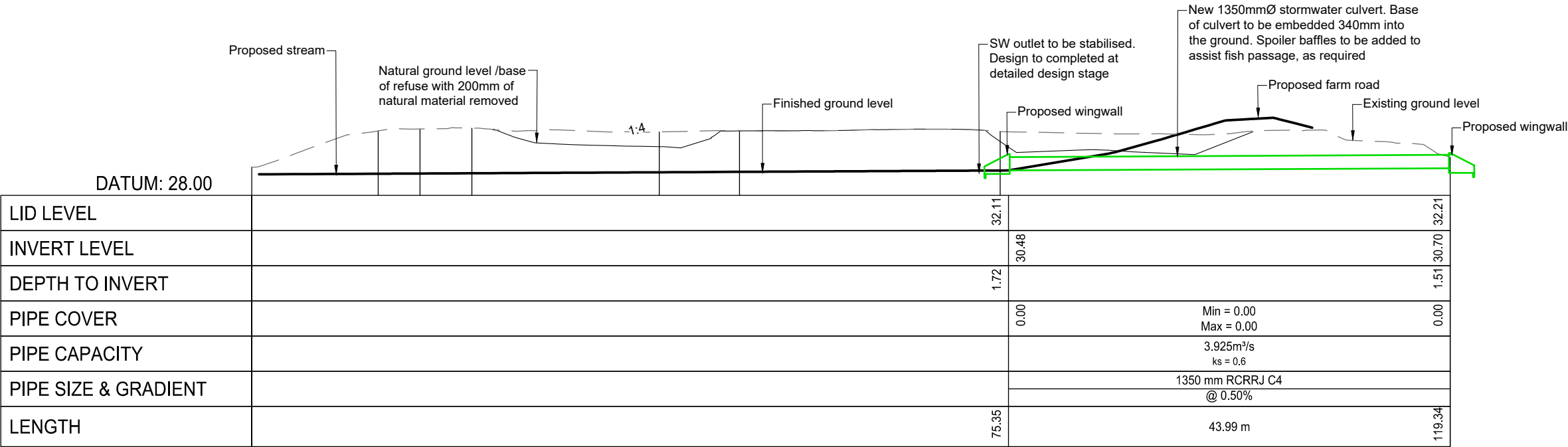
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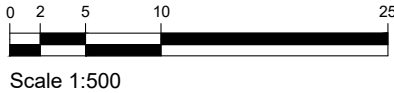
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SCALE 1:500 (A3)

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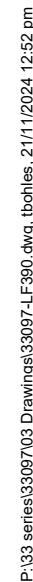


L1 Stormwater Long Section 1
360 1:500



NOT FOR CONSTRUCTION

Ex Contours	
Pr Contours (Major/Minor)	
Sediment Control Device	
Silt Fence	
Super Silt Fence	
Clean Water Diversion Channel	
Dirty Water Diversion Channel	
Clean Water Pump Rising Main	
Dirty Water Pump Rising Main	
Clean/Dirty Water Pump	
Extent of Earthworks	
Stabilised Ground	
Estimated Existing Landfill Extent	
Indicative Catchment Areas	
Topsoil Stockpile	
Clay Stockpile	



1. Install silt fences, portable silt/sediment removal device or DEB(s) outside of works area and clean water diversion drains. Allow for pump in lowest area of excavation to pump dirty runoff to portable silt/sediment removal device/DEB(s). Use the existing farm crossing as a clean water diversion bund upstream of the works, and maintain Culvert 3 live for as long as possible during the works. Allow for clean water diversion pump to be available for diversion of stream water if necessary.
2. Groundwater piezometers are planned to be installed in this area to check groundwater depths within Area A2/H as part of detailed design. If necessary, based on the groundwater depth findings, install a number of dewatering wells or wellpoints or temporary pump for dewatering to lower the groundwater table within the works area.
3. Mark out the approximate alignment of Culvert 3 pre-works (assumed straight line between inlet and outlet). Trafficking over this culvert should be minimised during the works, with refuse being shifted from Area A2/H to A1/B by truck via the existing farm crossing. The best available information indicates that the top of Culvert 3 is just over 2m below existing ground level (see Figure 14).
4. Strip existing topsoil and landfill cap from the works area and stockpile separately outside the works area. Refuse layers will then be removed and transferred to Area A1 by truck. Fill material (that is not refuse) will either be transferred to Area A1 or used for other purposes (e.g. cap) depending on its contamination status.
5. Once the refuse has been transferred, construct a compacted toe bund embankment along the western side of the residual A2 Area. Stockpiled landfill material will be placed in the void between the toe bund and refuse as necessary. A low permeability cap will then be placed over the material followed by topsoil. Capping details will be as for Area A1.
6. Cut in the new stream channel (approximately 75m long with base width of 4m with maximum side slopes of 1V:3H, with some meanders), retopsoiling the channel and line with biodegradable coir matting to stabilise it, followed by planting with natives in accordance with the landscaping plan and placement of some rocks and logs. Place clean, stockpiled capping material or clean fill material from Area H to fill any depressions within Area A2 and then retopsoiling, using clean topsoil.
7. For the new outfall to the stream, strip vegetation and trees. Install a temporary dam comprising steel shields or similar around the outfall works area and pump out water from inside the dam. Continue the stream channel to connect into the existing stream. Line with biodegradable coir matting to stabilise it, followed by planting as above.
8. For installation of the new shorter culvert 3 (1350 dia x 44m long), install this in a downstream to upstream direction starting at the top of the new channel. A temporary dam will be installed as for step 7 on the western side of the existing culvert 3 inlet, to isolate the area where the new culvert inlet will be installed, from water in the existing stream which will continue to flow through the existing culvert. Water will then be pumped out from inside the dam. Once the new culvert is "live", the temporary dams at each end of the stream diversion will be relocated to block off the inlet and outlet to the existing culvert. This culvert (1350mm dia x approximately 60m long) will then be filled with flowable concrete fill or similar (~86m3), with both ends of this culvert being sealed. Water within this culvert will be pumped out if necessary, or alternatively expelled naturally during the filling process.

- a. Contractor to monitor weather daily. If medium to large rainfall predicted, contractor to install BIDIM cloth from upstream to downstream to allow any flood waters to pass over the earthworks area without uplifting sediment.
- b. Clean water diversion pump may not be needed, only required if the existing culvert is unable to discharge the water from upstream at a low enough level to prevent water entering the earthworks area, or if the existing culvert is not operational.
- c. Maximum dirty water catchment area is 0.47ha. Works should be able to be progressively stabilised so that if DEBS are used, a single DEB (max 0.3ha catchment) can be used for all works. Otherwise, two DEBS may be needed to provide for entire works area.
- d. Where any runoff from within the works area comes into contact with refuse, testing of the treated water discharge is likely to be required to check it can be discharged on-site. If testing shows this is not possible, then any such runoff will either need to be treated further on-site prior to discharge, or be tankered off-site for disposal to an appropriate facility.

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[illegible]

NOTES

PROJECT DATUMS:
 LEVEL: Auckland Vertical Datum 1946
 COORDINATE: New Zealand Transverse Mercator

TOITU TE WHENUA LAND INFORMATION NEW ZEALAND

PROJECT

FORMER TOKANUI HOSPITAL
DEMOLITION AND REMEDIATION
PROJECT

TITLE

AREAS A2/H & CULVERT 3
EROSION AND SEDIMENT
CONTROL PLAN



STATUS

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SCALE	1:500	(A3)
DRAWING No	33097/LF390	REVISION
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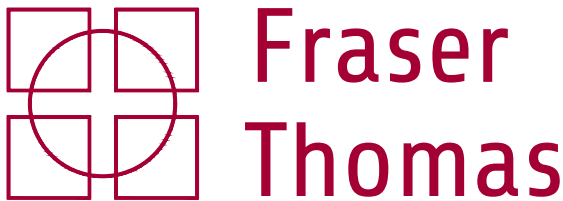
TOITŪ TE WHENUA - LINZ PL SERIES - PIPE LINING WORKS

33205

FOR RESOURCE CONSENT

ISSUE SET 2

07/11/24



LIST OF DRAWINGS		5/11/2024	07/11/2024
	ISSUE SET	1	2
DRAWING	DRAWING TITLE		
33205/PL001	EXISTING UPSTREAM STORMWATER CATCHMENT PLAN	-	-
33205/PL002	STORMWATER TRUNK MAIN LAYOUT PLAN	-	A
33205/PL003	STORMWATER SYSTEM CCTV SURVEY PLAN	-	-
33205/PL004	STORMWATER SYSTEM PIPE LINING - INDICATIVE WORKS PACKAGES PLAN	-	A
33205/PL100	STORMWATER SYSTEM PIPE LINING WORKS - STAGE 1 (WP1)	-	A
33205/PL101	STORMWATER SYSTEM PIPE LINING WORKS - STAGE 2 (WP2)	-	A
33205/PL102	STORMWATER SYSTEM PIPE LINING WORKS - STAGE 3 (WP3)	-	A
33205/PL103	STORMWATER SYSTEM PIPE LINING WORKS - STAGE 4 (WP4)	-	A
33205/PL104	STORMWATER SYSTEM PIPE LINING WORKS - STAGE 5 (WP5)	-	A
33205/PL105	STORMWATER SYSTEM PIPE LINING WORKS - STAGE 6 (WP6)	-	A
33205/PL106	STORMWATER SYSTEM PIPE LINING WORKS - STAGE 7 (WP7)	-	A
33205/PL107	STORMWATER SYSTEM PIPE LINING WORKS - STAGE 8 (WP8)	-	A
33205/PL108	STORMWATER SYSTEM PIPE LINING WORKS - STAGE 9 (WP9)	-	A
33205/PL109	STORMWATER SYSTEM PIPE LINING WORKS - STAGE 10 (WP10)	-	A

Legend

Stormwater catchments

Approximate stormwater catchment flowpath

SW

Existing stormwater network

Existing ground contours @2m intervals

SURVEYED			APPROVED	DATE	
DESIGNED	TB	01.06.23	SF	24.09.24	
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CHECKED	SF	24.09.24			
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NOTES

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

EXISTING UPSTREAM
STORMWATER CATCHMENT
PLAN

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HAWKE'S BAY

CHRISTCHURCH

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DRAWING No

33205/PL001

REVISION

-

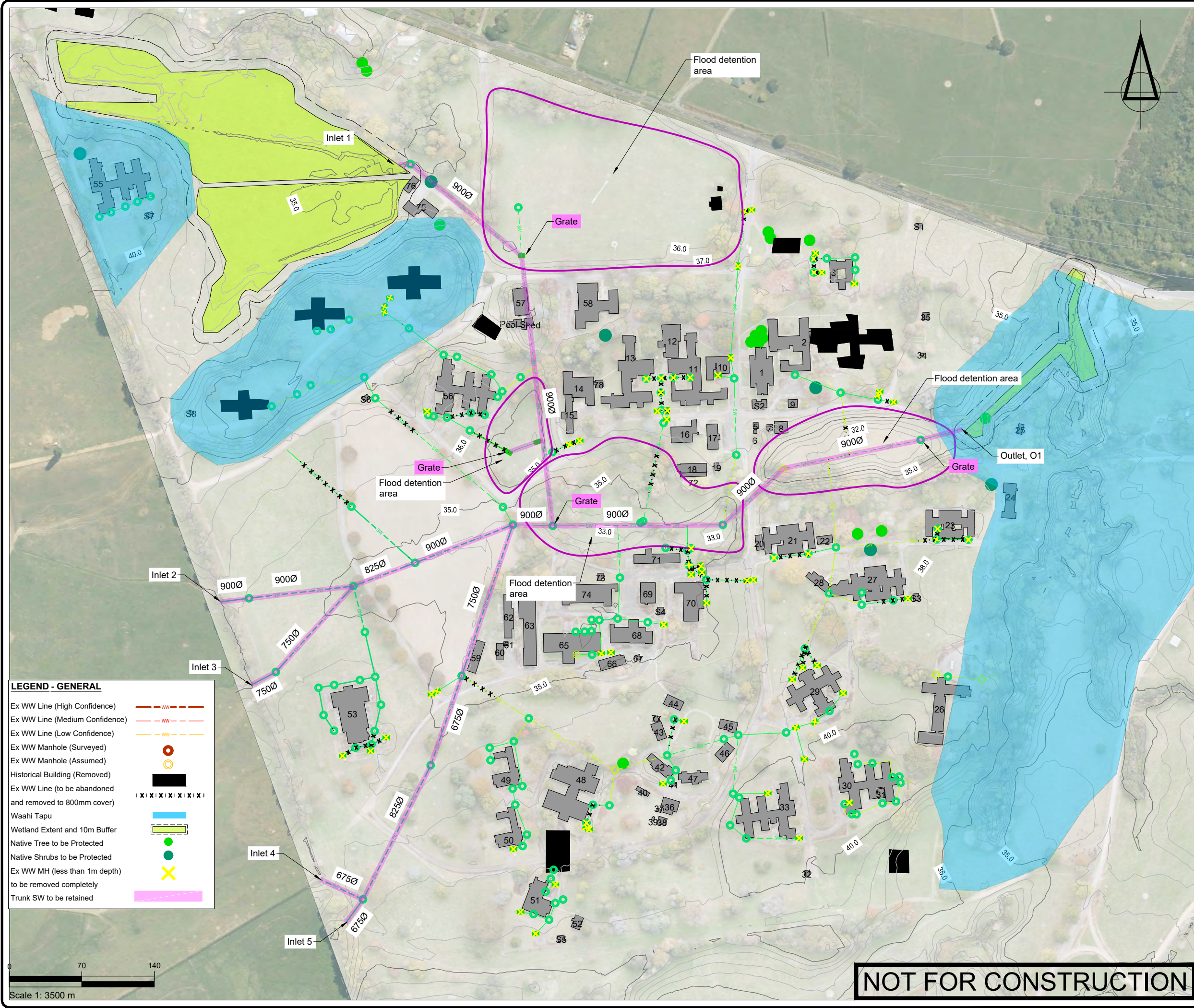
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LEGEND - GENERAL

Ex WW Line (High Confidence)	---
Ex WW Line (Medium Confidence)	---
Ex WW Line (Low Confidence)	---
Ex WW Manhole (Surveyed)	○
Ex WW Manhole (Assumed)	○
Historical Building (Removed)	■
Ex WW Line (to be abandoned and removed to 800mm cover)	---
Waahi Tapu	---
Wetland Extent and 10m Buffer	---
Native Tree to be Protected	●
Native Shrubs to be Protected	●
Ex WW MH (less than 1m depth) to be removed completely	×
Trunk SW to be retained	---

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DRAWN	FV	24.09.24			
CHECKED	SF	24.09.24			
REVISION	CHANGES			CHECKED	DATE
A	REVISED WP9			SF	07.11.24

NOTES

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PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
STORMWATER TRUNK MAIN
LAYOUT PLAN



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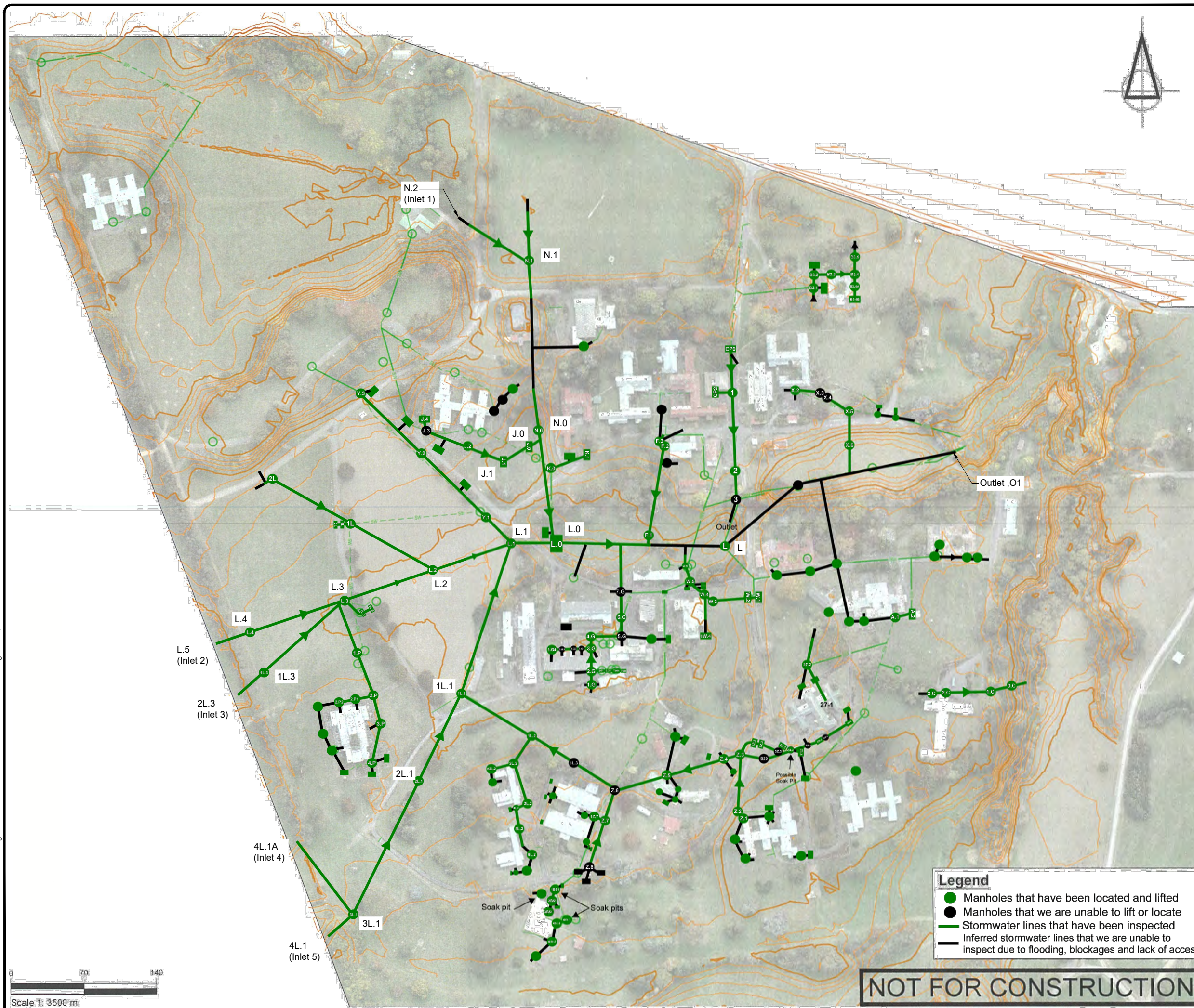
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DRAWING No	33205/PL002	REVISION
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NOTES

1. CCTV Survey Plan Provided by CST.
2. Refer Demolition Management Plan for spreadsheet summary of CCTV defects and CCTV logs.

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER SYSTEM CCTV
SURVEY PLAN

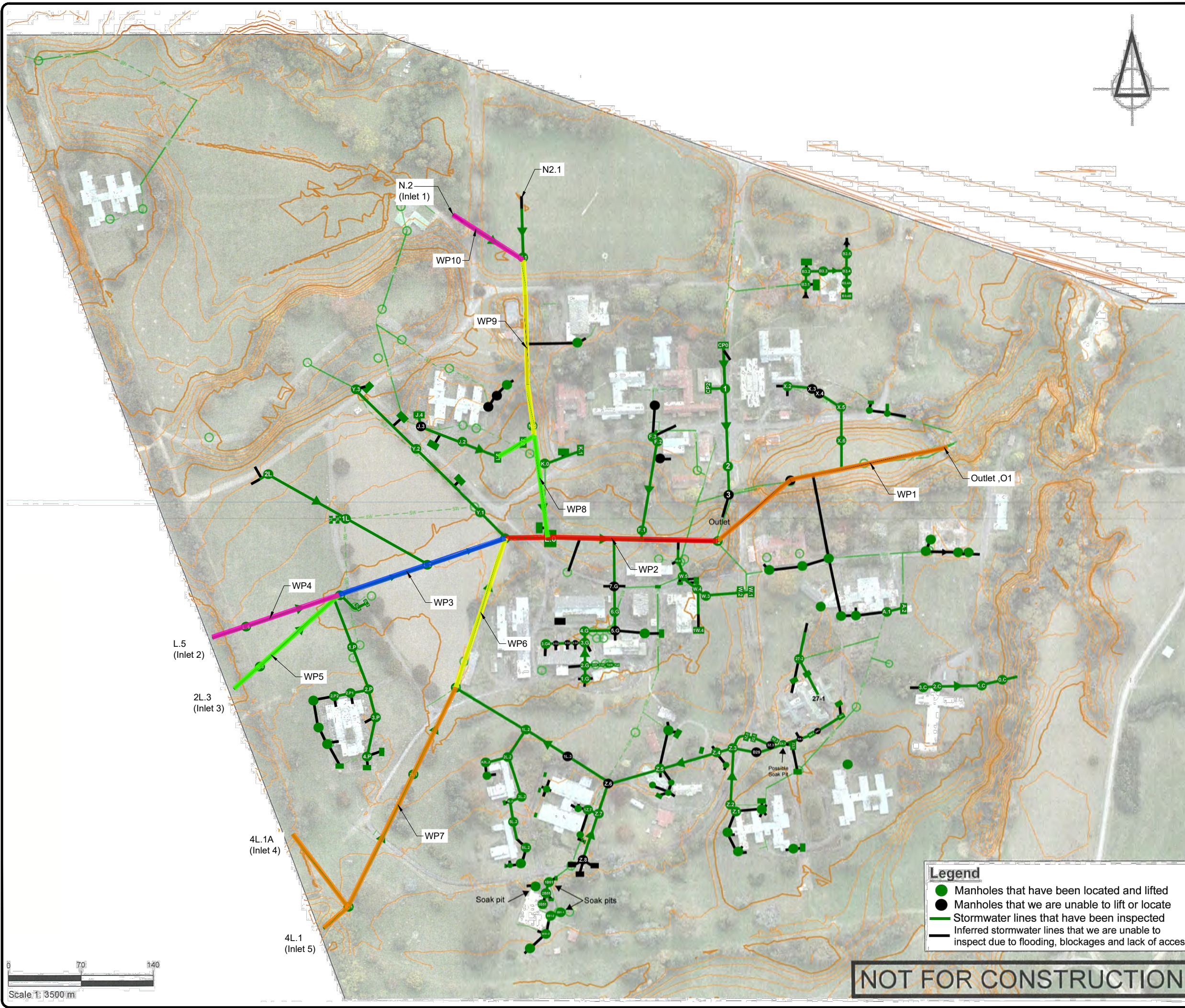
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DRAWING No	33205/PL003	REVISION

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DRAWN	FV	24.09.24			
CHECKED	SF	24.09.24			
REVISION	CHANGES			CHECKED	DATE
A	REVISED WP9			SF	07.11.24

NOTES

- CCTV Survey Plan Provided by CST.
- Refer Demolition Management Plan, Appendix C, for spreadsheet summary of CCTV defects and CCTV logs.

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER SYSTEM PIPE
LINING - INDICATIVE WORKS
PACKAGES PLAN

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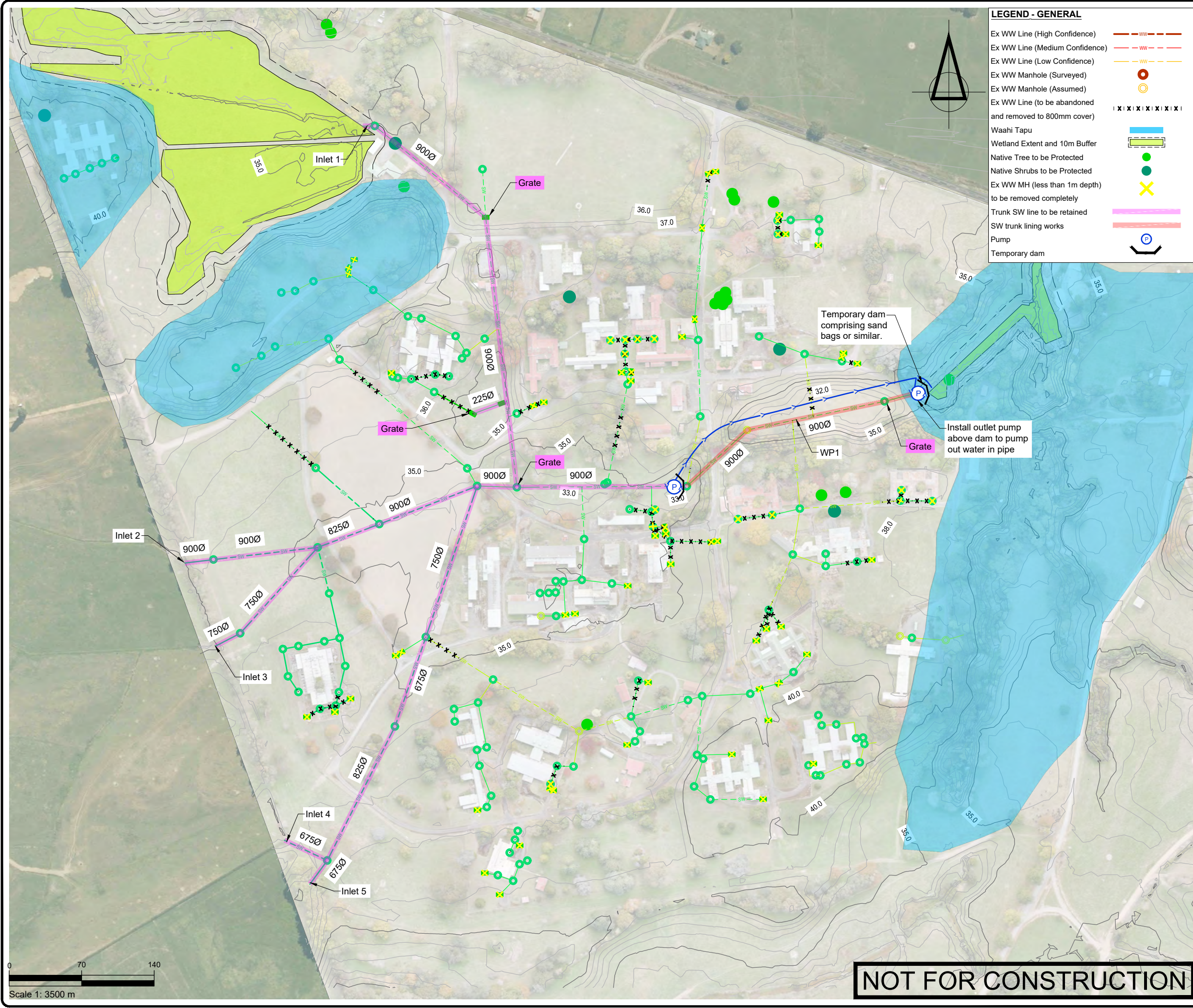
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DRAWN	FV	24.09.24			
CHECKED	SF	24.09.24			
REVISION	CHANGES			CHECKED	DATE
A	REVISED WP9			SF	07.11.24

NOTES

1. Indicative works packages labeled WP1, etc. These will be confirmed by contractor.

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TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 1 (WP1)

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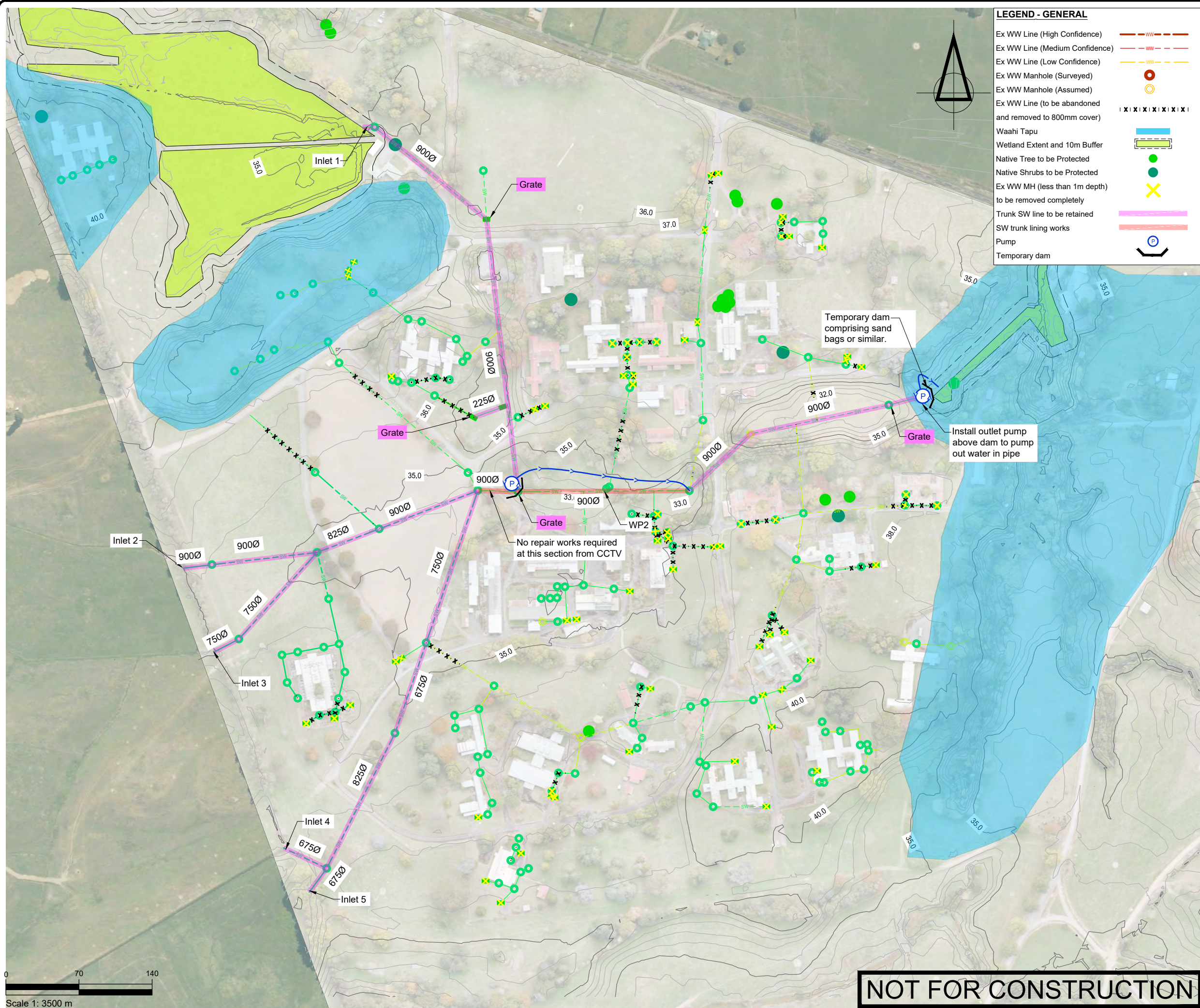
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REVISION	A

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DRAWN	FV	24.09.24		
CHECKED	SF	24.09.24		
REVISION	CHANGES		CHECKED	DATE
A	REVISED WP9		SF	07.11.24

NOTES

1. Indicative works packages labeled WP1, etc. These will be confirmed by contractor.

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 2 (WP2)

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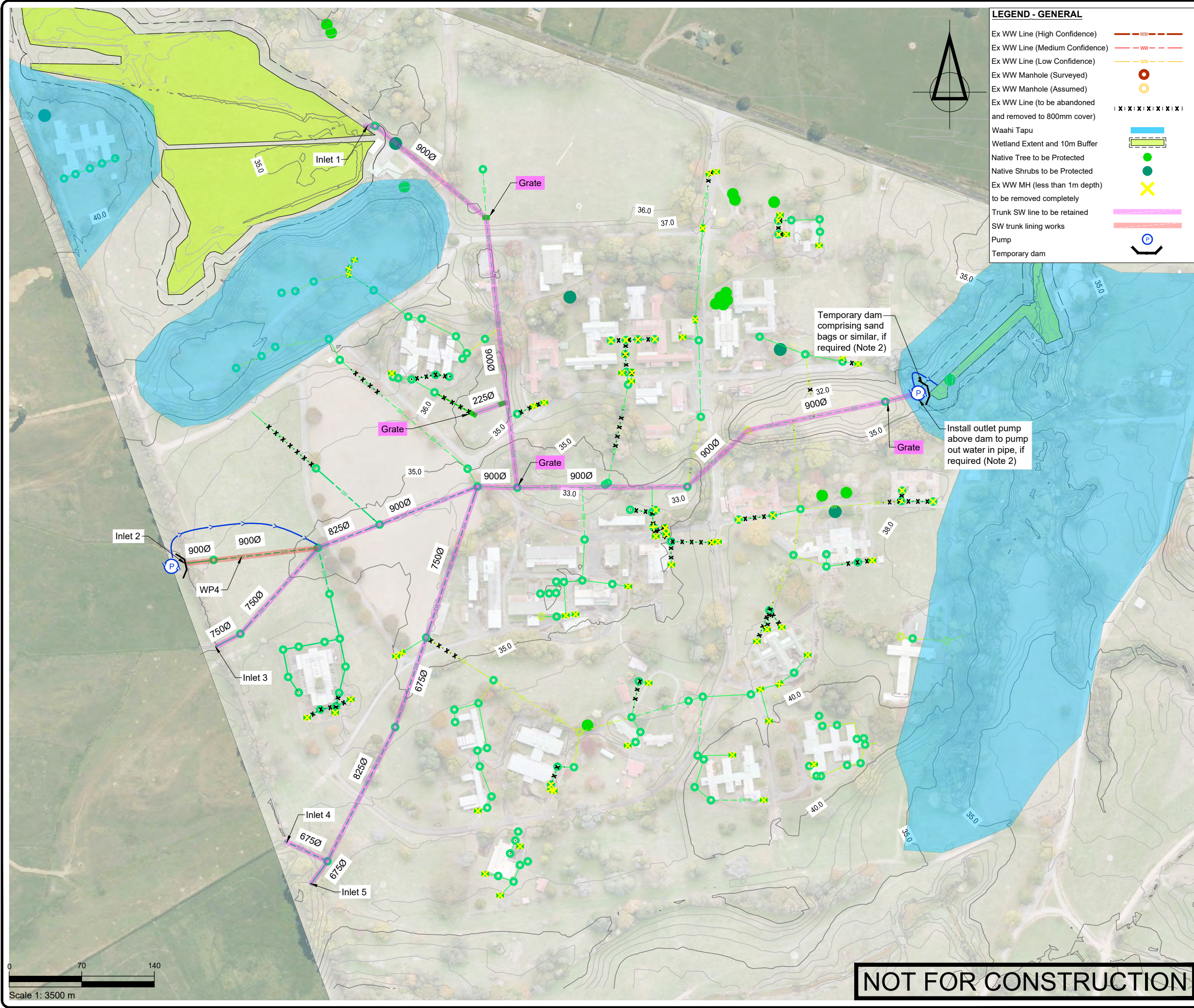
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DRAWING No 33205/PL101 REVISION A

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LEGEND - GENERAL

- Ex WW Line (High Confidence) ———— WW ————
- Ex WW Line (Medium Confidence) - - - - - WW - - - - -
- Ex WW Line (Low Confidence) ———— WW ————
- Ex WW Manhole (Surveyed) ●
- Ex WW Manhole (Assumed) ○
- Ex WW Line (to be abandoned and removed to 800mm cover) |X|X|X|X|X|X|X|X|
- Waahi Tapu
- Wetland Extent and 10m Buffer
- Native Tree to be Protected ●
- Native Shrubs to be Protected ●
- Ex WW MH (less than 1m depth) to be removed completely X
- Trunk SW line to be retained ————
- SW trunk lining works ————
- Pump (P)
- Temporary dam

SURVEYED	TB	01.06.23	APPROVED	SF	DATE
DESIGNED	TB	01.06.23			
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CHECKED	SF	24.09.24			
REVISION	CHANGES			CHECKED	DATE
A	REVISED WP9			SF	07.11.24

- NOTES
- Indicative works packages labeled WP1, etc. These will be confirmed by contractor.
 - Downstream water level at Te Mawhai Rd measured to be 30.00m RL. Oct 2024. Temporary dam and pump at outlet may be able to be removed from WP3 onwards. To be confirmed on-site.

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 4 (WP4)



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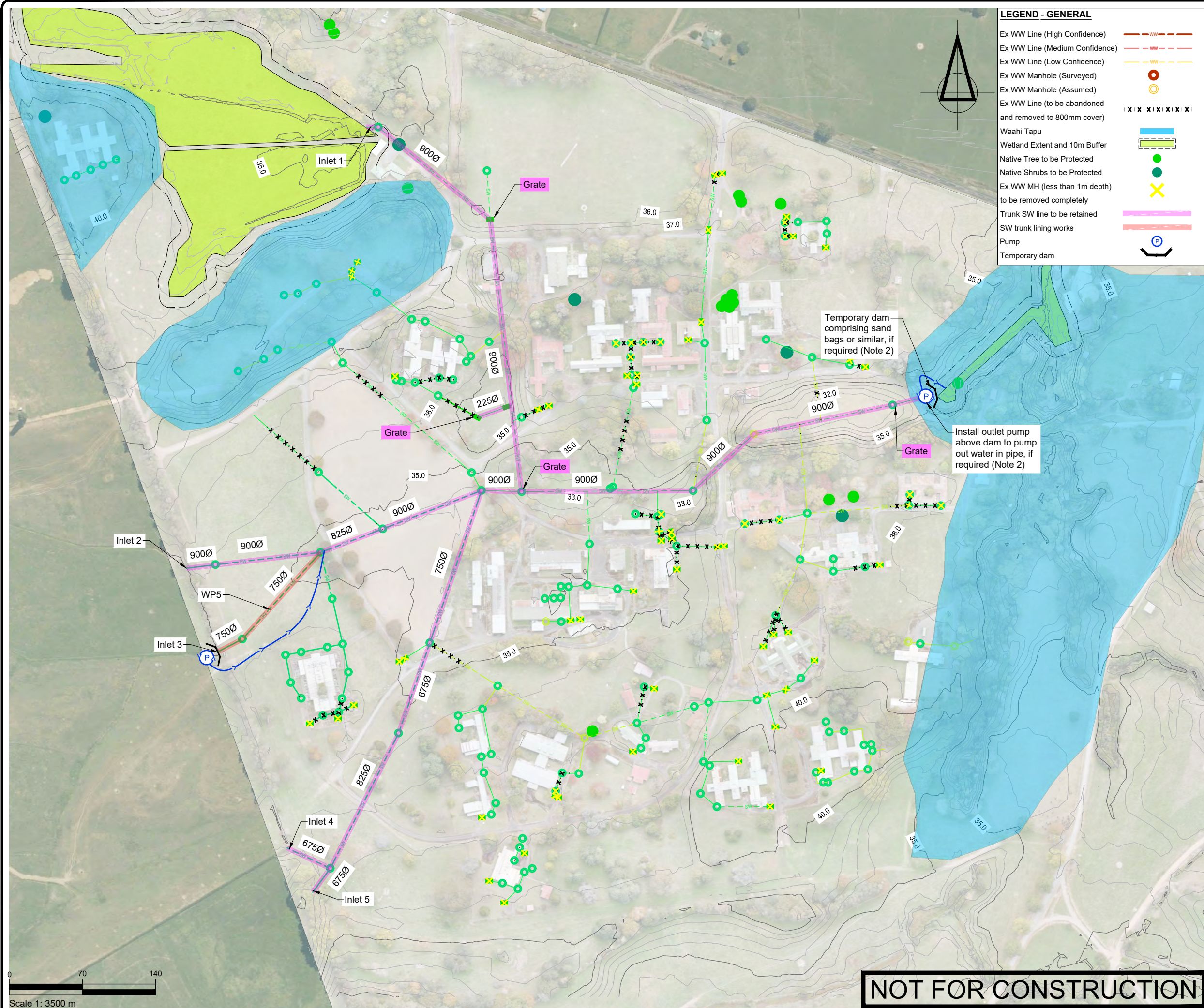
AUCKLAND 09 278 7078
HAWKE'S BAY 06 211 2766
CHRISTCHURCH 03 358 5936
BLENHEIM 03 428 3292
NELSON 03 222 1132

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SCALE	1:3500 (A3)
DRAWING No	33205/PL103
REVISION	A

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LEGEND - GENERAL

- Ex WW Line (High Confidence) ————
- Ex WW Line (Medium Confidence) - - - -
- Ex WW Line (Low Confidence) - - - -
- Ex WW Manhole (Surveyed) ●
- Ex WW Manhole (Assumed) ○
- Ex WW Line (to be abandoned and removed to 800mm cover) |X|X|X|X|X|X|X|
- Waahi Tapu
- Wetland Extent and 10m Buffer
- Native Tree to be Protected ●
- Native Shrubs to be Protected ●
- Ex WW MH (less than 1m depth) to be removed completely X
- Trunk SW line to be retained ————
- SW trunk lining works ————
- Pump (P)
- Temporary dam

SURVEYED			APPROVED		DATE
DESIGNED	TB	01.06.23	SF 24.09.24		
DRAWN	FV	24.09.24			
CHECKED	SF	24.09.24			
REVISION	CHANGES		CHECKED	DATE	
A	REVISED WP9		SF	07.11.24	

- NOTES
- Indicative works packages labeled WP1, etc. These will be confirmed by contractor.
 - Downstream water level at Te Mawhai Rd measured to be 30.00m RL. Oct 2024. Temporary dam and pump at outlet may be able to be removed from WP3 onwards. To be confirmed on-site.

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TOITŪ TE WHENUA - LINZ

PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 5 (WP5)



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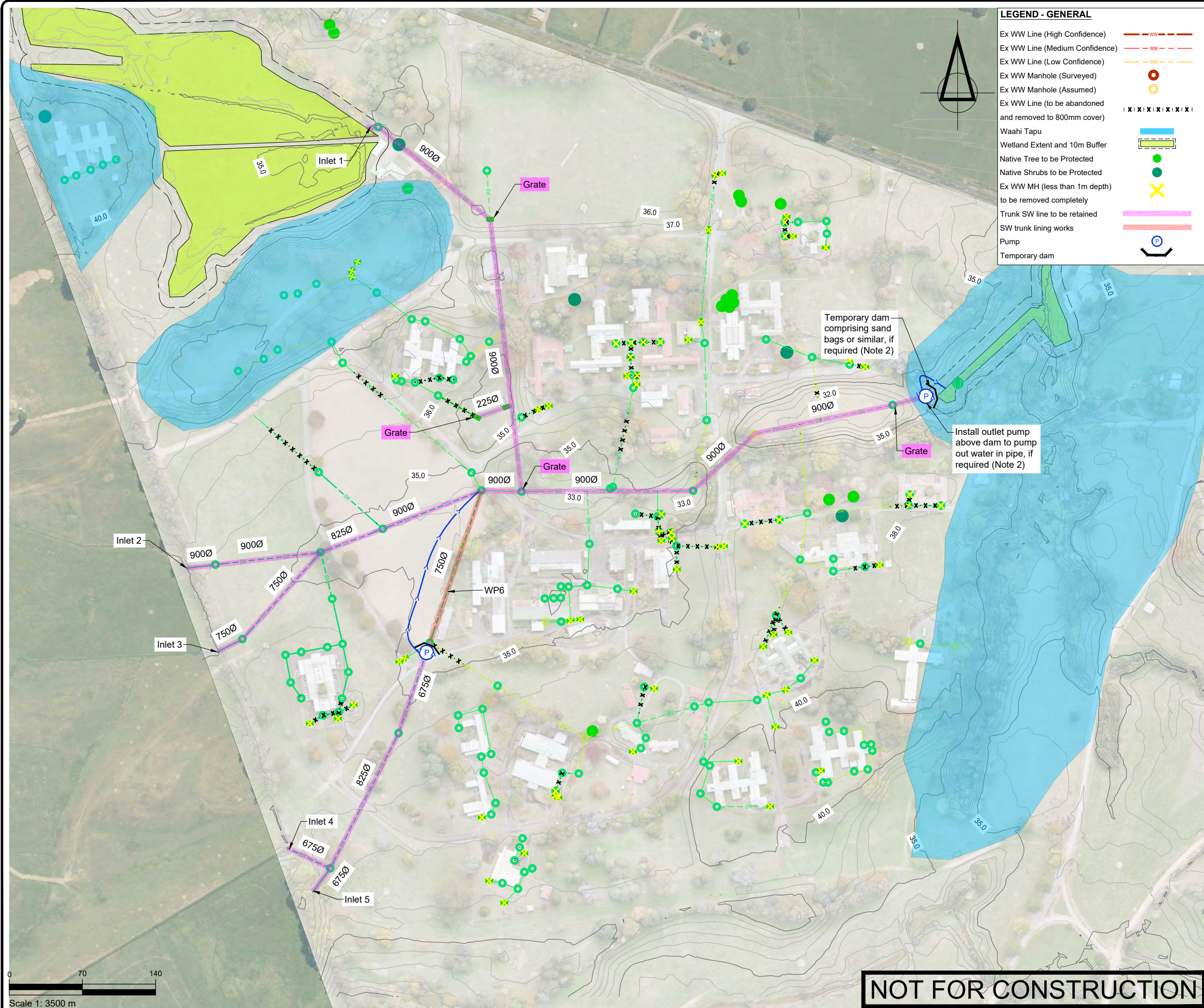
AUCKLAND 09 278 7078
HAWKE'S BAY 06 211 2766
CHRISTCHURCH 03 358 5936
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DRAWING No	33205/PL104
REVISION	A

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LEGEND - GENERAL

- Ex WW Line (High Confidence) ————
- Ex WW Line (Medium Confidence) - - - -
- Ex WW Line (Low Confidence) - - - -
- Ex WW Manhole (Surveyed) ●
- Ex WW Manhole (Assumed) ○
- Ex WW Line (to be abandoned and removed to 800mm cover) |X|X|X|X|X|X|X|
- Waahi Tapu
- Wetland Extent and 10m Buffer
- Native Tree to be Protected ●
- Native Shrubs to be Protected ●
- Ex WW MH (less than 1m depth) to be removed completely X
- Trunk SW line to be retained ————
- SW trunk lining works ————
- Pump (P)
- Temporary dam

SURVEYED		APPROVED		DATE
DESIGNED	TB	01.06.23	SF 24.09.24	
DRAWN	FV	24.09.24		
CHECKED	SF	24.09.24		
REVISION	CHANGES		CHECKED	DATE
A	REVISED WP9		SF	07.11.24

- NOTES
- Indicative works packages labeled WP1, etc. These will be confirmed by contractor.
 - Downstream water level at Te Mawhai Rd measured to be 30.00m RL. Oct 2024. Temporary dam and pump at outlet may be able to be removed from WP3 onwards. To be confirmed on-site.

CLIENT
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PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 6 (WP6)



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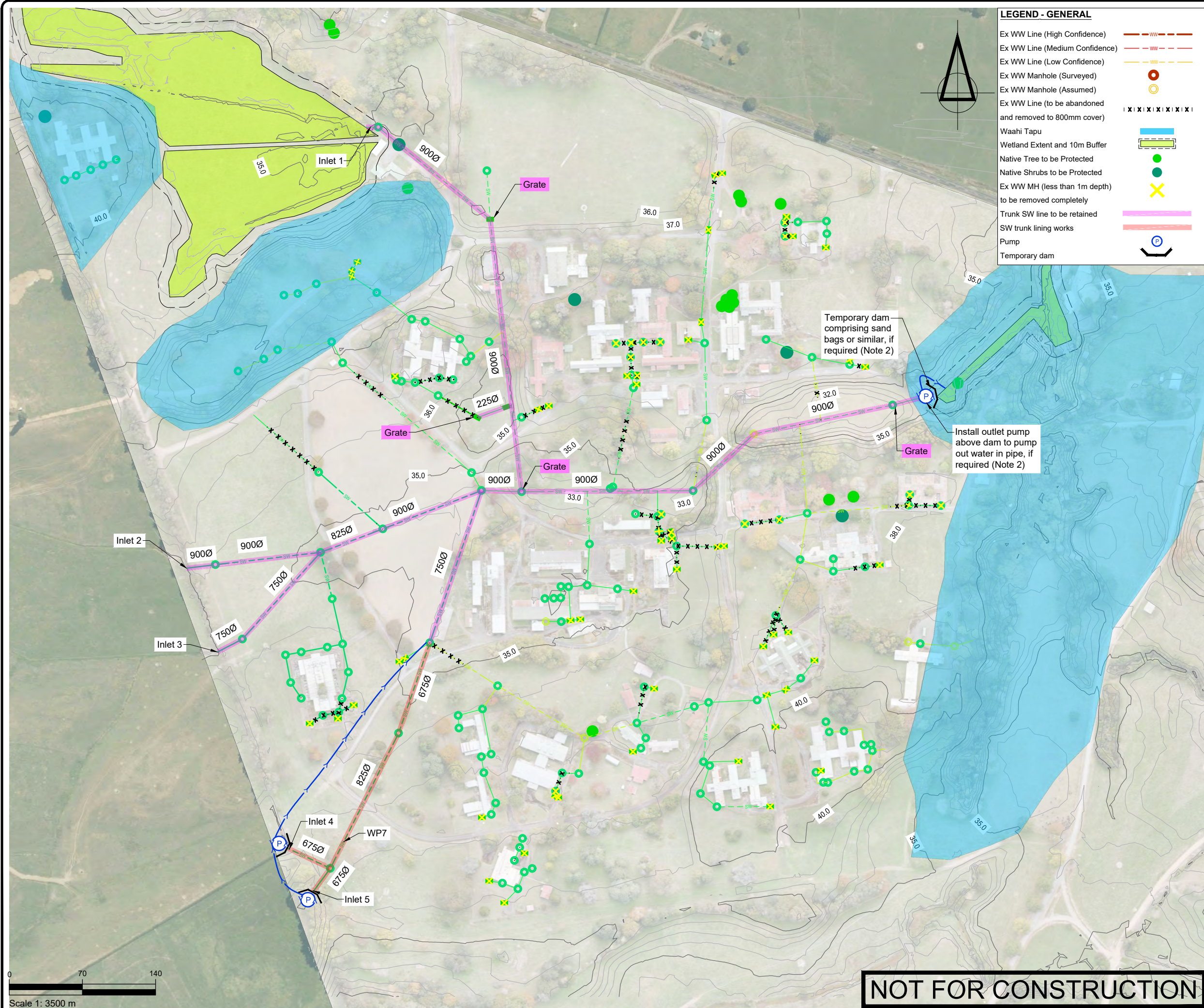
AUCKLAND	09 278 7078
HAWKE'S BAY	06 211 2766
CHRISTCHURCH	03 358 5936
BLenheim	03 428 3292
NELSON	03 222 1132

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DRAWING No	33205/PL105
REVISION	A

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SURVEYED	TB	01.06.23	APPROVED	SF	DATE
DESIGNED	FV	24.09.24			
DRAWN	SF	24.09.24			
CHECKED					
REVISION	CHANGES		CHECKED	DATE	
A	REVISED WP9		SF	07.11.24	

- NOTES
- Indicative works packages labeled WP1, etc. These will be confirmed by contractor.
 - Downstream water level at Te Mawhai Rd measured to be 30.00m RL. Oct 2024. Temporary dam and pump at outlet may be able to be removed from WP3 onwards. To be confirmed on-site.

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 7 (WP7)

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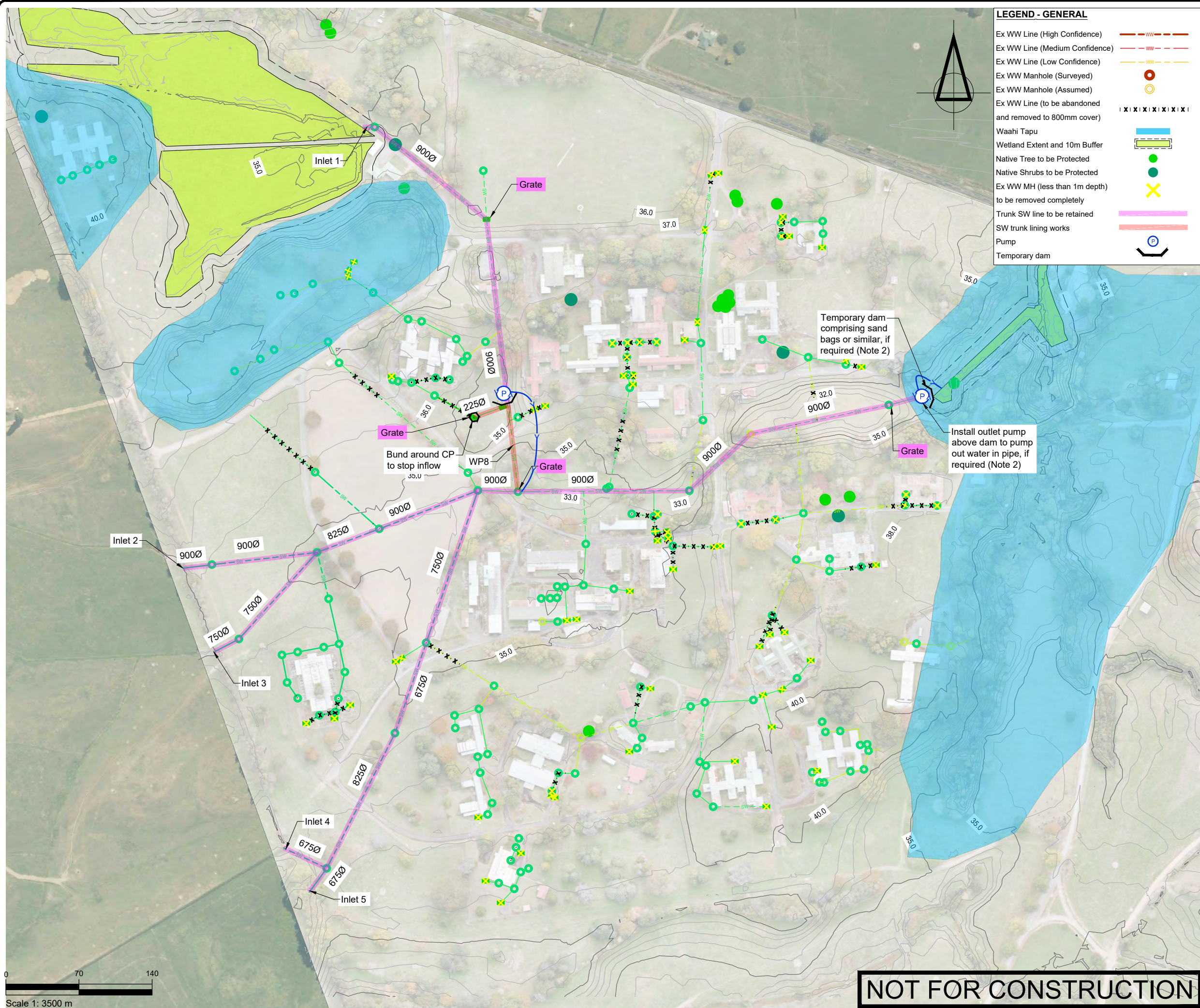
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SCALE 1:3500 (A3)

DRAWING No 33205/PL106 REVISION A

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LEGEND - GENERAL

Ex WW Line (High Confidence)	---
Ex WW Line (Medium Confidence)	---
Ex WW Line (Low Confidence)	---
Ex WW Manhole (Surveyed)	●
Ex WW Manhole (Assumed)	○
Ex WW Line (to be abandoned and removed to 800mm cover)	XXXXXX
Waahi Tapu	---
Wetland Extent and 10m Buffer	---
Native Tree to be Protected	●
Native Shrubs to be Protected	●
Ex WW MH (less than 1m depth) to be removed completely	X
Trunk SW line to be retained	---
SW trunk lining works	---
Pump	P
Temporary dam	---

SURVEYED	TB	01.06.23	APPROVED	SF	DATE
DRAWN	FV	24.09.24			
CHECKED	SF	24.09.24			
REVISION	CHANGES			CHECKED	DATE
A	REVISED WP9			SF	07.11.24

- NOTES
- Indicative works packages labeled WP1, etc. These will be confirmed by contractor.
 - Downstream water level at Te Mawhai Rd measured to be 30.00m RL. Oct 2024. Temporary dam and pump at outlet may be able to be removed from WP3 onwards. To be confirmed on-site.

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 8 (WP8)

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STATUS

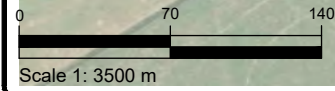
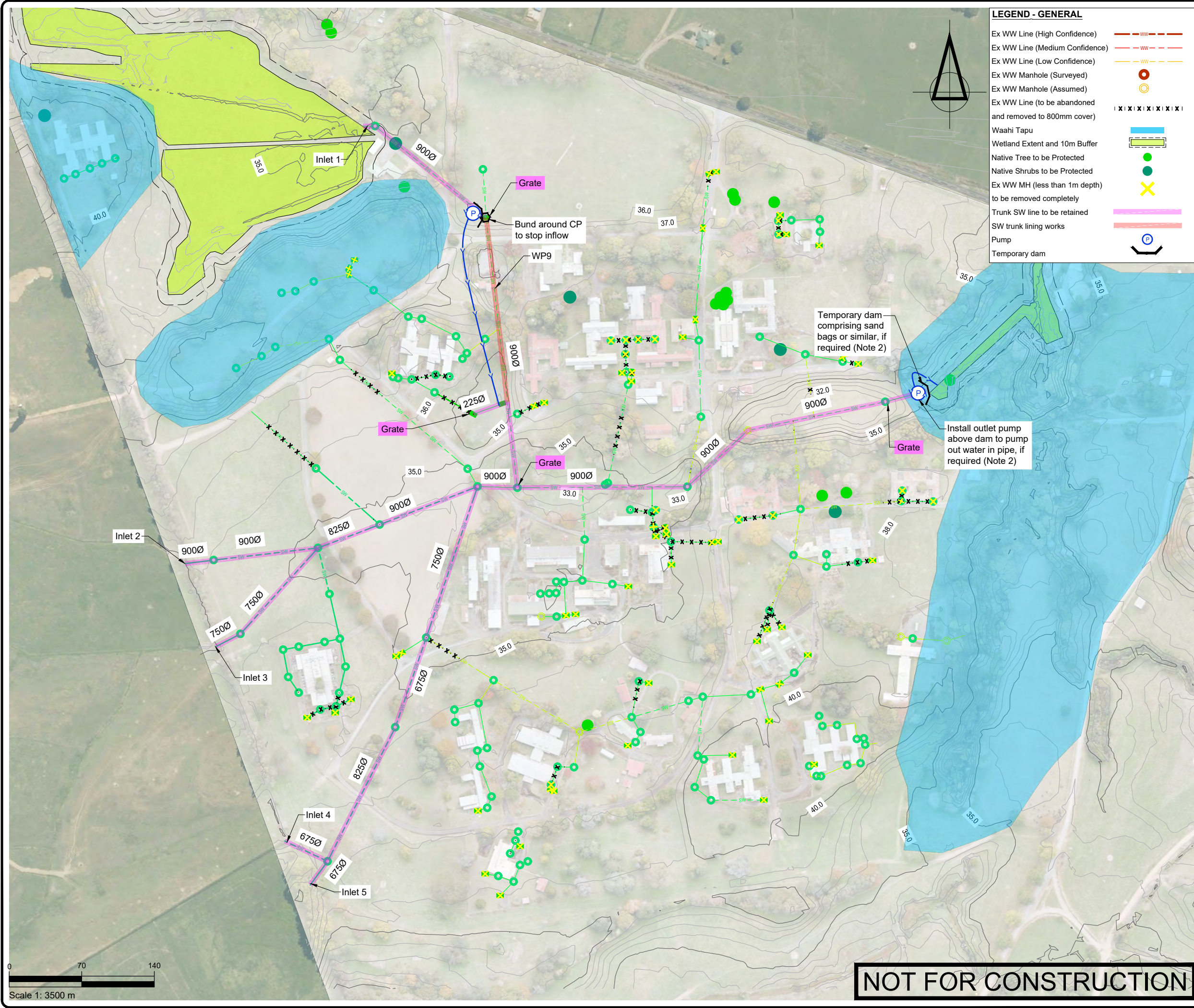
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DRAWING No 33205/PL107 REVISION A

P:\333 series\33205 Tokanui Infrastructure\03 Drawings\33205-PL108.dwg, I:\hira.5\31\2023 4:26 pm



LEGEND - GENERAL

- Ex WW Line (High Confidence) ————
- Ex WW Line (Medium Confidence) - - - -
- Ex WW Line (Low Confidence) ————
- Ex WW Manhole (Surveyed) ●
- Ex WW Manhole (Assumed) ○
- Ex WW Line (to be abandoned and removed to 800mm cover) |X|X|X|X|X|X|X|X|
- Waahi Tapu
- Wetland Extent and 10m Buffer
- Native Tree to be Protected ●
- Native Shrubs to be Protected ●
- Ex WW MH (less than 1m depth) to be removed completely X
- Trunk SW line to be retained ————
- SW trunk lining works ————
- Pump (P)
- Temporary dam

SURVEYED	TB	01.06.23	APPROVED	SF	DATE
DESIGNED	TB	01.06.23			
DRAWN	FV	24.09.24			
CHECKED	SF	24.09.24			
REVISION	CHANGES			CHECKED	DATE
A	REVISED WP9			SF	07.11.24

- NOTES
- Indicative works packages labeled WP1, etc. These will be confirmed by contractor.
 - Downstream water level at Te Mawhai Rd measured to be 30.00m RL. Oct 2024. Temporary dam and pump at outlet may be able to be removed from WP3 onwards. To be confirmed on-site.

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PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 9 (WP9)



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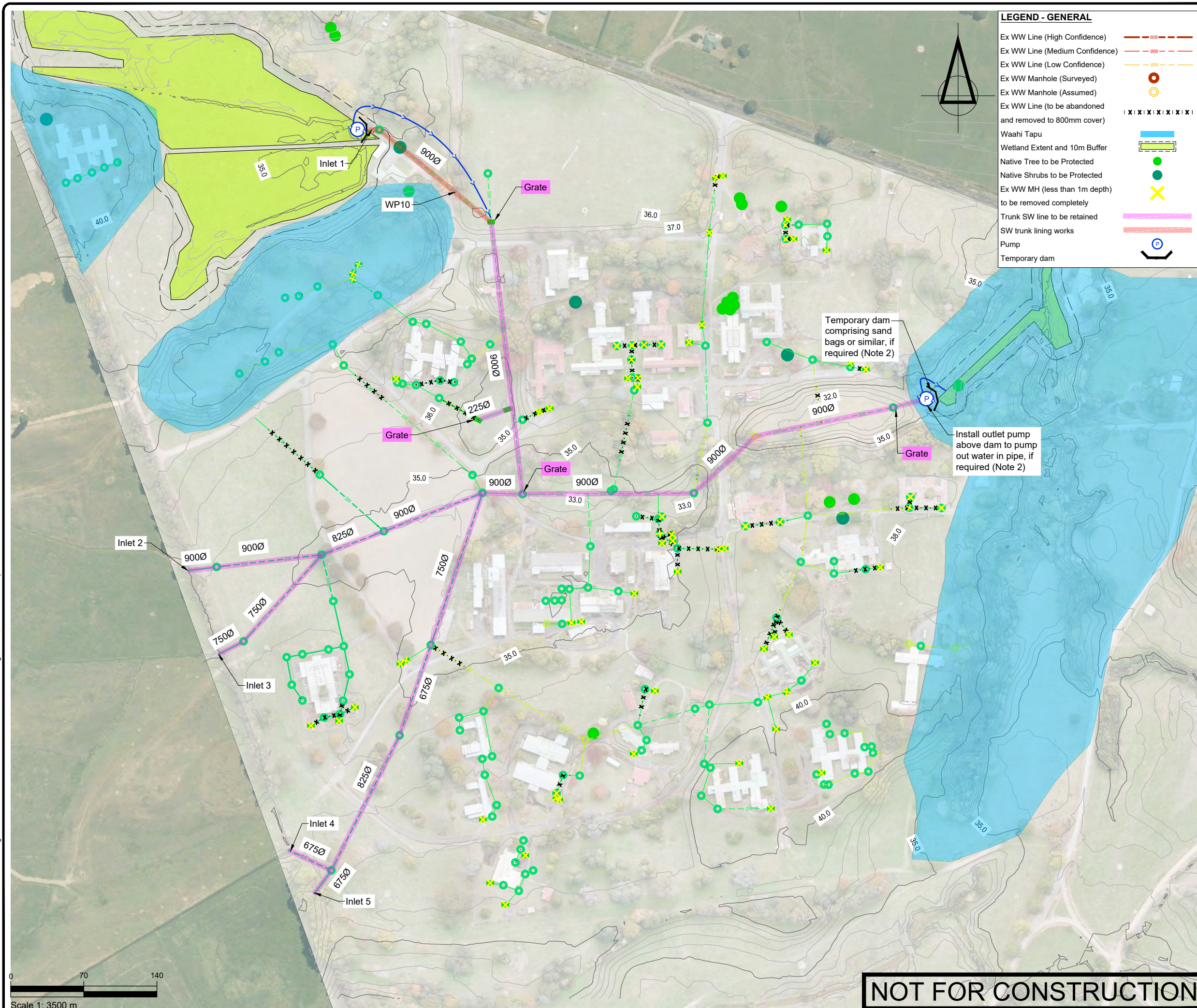
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DRAWING No	33205/PL108	REVISION	A

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NOTES

1. Indicative works packages labeled WP1, etc. These will be confirmed by contractor.
2. Downstream water level at Te Mahwai Rd measured to be 30.00m RL. Oct 2024. Temporary dam and pump at outlet may be able to be removed from WP3 onwards. To be confirmed on-site.

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 10
(WP10)

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DRAWING No	33205/PL 109 REVISION A

TOITŪ TE WHENUA – LAND INFORMATION NEW
ZEALAND

FORMER TOKANUI HOSPITAL DEMOLITION AND REMEDIATION

33097

REMEDIAL ACTION PLAN

CONTAMINATED SOIL

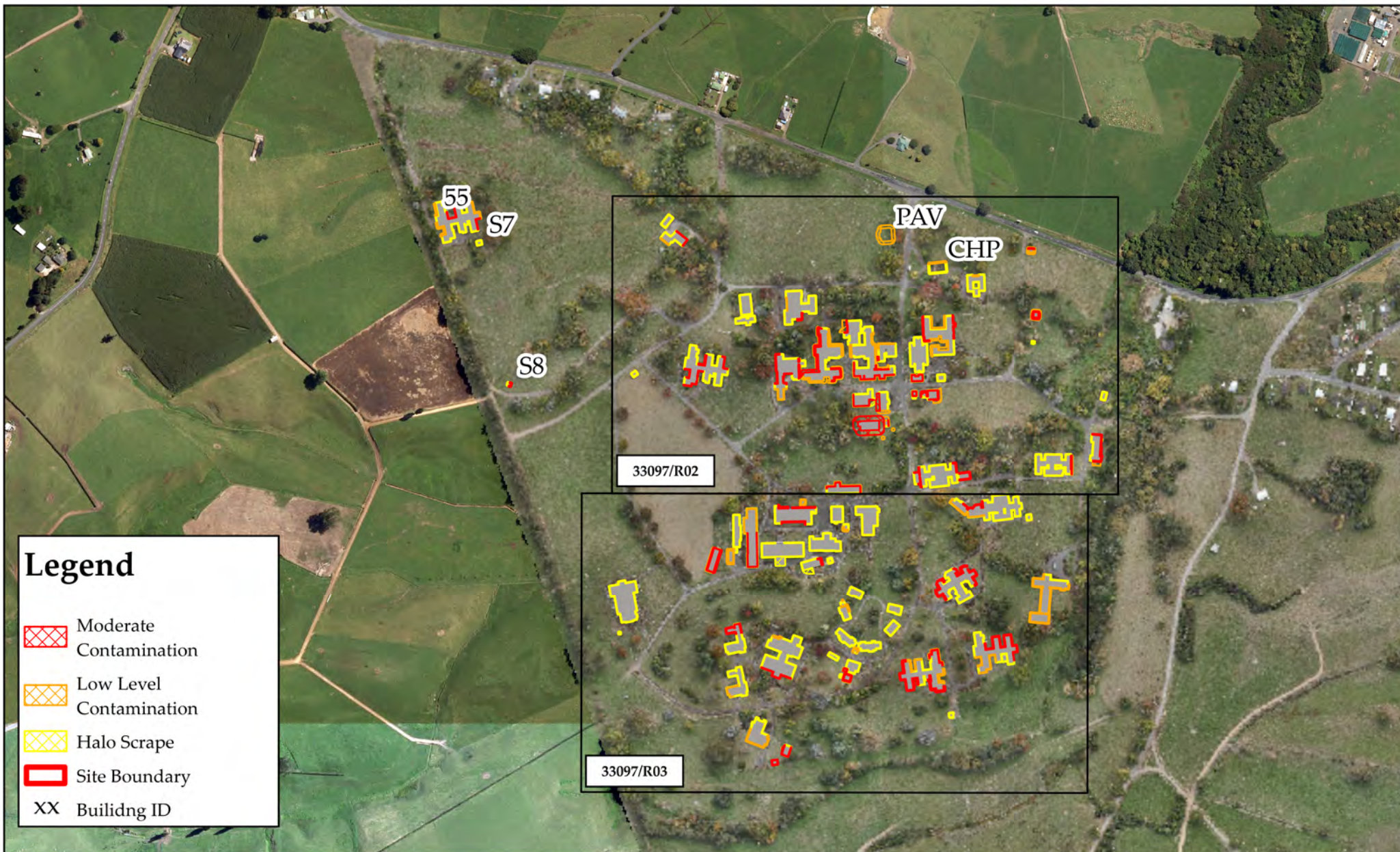
4/04/2025

REVISION 3 - DWG Updates

Please note: Remedial Areas that overlap with Roding
will need to be assessed onsite with SQEP



List of Drawings					
Drawing	Drawing Title	Revision	Drawing	Drawing Title	Revision
33097/R01	Site Layout	B	33097/R31	B53 & B54	B
33097/R02	Site Layout	B	33097/R32	B55 & S7	B
33097/R03	Site Layout	A	33097/R33	B56	B
33097/R04	B01, B09 & S2	B	33097/R34	B57 & Pool Shed	B
33097/R05	B02	B	33097/R35	B58	B
33097/R06	B03 & CHP	B	33097/R36	B59, B60 & B61	C
33097/R07	B05, B06, B07 & B08	B	33097/R37	B62	B
33097/R08	B10 & B11	B	33097/R38	B63	B
33097/R09	B12	B	33097/R39	B65	B
33097/R10	B13	B	33097/R40	B66 & B67	B
33097/R11	B14 & B15	B	33097/R41	B68	A
33097/R12	B16, B17, B18 & B19	C	33097/R42	B69 & S4	B
33097/R13	B20, B21 & B22	B	33097/R43	B70	B
33097/R14	B23	B	33097/R44	B71	B
33097/R15	B24	B	33097/R45	B73 & B74	B
33097/R16	B25	A	33097/R46	B75 & B76	A
33097/R17	B26	A	33097/R47	PAV	A
33097/R18	B27, B28 & S3	B	33097/R48	S1	A
33097/R19	B29	A	33097/R49	S6	A
33097/R20	B30 & B31	B	33097/R50	S8	A
33097/R21	B33	A	33097/R51	B32	B
33097/R22	B34 & B35	B	33097/R52	NBA Location Plan	B
33097/R23	B36, B37, B38 & B39	B	33097/R53	NBA (Area I - Topsoil)	B
33097/R24	B40, B41, B42 & B47	B	33097/R54	NBA (Area I - Fill)	B
33097/R25	B43, B44, B77	B	33097/R55	NBA (Culvert 2 Embankment)	B
33097/R26	B45 & B46	B	33097/R56	NBA (Former WWTP)	B
33097/R27	B48	B	33097/R57	NBA (Agricultural Area)	B
33097/R28	B49	B	33097/R58	NBA (Demolished Structure)	B
33097/R29	B50	B	33097/R59	NBA (Area North of B26)	A
33097/R30	B51, B52 & S5	B			



Legend

- Moderate Contamination
- Low Level Contamination
- Halo Scrape
- Site Boundary
- XX Building ID

33097/R02

33097/R03

Drawing 33097/R01: Remedial Action Plan - Site Layout

Toitū Te Whenua Land Information New Zealand
 Former Tokanui Hospital Demolition and Remediation Project
 Remedial Action Plan

Date: 04/04/2025
 Revision No: B
 Drawn: EB
 Reviewed: SF



0 55 110 220 330 440 550
 Meters





Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS (BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
S2,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B01	Halo Scrape	158.9	0.1	15.9
B09	Halo Scrape	36.5		3.6
S2	R1	24.9	0.3	7.5
S2	Halo Scrape	26.2	0.1	2.6
Total Area/Volume		246.5	-	29.6

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



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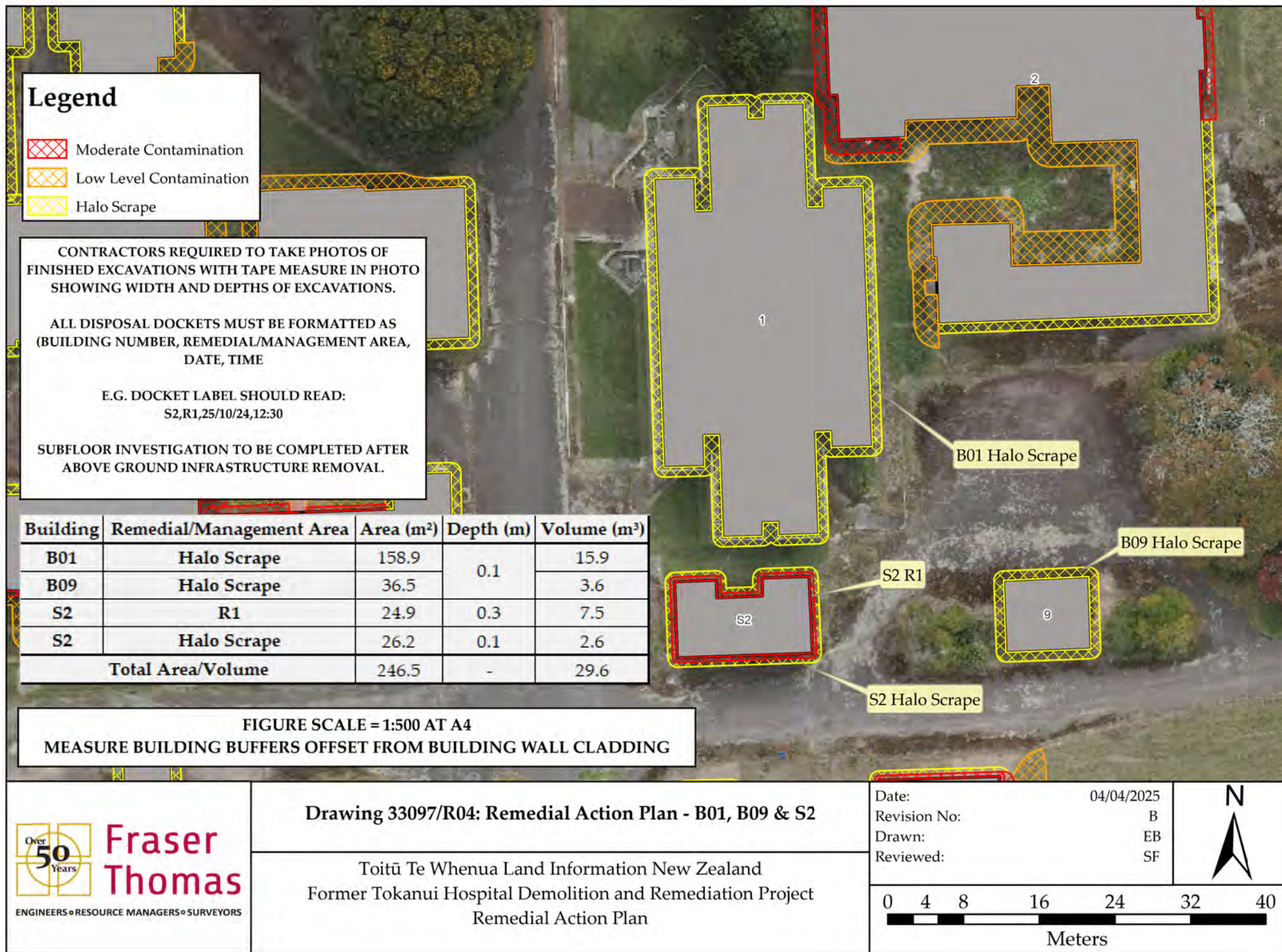
Drawing 33097/R04: Remedial Action Plan - B01, B09 & S2

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



0 4 8 16 24 32 40
Meters



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS
(BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA,
DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B02,M1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER
ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B02	R1	60.53	0.3	18.2
	R2	51.1	0.4	20.4
	M1	61.3	0.25	15.3
	M2	214.8	0.7	150.3
	Halo Scrape 1	72.4	0.1	7.2
	Halo Scrape 2	50.1	0.1	5.0
Total Area/Volume		510.1	-	216.5

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



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Drawing 33097/R05: Remedial Action Plan - B02

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



0 4 8 16 24 32 40
Meters

Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:

B03,M1,25/10/24,12:30

CHP,M1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B03	M1	13.2	0.2	2.6
	Halo Scape 1	32.1	0.1	3.2
	Halo Scape 2	96.9	0.1	9.7
CHP	M1	47.9	0.25	12.0
	Halo Scape 1	96.6	0.1	9.7
Total Area/Volume		286.6	-	37.2

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

CHP M1

CHP Halo Scape 1

CHP

CHP

175.3262042°E, 38.06322424°S

B03 M1

B03 Halo Scape 1

B03 Halo Scape 2



CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

I.E. DOCKET LABEL SHOULD READ:
B05,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B05	R1	11.4	0.35	4.0
	Halo Scrape	13.0	0.1	1.3
B06	Halo Scrape	12.0	0.1	1.2
B07	R1	40.3	0.35	14.1
	Halo Scrape	9.2	0.1	0.9
B08	R1	38.0	0.2	7.6
	M1	86.3	0.3	25.9
	Halo Scrape	15.8	0.1	1.6
Total Area/Volume		226.0	-	56.6

FIGURE SCALE = 1:250 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



Legend

- Moderate Contamination
- Low Level Contamination
- Halo Scrape



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/ MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B10,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m²)	Depth (m)	Volume (m³)
B10	R1	10.2	0.2	2.0
	M1	41.2	0.2	8.2
	Halo Scrape	69.7	0.1	7.0
B11	R1	19.6	0.3	5.9
	R2	49.3	0.15	7.4
	M1	98.5	0.35	34.5
	M2	47.7	0.3	14.3
	M3	88.4	0.35	30.9
	M4	42.4	0.3	12.7
	Halo Scrape 1	65.3	0.1	6.5
	Halo Scrape 2	22.3	0.1	2.2
	Halo Scrape 3	68.2	0.1	6.8
Total Area/Volume		622.8	-	138.6

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



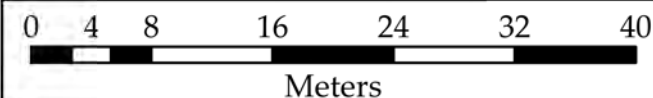
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Drawing 33097/R08: Remedial Action Plan - B10 & B11

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B12,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B12	R1	21.5	0.3	6.5
	M1	106.5	0.3	31.9
	Halo Scrape 1	64.4	0.1	6.4
	Halo Scrape 2	31.6	0.1	3.2
Total Area/Volume		223.9	-	48.0

FIGURE SCALE = 1:250 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



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Thomas**

Drawing 33097/R09: Remedial Action Plan - B12

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



B12 Halo Scrape 1

B12 R1

B12 M1

12

B12 Halo Scrape 2

Legend

	Moderate Contamination
	Low Level Contamination
	Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS (BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B13,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

*REFER TO CALLOUT FOR REMEDIAL DEPTHS

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B13	R1	58.9	0.35-0.5*	29.5
	R2	261.1	0.7	182.8
	M1	154.4	0.4	61.8
	M2	235.3	0.25-0.35*	82.4
	M3	65.6	0.25-0.4*	26.2
	Halo Scrape 1	10.9	0.1	1.1
	Halo Scrape 2	47.8	0.1	4.8
Total Area/Volume		834	-	388.5

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

B13 M3 UAW RD = 0.4m

B13 Halo Scrape 1

B13 M1

B13 R2
CBLW

B13 Halo Scrape 2

B13 M2 UAW RD = 0.25m

B13 M3 UAW RD = 0.25m

B13 R1 UAW RD = 0.5m

B13 R1 UAW RD = 0.35m

B13 M2 UAW RD = 0.3m

B13 M2 UAW RD = 0.35m

B13 M2 UAW RD = 0.3m



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/ MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B15,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B14	Halo Scrape	20.3	0.1	2.0
B15	R1	41.8	0.3	12.6
	R2	29.1	0.2	5.8
	R3	8.3	0.5	4.1
	R4	37.3	0.5	18.7
	R5	28.2	0.3	8.5
	M1	18.3	0.5	9.1
	M2	17.8	0.2	3.6
	M3	21.8	0.2	4.4
	Halo Scrape 1	31.1	0.1	3.1
	Halo Scrape 2	17.7	0.1	1.8
	Halo Scrape 3	5.3	0.1	0.5
	Halo Scrape 4	3.4	0.1	0.3
	Halo Scrape 5	8.8	0.1	0.9
Total Area/Volume		289.3	-	75.4

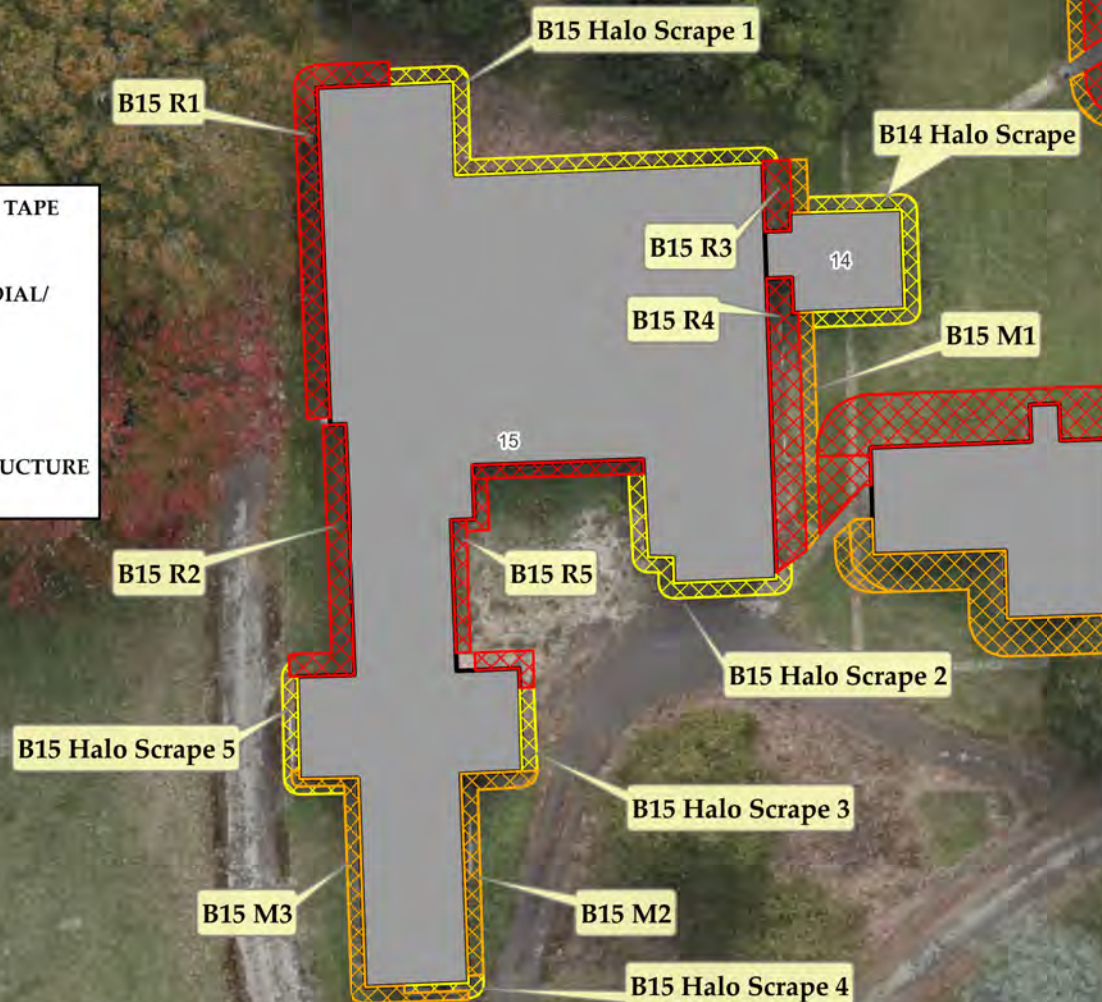


FIGURE SCALE = 1:500 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



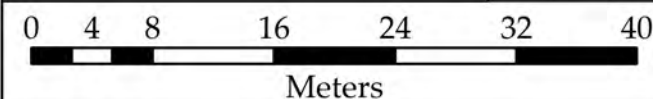
**Fraser
Thomas**

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Drawing 33097/R11: Remedial Action Plan - B14 & B15

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B16,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B16	R1	25.7	0.35	9.0
	Halo Scrape	123.7	0.10	12.4
B17	R1	104.9	0.20	21.0
	M1	52.7	0.15	7.9
	Halo Scrape	40.7	0.10	4.1
B18	R1	654.5	0.55	360.0
B19	R1	4.1	0.10	0.4
	M1	47.2	0.20	9.4
	M2	12.6	0.15	1.9
	M3	14.1	0.50	7.0
	Halo Scrape	8.3	0.10	0.8
Total Area/Volume		1088.3	-	433.9

B16 Halo Scrape

B16 R1

16

B17 R1

17

B17 Halo Scrape

B17 M1

B18 R1

18

B19 M1

B19 R1

B19 Halo Scrape

19

B19 M3

175.3254433°E, 38.0653272°S

B19 M2

175.3255929°E, 38.0652216°S

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



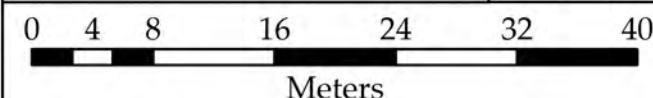
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Drawing 33097/R12: Remedial Action Plan - B16, B17, B18 & B19

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: C
Drawn: EB
Reviewed: SF



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B21,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B20	Halo Scrape	19.9	0.1	2.0
B21	R1	22.8	0.35	8.0
	R2	22.9	0.35	8.0
	R3	25.7	0.2	5.1
	Halo Scrape 1	74.0	0.1	7.4
	Halo Scrape 2	118.3	0.1	11.8
B22	Halo Scrape	10.2	0.1	1.0
	R1	56.2	0.2	11.2
Total Area/Volume		349.9	-	54.6



FIGURE SCALE = 1:500 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS
(BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA,
DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B23,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER
ABOVE GROUND INFRASTRUCTURE REMOVAL.

B23 Halo Scape 1

B23 R1

B23 M1

B23 Halo Scape 2

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B23	R1	32.7	0.2	6.5
	M1	26.1	0.2	5.2
	Halo Scape 1	210.6	0.1	21.1
	Halo Scape 2	25.7	0.1	2.6
Total Area/Volume		295.2	-	35.4

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



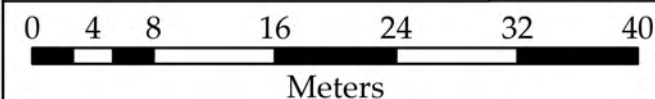
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Thomas**

Drawing 33097/R14: Remedial Action Plan - B23

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B24,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B24	R1	99.2	0.35	34.7
	M1	52.8	0.3	15.8
	Halo Scrape 1	43.3	0.1	4.3
	Halo Scrape 2	2.8	0.1	0.3
Total Area/Volume		198.1	-	55.2

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

B24 Halo Scrape 1

B24 Halo Scrape 2

B24 R1

B24 M1



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/ MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B25,HS,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B25	Halo Scrape	32.5	0.1	3.3
Total Area/Volume		32.5	-	3.3

FIGURE SCALE = 1:250 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



B25 Halo Scrape



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B26,M1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B26	M1	335.6	0.2	67.1
	Halo Scrape	43.6	0.1	4.4
Total Area/Volume		379.2	-	71.5

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B27,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B27	R1	68.1	0.15	10.2
	M1	52.4	0.1	5.2
	Halo Scrape 1	230.6	0.1	23.1
	Halo Scrape 2	12.2	0.1	1.2
B28	Halo Scrape	28.8	0.1	2.9
S3	Halo Scrape	27.0	0.1	2.7
Total Area/Volume		419.2	-	45.3

Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

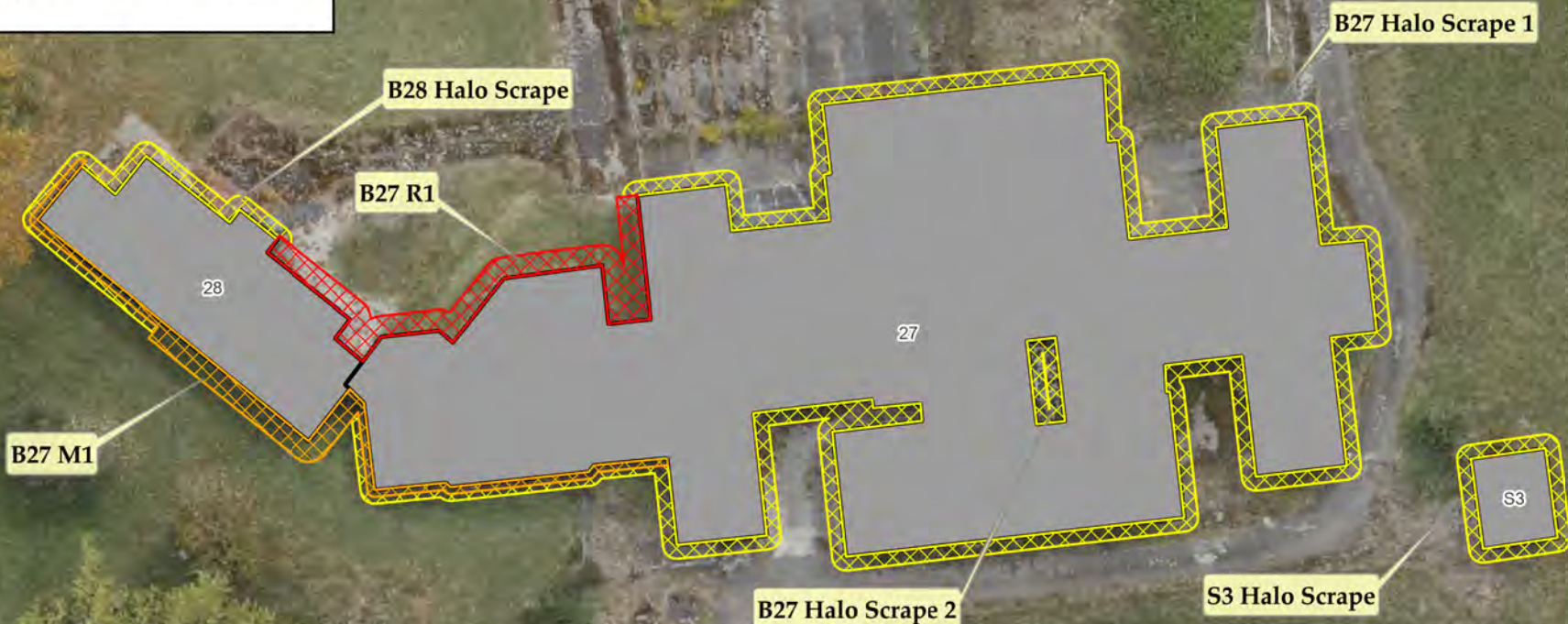


FIGURE SCALE = 1:500 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



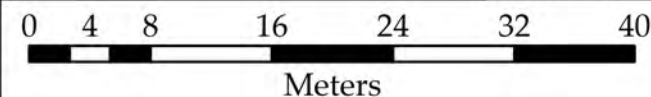
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Thomas**

Drawing 33097/R18: Remedial Action Plan - B27, B28 & S3

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B29	R1	103.8	0.5	51.9
	R2	15.2	0.3	4.6
	R3	31.2	0.5	15.6
	R4	47.1	0.3	14.1
	R5	50.9	0.35	17.8
	R6	13.7	0.35	4.8
	Halo Scrape 1	41.6	0.1	4.2
	Halo Scrape 2	131.5	0.1	13.2
Total Area/Volume		434.9	-	126.1

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B29,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

B29 Halo Scrape 1

B29 R3
CBLW

B29 R4
ARW

B29 R5
ARW

B29 R6
ARW

B29 Halo Scrape 2

B29 R1
CBLW

FIGURE SCALE = 1:500 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

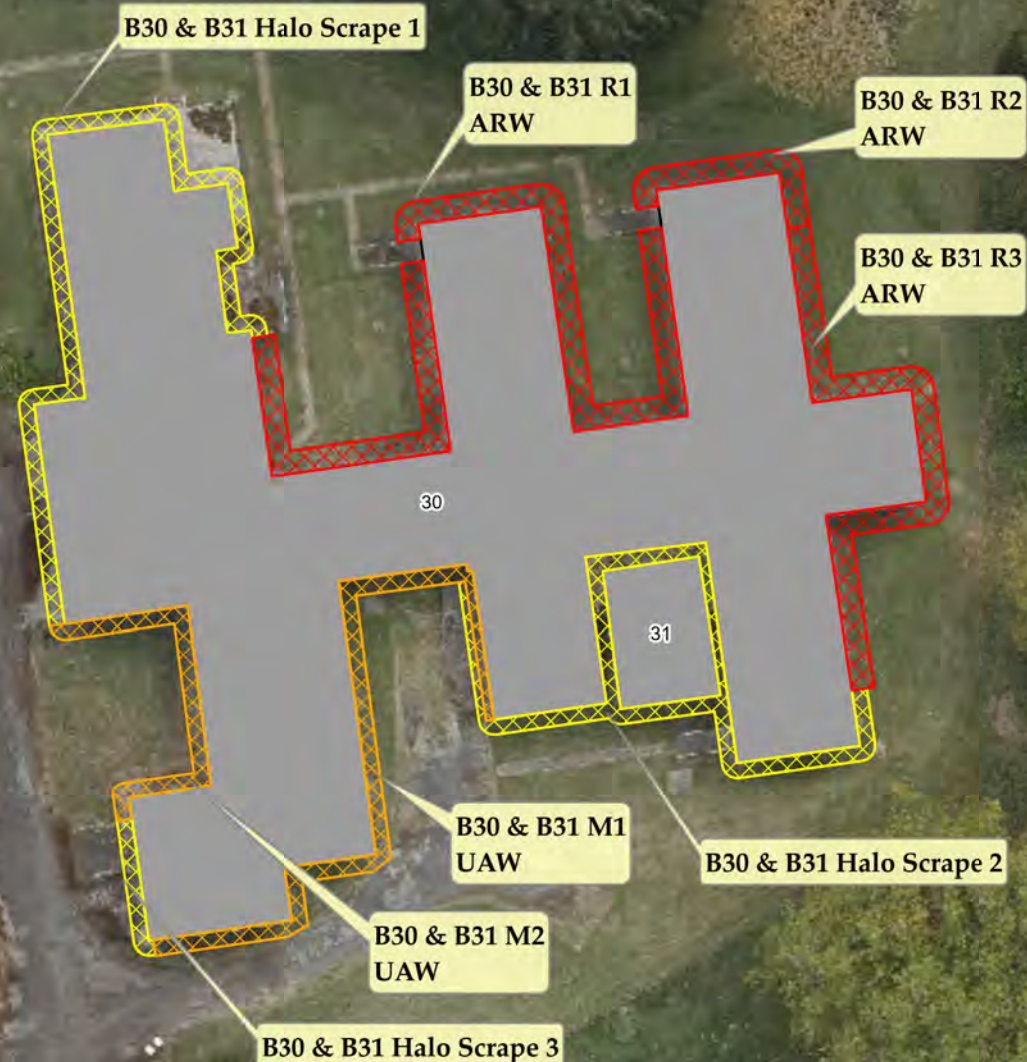
E.G. DOCKET LABEL SHOULD READ:
B30,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B30 & B31	R1	111.9	0.3	33.6
	R2	22.9	0.35	8.0
	R3	65.0	0.35	22.8
	M1	51.7	0.15	7.8
	M2	27.1	0.4	10.8
	Halo Scape 1	65.7	0.1	6.6
	Halo Scape 2	58.2	0.1	5.8
	Halo Scape 3	9.2	0.1	0.9
	Total Area/Volume	411.8	-	96.3

FIGURE SCALE = 1:500 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS (BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B33,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m²)	Depth (m)	Volume (m³)
B33	R1	183.4	0.25	45.8
	R2	120.8	0.25	30.2
	R3	47.4	0.6	28.4
	M1	13.9	0.25	3.5
	M2	25.8	0.25	6.5
	M3	23.9	0.25	6.0
	M4	48.5	0.25	12.1
	M5	82.4	0.2	16.5
	Halo Scrape 1	7.7	0.1	0.8
	Halo Scrape 2	47.9	0.1	4.8
	Halo Scrape 3	28.5	0.1	2.9
	Total Area/Volume	630.0	-	157.3

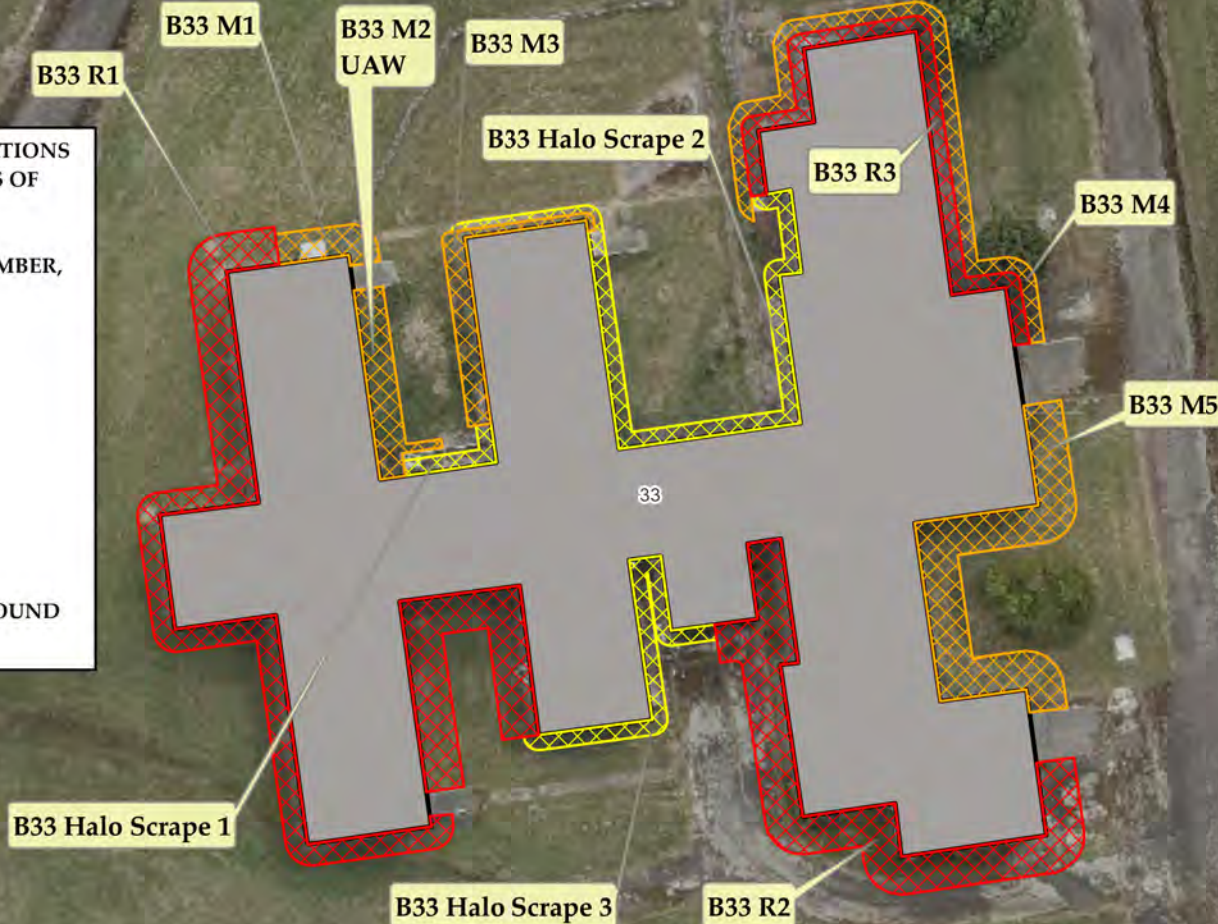


FIGURE SCALE = 1:500 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B35,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B34	Halo Scrape	13.6	0.1	1.4
B35	R1	70.4	0.2	14.1
	M1	58.9	0.2	11.8
Total Area/Volume		143.0	-	27.2

FIGURE SCALE = 1:500 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



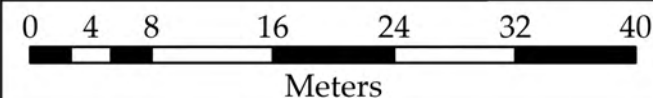
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Thomas**

Drawing 33097/R22: Remedial Action Plan - B34 & B35

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B36	Halo Scrape	62.5	0.1	6.3
B37	R1	13.4	0.3	4.0
	Halo Scrape	4.7	0.1	0.5
B38	R1	53.3	0.1	5.3
	M1	10.4	0.2	2.1
B39	Halo Scrape	14.8	0.1	1.5
Total Area/Volume		159	-	19.6

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

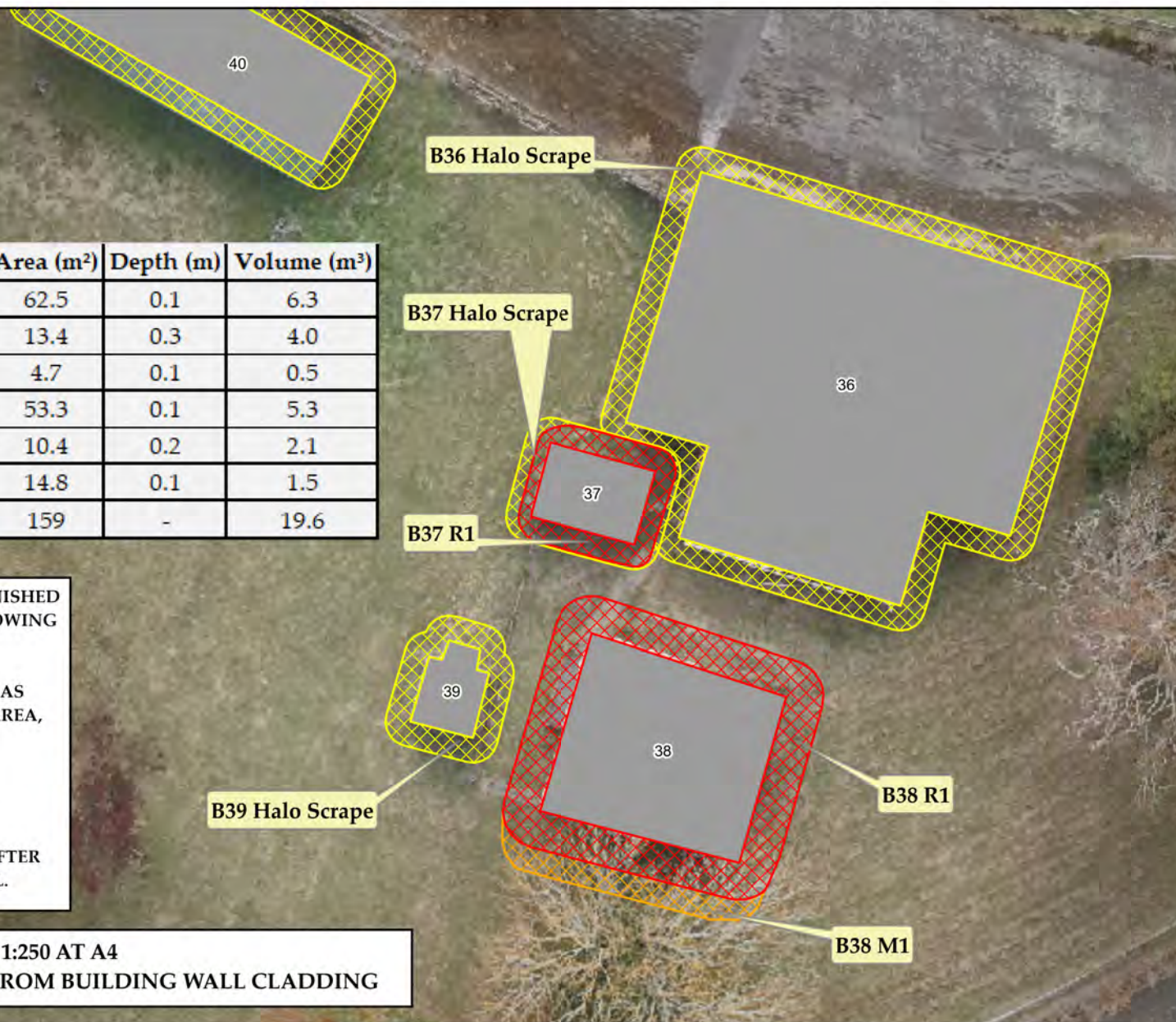
ALL DISPOSAL DOCKETS MUST BE FORMATTED AS
(BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA,
DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B38,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER
ABOVE GROUND INFRASTRUCTURE REMOVAL.

FIGURE SCALE = 1:250 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



Legend

	Moderate Contamination
	Low Level Contamination
	Halo Scape

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B40	Halo Scape	37.7	0.1	3.8
B41	M1	28.2	0.3	8.5
	Halo Scape	6.6	0.1	0.7
B42	Halo Scape	84.1	0.1	8.4
B47	Halo Scape	87.4	0.1	8.7
Total Area/Volume		244.0	-	30.0

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B40,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

B40 Halo Scape

B42 Halo Scape

B47 Halo Scape

B41 M1

B41 Halo Scape



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B43,M1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B43 & B77	M1	37.1	0.2	7.4
	M2	4.1	0.7	2.8
	Halo Scrape 1	40.9	0.1	4.1
	Halo Scrape 2	13.4	0.1	1.3
B44	Halo Scrape	58.0	0.1	5.8
Total Area/Volume		153.4	-	21.5

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

B44 Halo Scrape

B43 & B77 M2
175.3248844°E, 38.0673027°S

B43 & B77 Halo Scrape 2

B43 & B77 M1

B43 & B77 Halo Scrape 1



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B45,HS,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B45	Halo Scrape	57.8	0.1	5.8
B46	Halo Scrape	58.6	0.1	5.9
Total Area/Volume		116.3	-	11.6

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



**Fraser
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Drawing 33097/R26: Remedial Action Plan - B45 & B46

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



0 4 8 16 24 32 40
Meters

Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B48,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B48	R1	54.9	0.1	5.5
	M1	32.1	0.3	9.6
	Halo Scrape 1	85.8	0.1	8.6
	Halo Scrape 2	129.1	0.1	12.9
Total Area/Volume		302.0	-	36.6

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS
BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA,
DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B49,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER
ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B49	R1	75.0	0.35	26.2
	Halo Scrape 1	97.6	0.1	9.8
	Halo Scrape 2	5.0	0.1	0.5
Total Area/Volume		177.6	-	36.5

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B50,M1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B50	M1	17.5	0.1	1.7
	Halo Scrape	139.0	0.1	13.9
Total Area/Volume		156.5	-	15.6

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

B50 M1

B50 Halo Scrape



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B59,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B51	M1	95.0	0.1	9.5
	Halo Scrape	66.1	0.1	6.6
B52	R1	34.7	0.2	6.9
	Halo Scrape 1	11.6	0.1	1.2
	Halo Scrape 2	1.9	0.1	0.2
S5	R1	28.9	0.1	2.9
Total Area/Volume		238.3	-	27.3

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B53,HS,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B53	Halo Scrape	184.8	0.1	18.5
B54	Halo Scrape	10.9	0.1	1.1
Total Area/Volume		195.7	-	19.6

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

B53 Halo Scrape

B54 Halo Scrape



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B55,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B55	R1	35.4	0.15	5.3
	R2	20.2	0.4	8.1
	M1	38.1	0.2	7.6
	M2	52.1	0.15	7.8
	M3	80.9	0.2	16.2
	Halo Scrape 1	57.8	0.1	5.8
	Halo Scrape 2	45.4	0.1	4.5
	Halo Scrape 3	125.0	0.1	12.5
S7	Halo Scrape	25.1	0.1	2.5
Total Area/Volume		480.1	-	70.3



FIGURE SCALE = 1:500 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



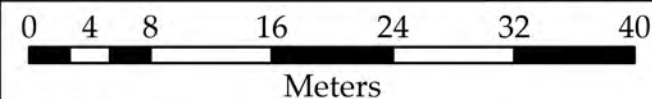
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**Fraser
Thomas**

Drawing 33097/R32: Remedial Action Plan - B55 & S7

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B56	R1	45.1	0.4	18.1
	R2	25.4	0.15	3.8
	R3	31.8	0.15	4.8
	R4	11.6	0.4	4.6
	R5	23.3	0.15	3.5
	Halo Scrape 1	48.4	0.1	4.8
	Halo Scrape 2	99.3	0.1	9.9
	Halo Scrape 3	3.8	0.1	0.4
	Halo Scrape 4	12.0	0.1	1.2
	Halo Scrape 5	77.1	0.1	7.7
Total Area/Volume		377.9	-	58.8

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B56,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



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Drawing 33097/R33: Remedial Action Plan - B56

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



0 4 8 16 24 32 40
Meters

Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

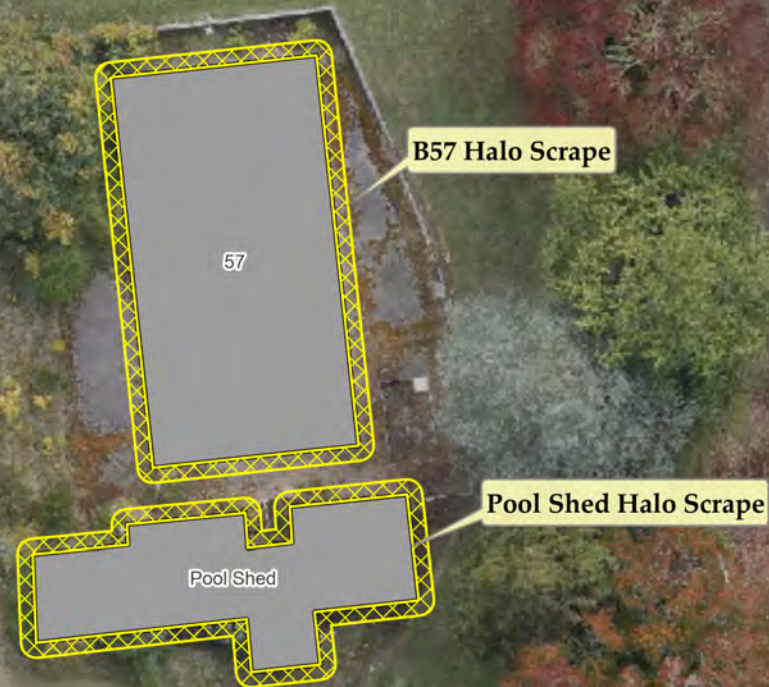
E.G. DOCKET LABEL SHOULD READ:
B57,HS,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B57	Halo Scrape	82.4	0.1	8.2
Pool Shed	Halo Scrape	78.4	0.1	7.8
Total Area/Volume		160.8	-	16.1

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS (BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B58,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B58	R1	30.4	0.25	7.6
	M1	10.1	0.4	4.0
	Halo Scrape 1	53.2	0.1	5.3
	Halo Scrape 2	122.2	0.1	12.2
Total Area/Volume		215.9	-	29.2

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

R58 M1
UAW

B58 Halo Scrape 1

B58 Halo Scrape 2

R58 R1
CBLW

Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape



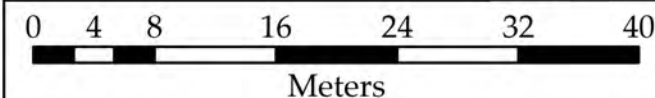
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**Fraser
Thomas**

Drawing 33097/R35: Remedial Action Plan - B58

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B59	R1	136.7	0.3	41.0
	R2	1.5	0.5	0.8
	M1	41.9	0.3	12.6
	Halo Scrape	3.2	0.1	0.3
B60	M1	100.0	0.2	20.0
B61	Halo Scrape	13.2	0.1	1.3
Total Area/Volume		296.4	-	76.0

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS (BUILDING NUMBER, REMEDIAL/ MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B59,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

FIGURE SCALE = 1:250 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B62,HS,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B62	Halo Scrape	105.4	0.1	10.5
Total Area/Volume		105.4	-	10.5

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

B62 Halo Scrape



CONTRACTORS REQUIRED TO TAKE PHOTOS
OF FINISHED EXCAVATIONS WITH TAPE
MEASURE IN PHOTO SHOWING WIDTH AND
DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED
AS BUILDING NUMBER, REMEDIAL/
MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B63,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED
AFTER ABOVE GROUND INFRASTRUCTURE
REMOVAL.

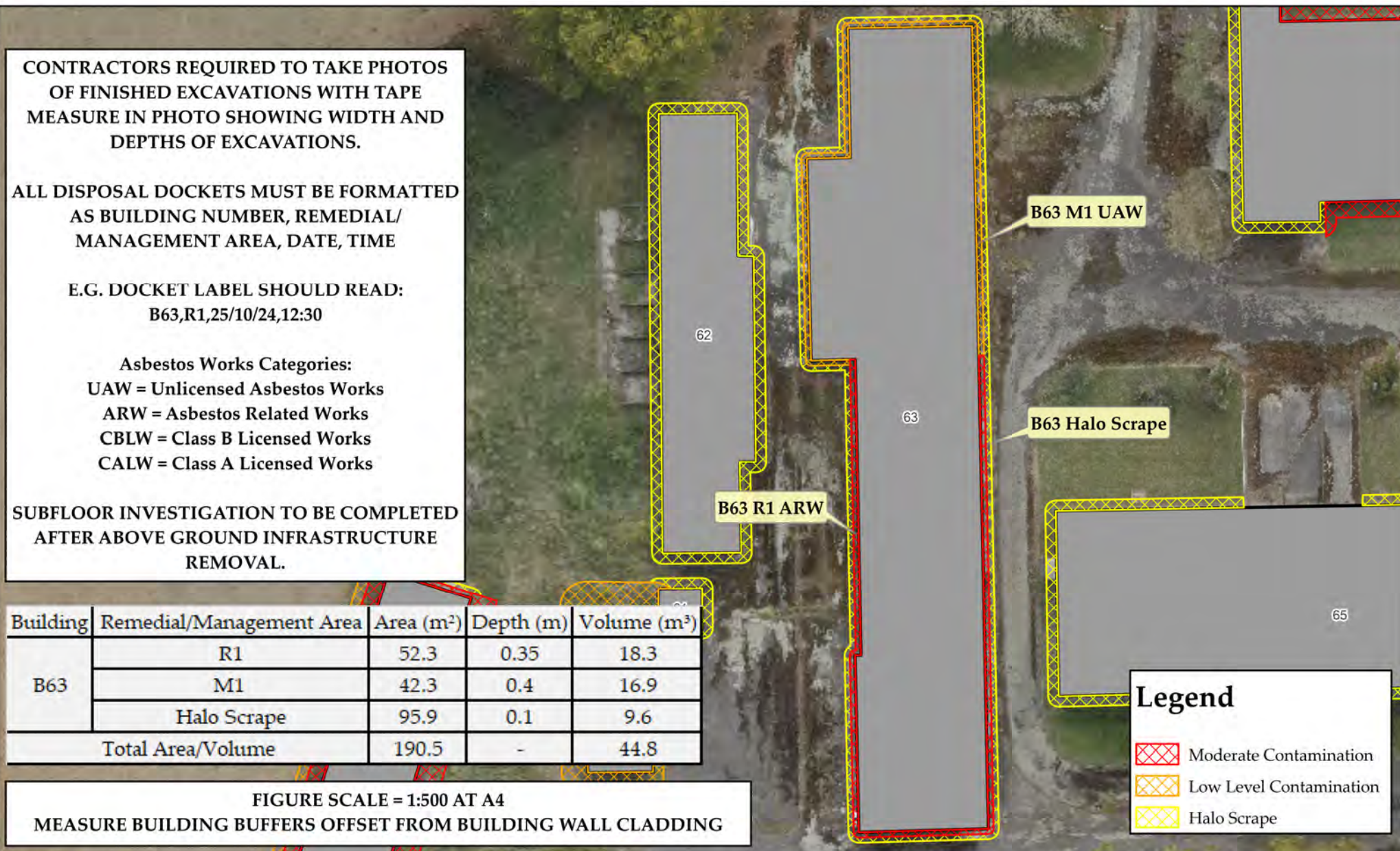
Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B63	R1	52.3	0.35	18.3
	M1	42.3	0.4	16.9
	Halo Scrape	95.9	0.1	9.6
Total Area/Volume		190.5	-	44.8

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B65,HS,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

B65 Halo Scrape

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B65	Halo Scrape	288.9	0.1	28.9
Total Area/Volume		288.9	-	28.9

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



**Fraser
Thomas**

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Drawing 33097/R39: Remedial Action Plan - B65

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 26/03/2025
Revision No: B
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Reviewed: SF



0 4 8 15 23 30 38
Meters

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS (BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B66,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

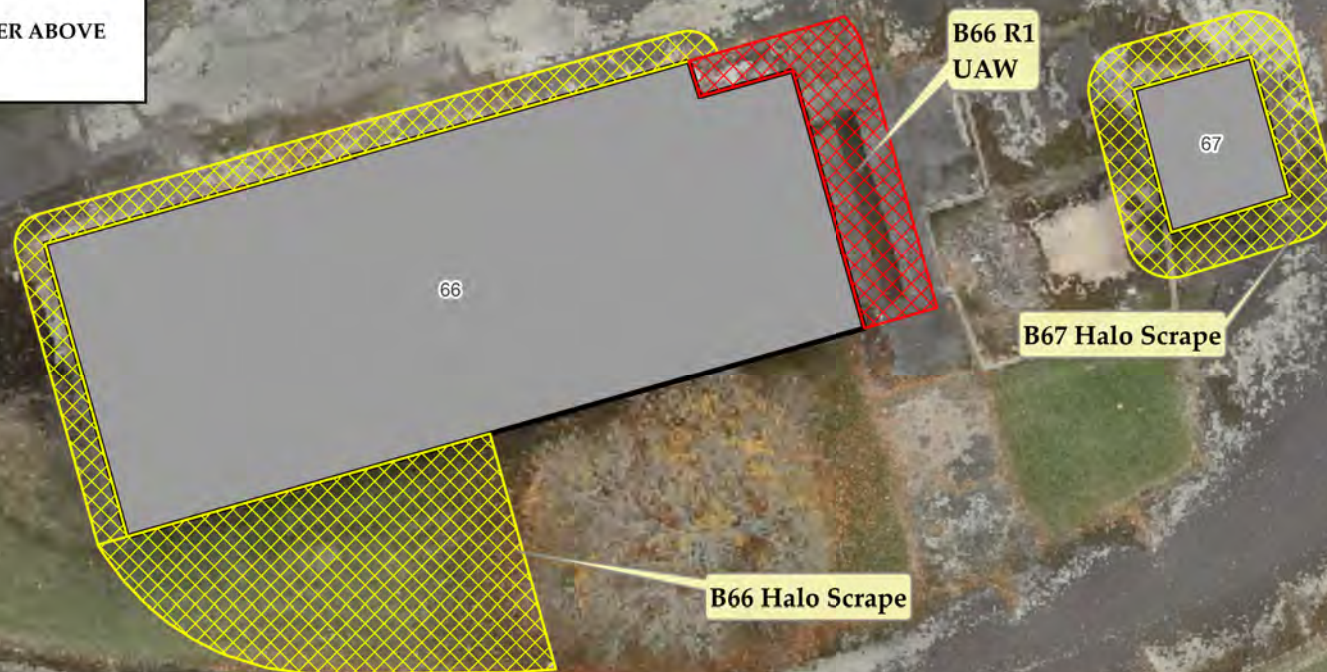
SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

FIGURE SCALE = 1:250 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B66	R1	28.9	0.3	8.67
	Halo Scrape	111.6	0.1	11.16
B67	Halo Scrape	33.5	0.1	3.35
Total Area/Volume		174.0	-	23.2

Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape



Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B68	Halo Scrape	136.8	0.1	13.7
Total Area/Volume		136.8	-	13.7

FIGURE SCALE = 1:250 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B68,HS,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.



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Drawing 33097/R41: Remedial Action Plan - B68

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 06/09/2024
Revision No: A
Drawn: EB
Reviewed: SF



CONTRACTORS REQUIRED TO TAKE PHOTOS
OF FINISHED EXCAVATIONS WITH TAPE
MEASURE IN PHOTO SHOWING WIDTH AND
DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED
AS BUILDING NUMBER, REMEDIAL/
MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B69,HS,25/10/24,12:30

Asbestos Works Categories:

UAW = Unlicensed Asbestos Works

ARW = Asbestos Related Works

CBLW = Class B Licensed Works

CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED
AFTER ABOVE GROUND INFRASTRUCTURE
REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B69	Halo Scrape	74.1	0.1	7.4
S4	M1	28.5	0.6	17.1
	Halo Scrape	17.2	0.1	1.7
Total Area/Volume		119.8	-	26.2

FIGURE SCALE = 1:250 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS (BUILDING NUMBER, REMEDIAL/ MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B70,HS,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

B70 Halo Scrape

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B70	Halo Scrape	137.4	0.1	13.7
Total Area/Volume		137.4	-	13.7

FIGURE SCALE = 1:250 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



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Drawing 33097/R43: Remedial Action Plan - B70

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
Revision No: B
Drawn: EB
Reviewed: SF



CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS (BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B71,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B71	R1	33.3	0.1	3.3
	M1	68.0	0.15	10.2
	Halo Scrape	52.5	0.1	5.2
Total Area/Volume		153.7	-	18.8

FIGURE SCALE = 1:250 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape



FIGURE SCALE = 1:500 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
 B73,M1,25/10/24,12:30

Asbestos Works Categories:
 UAW = Unlicensed Asbestos Works
 ARW = Asbestos Related Works
 CBLW = Class B Licensed Works
 CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B73	M1	42.6	0.15	6.4
B74	R1	89.4	0.3	26.8
	R2	51.8	0.5	25.9
	Halo Scape 1	40.8	0.1	4.1
	Halo Scape 2	36.8	0.1	3.7
Total Area/Volume		261.4	-	66.9



Legend

- Moderate Contamination
- Low Level Contamination
- Halo Scape



FIGURE SCALE = 1:500 AT A4
MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
 B75,R1,25/10/24,12:30

Asbestos Works Categories:
 UAW = Unlicensed Asbestos Works
 ARW = Asbestos Related Works
 CBLW = Class B Licensed Works
 CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B75	R1	28.2	0.2	5.6
	M1	20.8	0.2	4.2
	Halo Scrape 1	30.5	0.1	3.1
	Halo Scrape 2	25.4	0.1	2.5
B76	Halo Scrape	49	0.1	4.9
Total Area/Volume		153.9	-	20.3



Legend

- Moderate Contamination
- Low Level Contamination
- Halo Scrape



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
PAV,M1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

PAV M1
175.3254081°E, 38.0628603°S



Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
PAV	M1	295.8	0.15	44.4
Total Area/Volume		295.8	-	44.4

FIGURE SCALE = 1:250 AT A4
MANAGEMENT AREA WILL BE MARKED OUT BY FTL SURVEYOR



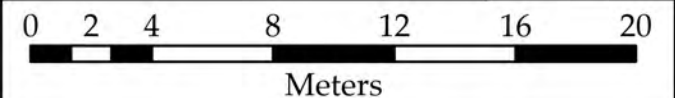
**Fraser
Thomas**

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Drawing 33097/R47: Remedial Action Plan - PAV

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 06/09/2024
Revision No: A
Drawn: EB
Reviewed: SF



CONTRACTORS REQUIRED TO TAKE PHOTOS OF
FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO
SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS
(BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA,
DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
S1,R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works
CBLW = Class B Licensed Works
CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER
ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
S1	R1	12.9	0.55	7.10
	M1	25.9	0.3	7.77
	M2	33.7	0.3	10.11
Total Area/Volume		72.5	-	24.98

FIGURE SCALE = 1:250 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

S1 R1
ARW

S1 M1

S1 M2

Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
S6,HS,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

S6 Halo Scrape



Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
S6	Halo Scrape	25.5	0.1	2.6
Total Area/Volume		25.5	-	2.6

FIGURE SCALE = 1:250 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



CONTRACTORS REQUIRED TO TAKE PHOTOS
OF FINISHED EXCAVATIONS WITH TAPE
MEASURE IN PHOTO SHOWING WIDTH AND
DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED
AS BUILDING NUMBER, REMEDIAL/
MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
S8,R1,25/10/24,12:30

Asbestos Works Categories:

UAW = Unlicensed Asbestos Works

ARW = Asbestos Related Works

CBLW = Class B Licensed Works

CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED
AFTER ABOVE GROUND INFRASTRUCTURE
REMOVAL.

S8 Halo Scrape

S8 R1
ARW

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
S8	R1	15.2	0.15	2.3
	Halo Scrape	9.2	0.1	0.9
Total Area/Volume		24.4	-	3.2

FIGURE SCALE = 1:500 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape



Legend

-  Moderate Contamination
-  Low Level Contamination
-  Halo Scrape

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS BUILDING NUMBER, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B33,R1,25/10/24,12:30

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

Building	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
B32	Halo Scrape	23.9	0.1	2.4
Total Area/Volume		23.9	-	2.4

FIGURE SCALE = 1:250 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING

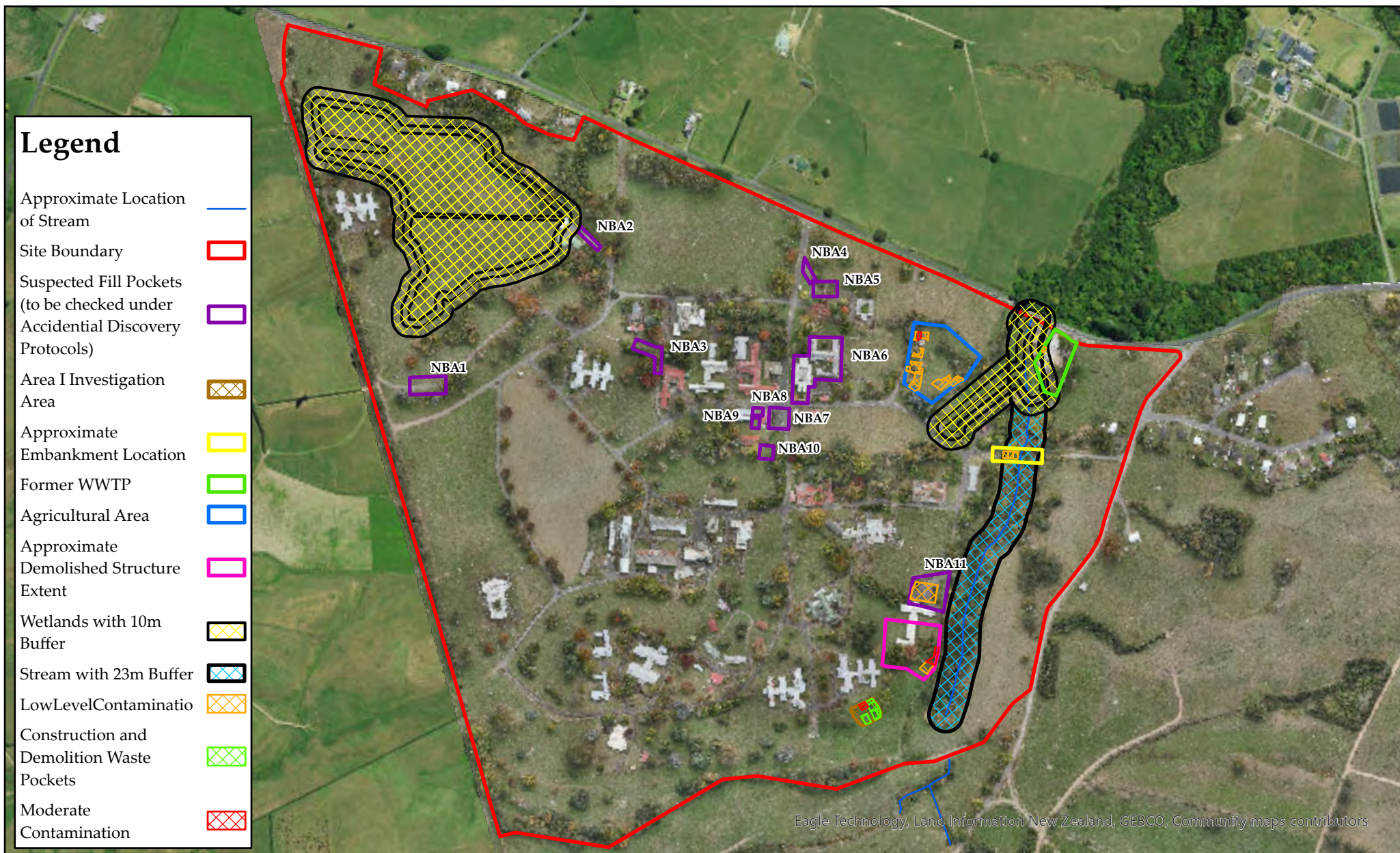
Drawing 33097/R51: Remedial Action Plan - B32

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 04/04/2025
 Revision No: B
 Drawn: EB
 Reviewed: SF



B32 Halo Scrape



	Drawing 33097/R52: Remedial Action Plan - NBA Location Plan		Date:	04/04/2025	
	Toitū Te Whenua Land Information New Zealand Former Tokanui Hospital Demolition and Remediation Project Tokanui		Figure Reference:	B	
			Drawn by:	AF	
			Reviewed by:	SF	
			070140280420560 Meters		

REMEDICATION IS REQUIRED IN THIS AREA FOR CONTAMINATED SOIL AND FILL MATERIAL CONTAINING $\geq 5\%$ CONSTRUCTION AND DEMOLITION (C&D) WASTE. REMEDIATION AREAS ARE ESTIMATED AND SQEP STANDOVER REQUIRED DURING THESE WORKS TO CONFIRM EXCAVATION REQUIREMENTS.

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING AREA AND DEPTHS OF EXCAVATIONS.

PROVIDE DISPOSAL DOCKETS FOR ANY MATERIALS REMOVED FROM SITE, INCLUDING TO EXISTING ON-SITE LANDFILL. DISPOSAL DOCKET SHOULD READ AREA-I, DATE, TIME

E.G. I-R1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works
ARW = Asbestos Related Works

VALIDATION SAMPLING REQUIREMENTS TO BE ADVISED BY SQEP

Legend

-  Uncertified Fill Pocket (Area I)
-  Moderate Contamination

NBA Area	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
Area I (Topsoil)	R1	39.5	0.04	1.6
	R2	36.6	0.1	3.7
Total Area / Volume		76	-	5.2

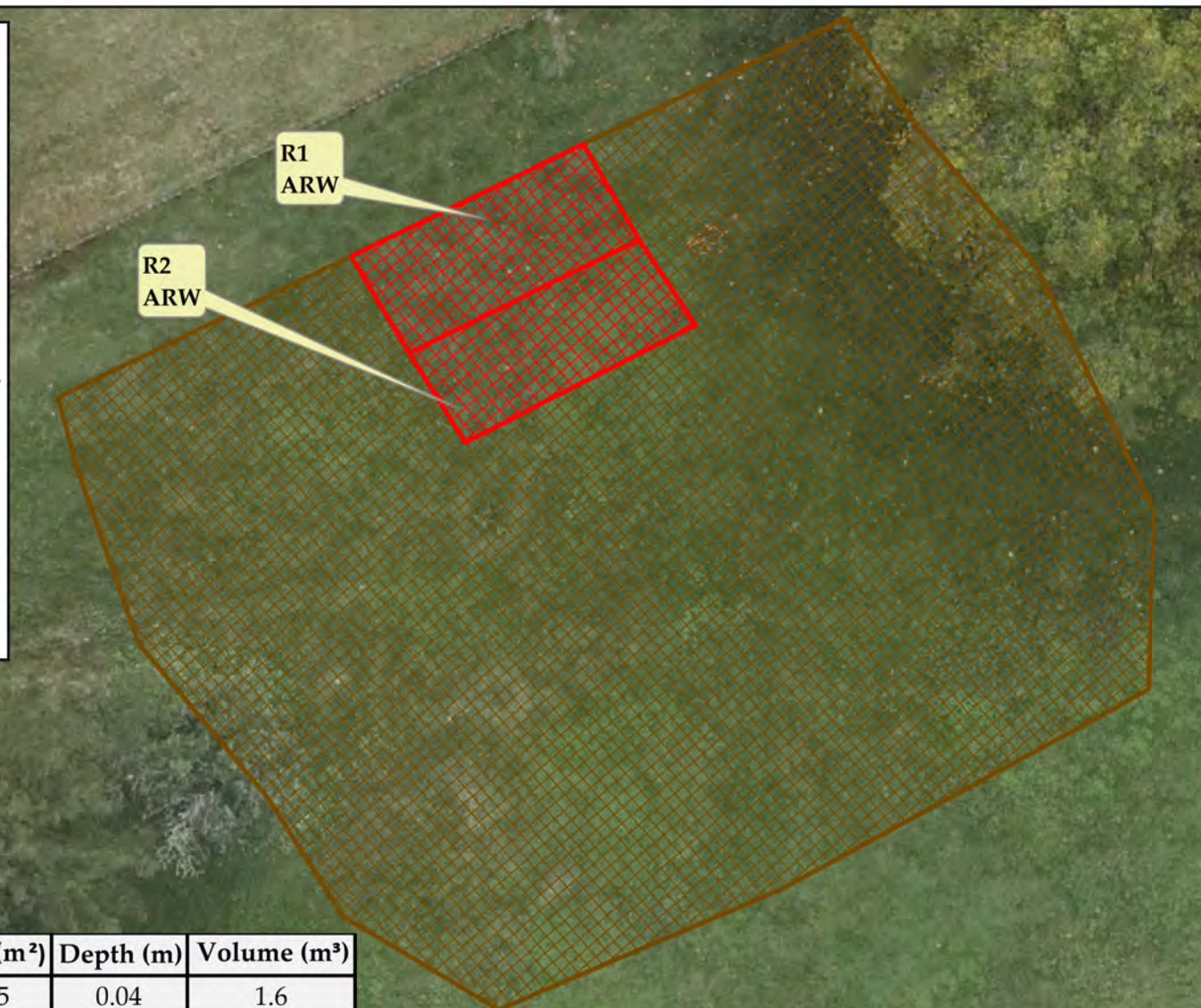


FIGURE SCALE = 1:250 AT A4
REMEDIAL AREA WILL BE MARKED OUT BY FTL SURVEYOR



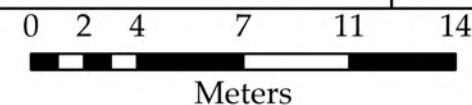
**Fraser
Thomas**

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Drawing 33097/R53: Remedial Action Plan - NBA (Area I - Topsoil)

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Tokanui

Date: 04/04/2025
Revision No: B
Drawn: AF
Reviewed: SF



REMEDICATION IS REQUIRED IN THIS AREA FOR CONTAMINATED SOIL AND FILL MATERIAL CONTAINING ≥5% CONSTRUCTION AND DEMOLITION (C&D) WASTE. REMEDIATION AREAS ARE ESTIMATED AND SQEP STANDOVER REQUIRED DURING THESE WORKS TO CONFIRM EXCAVATION REQUIREMENTS, INCLUDING ASBESTOS CONTROLS.

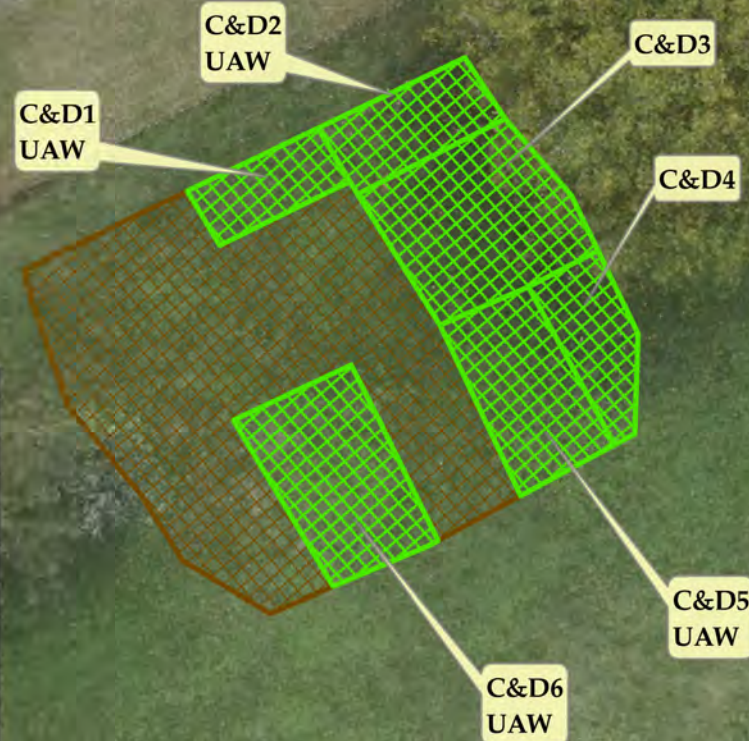
CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING AREA AND DEPTHS OF EXCAVATIONS.

PROVIDE DISPOSAL DOCKETS FOR ANY MATERIALS REMOVED FROM SITE, INCLUDING TO EXISTING ON-SITE LANDFILL. DISPOSAL DOCKET SHOULD READ AREA-I, DATE, TIME

E.G. I-C&D1,25/10/24,12:30

Asbestos Works Categories:
UAW = Unlicensed Asbestos Works

VALIDATION SAMPLING REQUIREMENTS TO BE ADVISED BY SQEP



NBA Area	Remedial/Management Area	Area (m²)	Depth (m)	Volume (m³)	Main Contaminant (Depth)
Area I (Fill)	C&D1	39.5	0.1 - 0.3	7.892	PACM (0.2m)
			0.5 - 0.8	11.838	PACM (0.6 - 0.7m)
			0.9 - 1.1	7.892	PACM (1.0m)
	C&D2	53.6	1.3 - 1.5	10.724	PACM (1.4m)
	C&D3	120.9	1.4 - 1.6	24.186	C&D (1.5m)
	C&D4	49.0	0.1 - 2.0	93.176	C&D (0.1 - 2.0m)
	C&D5	81.6	0.7 - 0.9	16.32	PACM (0.8m)
	C&D6	104.0	0.2 - 0.8	62.388	C&D (0.2 - 0.8m)
			0.8 - 1.9	114.378	C&D (0.8 - 1.9m)
Total Area / Volume		449	-	348.8	-

Legend

-  Uncertified Fill Pocket (Area I)
-  Construction and Demolition Waste Pockets

FIGURE SCALE = 1:500 AT A4

C&D WASTE POCKETS WILL BE MARKED OUT BY FTL SURVEYOR



REMEDICATION IS REQUIRED IN THIS AREA FOR CONTAMINATED SOIL AND FILL MATERIAL CONTAINING $\geq 5\%$ CONSTRUCTION AND DEMOLITION (C&D) WASTE. REMEDIATION AREAS ARE ESTIMATED AND SQEP STANDOVER REQUIRED DURING THESE WORKS TO CONFIRM EXCAVATION REQUIREMENTS, INCLUDING ASBESTOS CONTROLS.

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING AREA AND DEPTHS OF EXCAVATIONS.

PROVIDE DISPOSAL DOCKETS FOR ANY MATERIALS REMOVED FROM SITE, INCLUDING TO EXISTING ON-SITE LANDFILL. DISPOSAL DOCKET SHOULD READ AREA-I, DATE, TIME

E.G. E-C&D1,25/10/24,12:30

VALIDATION SAMPLING REQUIREMENTS TO BE ADVISED BY SQEP

NOTE: 200mm DIAMETER ASBESTOS WATERMAIN ACROSS EMBANKMENT WILL BE REMOVED AS PART OF DEMOLITION WORK

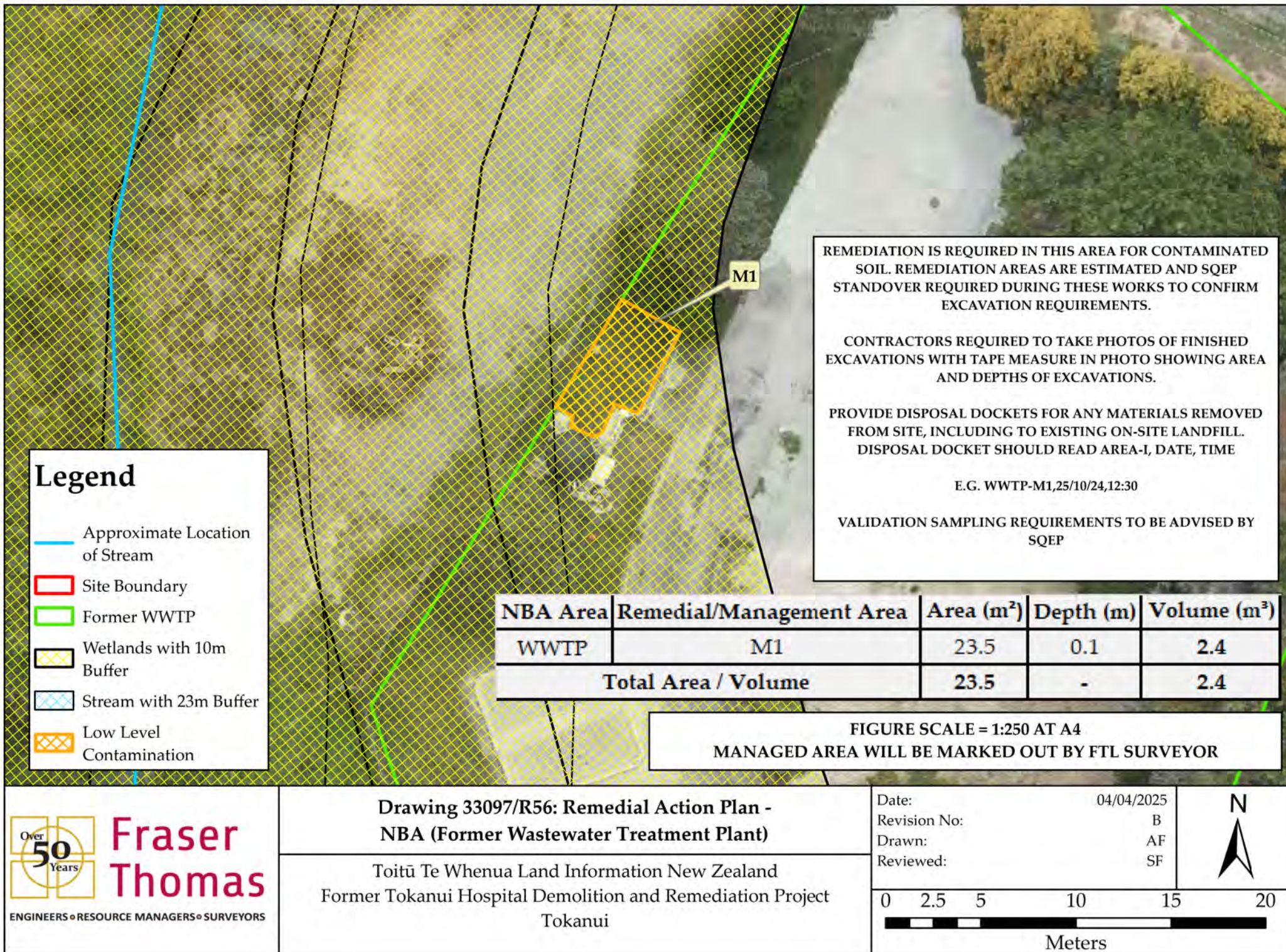
Legend

-  Approximate Embankment Location
-  Low Level Contamination
-  Approximate Location of Stream
-  Location of Asbestos Watermain

NBA Area	Remedial/Management Area	Area (m²)	Depth (m)	Volume (m³)	Main Contaminant
Culvert 2 Embankment	EMB1	63.1	0 - 0.3	18.9	Possible Coal tar
		63.1	1.4 - 2.4	63.1	C&D
	EMB2	63.1	1.4 -2.0	37.8	C&D
		63.1	1.8 - 2.2	25.2	Possible Asbestos Pipe
	EMB3	60.9	1.6 - 2.2	36.5	C&D
Total Area / Volume		313	-	182	-

FIGURE SCALE = 1:500 AT A4
C&D WASTE POCKETS WILL BE MARKED OUT BY FTL SURVEYOR





REMEDICATION IS REQUIRED IN THIS AREA FOR CONTAMINATED SOIL. REMEDIATION AREAS ARE ESTIMATED AND SQEP STANDOVER REQUIRED DURING THESE WORKS TO CONFIRM EXCAVATION REQUIREMENTS.

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING AREA AND DEPTHS OF EXCAVATIONS.

PROVIDE DISPOSAL DOCKETS FOR ANY MATERIALS REMOVED FROM SITE, INCLUDING TO EXISTING ON-SITE LANDFILL. DISPOSAL DOCKET SHOULD READ AREA, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G. Ag-R1,25/10/24,12:30

VALIDATION SAMPLING REQUIREMENTS TO BE ADVISED BY SQEP

Legend

- Agricultural Area
- Moderate Contamination
- Low Contamination
- Area Covered by Building Remediation
- Wetlands with 10m Buffer

NBA Area	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
Agricultural Area	R1	40.4	0.25	10.1
	M1	44.22	0.25	11.1
	M2	81.8	0.3 - 0.55	20.5
	M3	73.24	0.15	11.0
	M4	53.32	0.25	13.3
	M5	75.58	0.25	18.9
	M6	145.94	0.25	36.5
	M7	95.91	0.25	24.0
	M8	195	0.3	58.5
	M9	37	0.3	11.1
	M10	17.91	0.2	3.6
	M11	35.94	0.2	7.2
	M12	59.5	0.3	17.9
Total Area / Volume		956	-	243.5

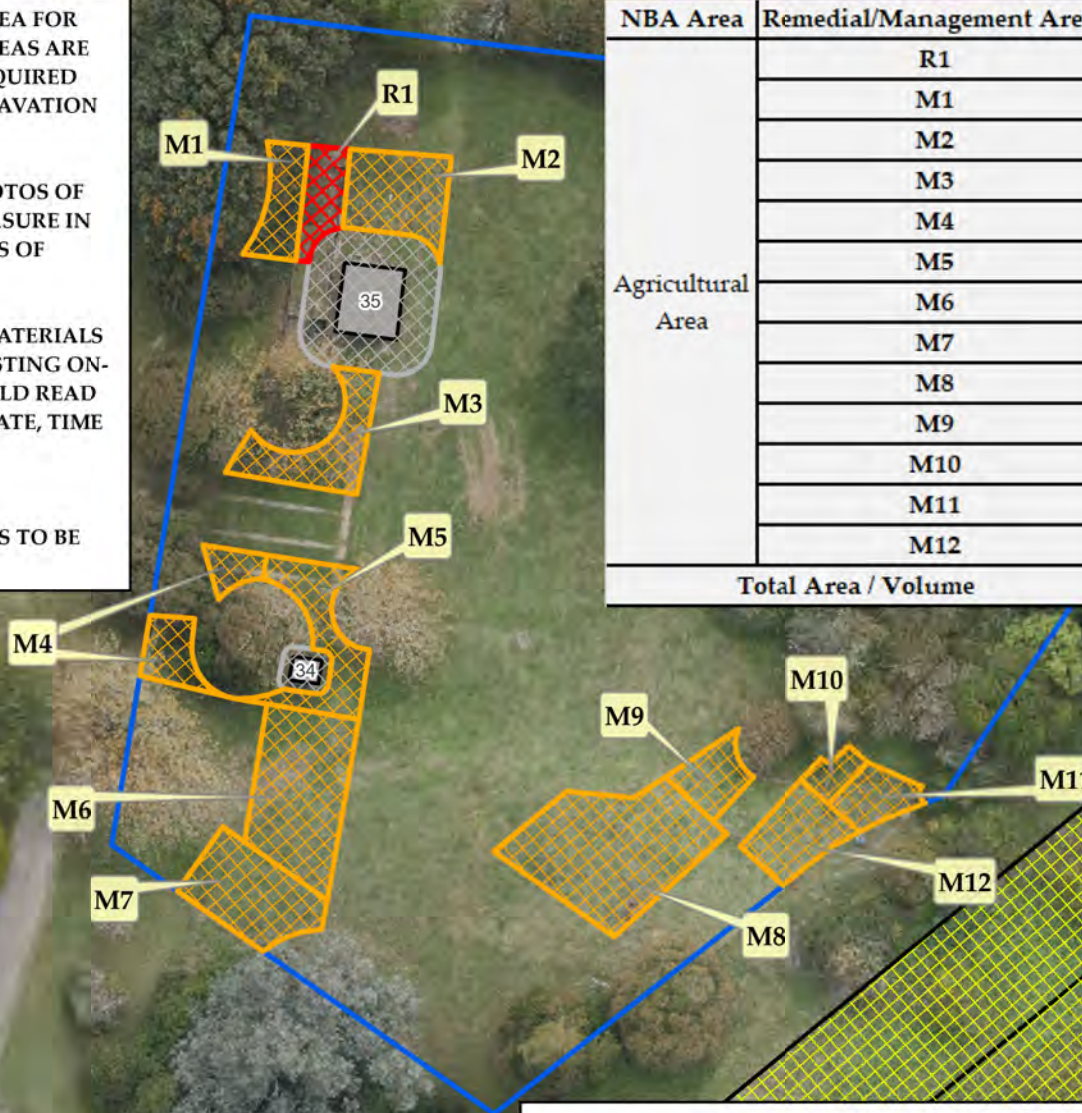


FIGURE SCALE = 1:750 AT A4
CONTAMINATED SOIL POCKETS WILL BE MARKED OUT BY FTL

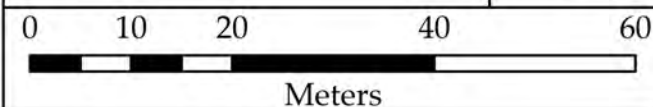


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Drawing 33097/R57: Remedial Action Plan - NBA (Agricultural Area)

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Tokuai

Date: 04/04/2025
Revision No: B
Drawn: AF
Reviewed: SF



REMEDICATION IS REQUIRED IN THIS AREA FOR CONTAMINATED SOIL. REMEDIATION AREAS ARE ESTIMATED AND SQEP STANDOVER REQUIRED DURING THESE WORKS TO CONFIRM EXCAVATION REQUIREMENTS.

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING AREA AND DEPTHS OF EXCAVATIONS.

PROVIDE DISPOSAL DOCKETS FOR ANY MATERIALS REMOVED FROM SITE, INCLUDING TO EXISTING ON-SITE LANDFILL. DISPOSAL DOCKET SHOULD READ AREA, REMEDIAL/MANAGEMENT AREA, DATE, TIME

E.G.DS-R1,25/10/24,12:30

VALIDATION SAMPLING REQUIREMENTS TO BE ADVISED BY SQEP

NBA Area	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
Demolished Structure	R1	158.6	0.25	39.7
	M1	162.7	0.25	40.7
Total Area / Volume		321.3	-	80.3

Legend

-  Approximate Location of Stream
-  Approximate Demolished Structure Extent
-  Moderate Contamination
-  Low Contamination
-  Area Covered by Building Remediation

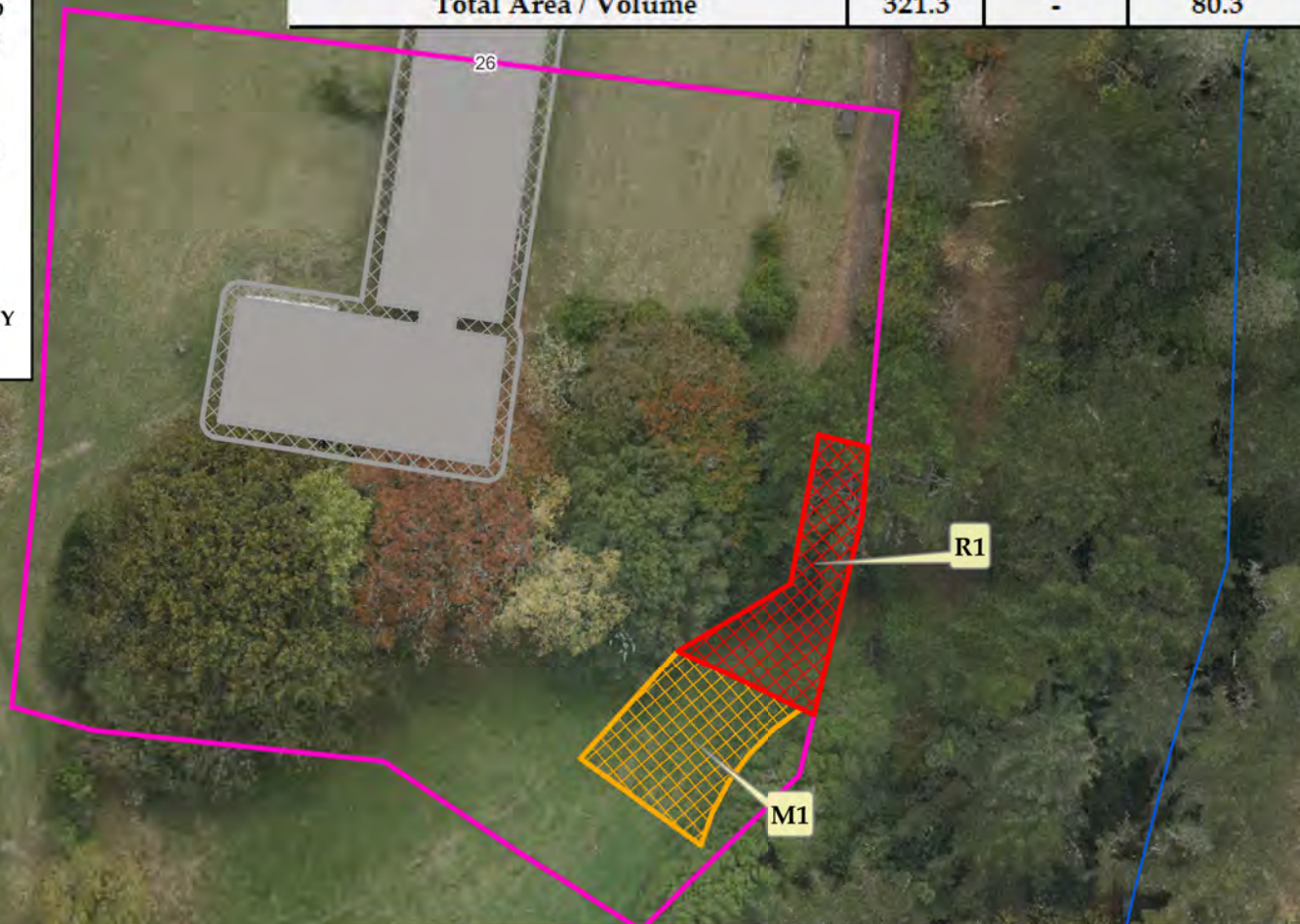


FIGURE SCALE = 1:750 AT A4
CONTAMINATED SOIL POCKETS WILL BE MARKED OUT BY FTL



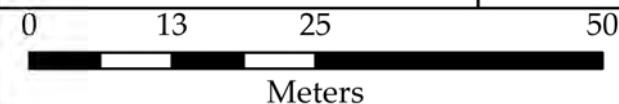
**Fraser
Thomas**

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Drawing 33097/R58: Remedial Action Plan - NBA (Demolished Structure)

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Tokanui

Date: 04/04/2025
Revision No: B
Drawn: AF
Reviewed: SF



NBA Area	Remedial/Management Area	Area (m ²)	Depth (m)	Volume (m ³)
Area North of B26	M1	781	0.3	234.3
Total Area / Volume		781	-	234.3

CONTRACTORS REQUIRED TO TAKE PHOTOS OF FINISHED EXCAVATIONS WITH TAPE MEASURE IN PHOTO SHOWING WIDTH AND DEPTHS OF EXCAVATIONS.

ALL DISPOSAL DOCKETS MUST BE FORMATTED AS (BUILDING NUMBER, REMEDIAL/ MANAGEMENT AREA, DATE, TIME

E.G. DOCKET LABEL SHOULD READ:
B59,R1,25/10/24,12:30

Asbestos Works Categories:

UAW = Unlicensed Asbestos Works

ARW = Asbestos Related Works

CBLW = Class B Licensed Works

CALW = Class A Licensed Works

SUBFLOOR INVESTIGATION TO BE COMPLETED AFTER ABOVE GROUND INFRASTRUCTURE REMOVAL.

FIGURE SCALE = 1:250 AT A4

MEASURE BUILDING BUFFERS OFFSET FROM BUILDING WALL CLADDING



Legend

- Moderate Contamination
- Low Level Contamination
- Halo Scrape



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Drawing 33097/R59: Remedial Action Plan - Area North of B26

Toitū Te Whenua Land Information New Zealand
Former Tokanui Hospital Demolition and Remediation Project
Remedial Action Plan

Date: 26/03/2025
Revision No: A
Drawn: EB
Reviewed: SF



0 3.25 6.5 13 19.5 26 32.5
Meters

TOKANUI HOSPITAL HORIZONTAL INFRASTRUCTURE

TOITŪ TE WHENUA - LINZ

3000 SERIES - EROSION AND SEDIMENT CONTROL PLANS

33205

FOR RESOURCE CONSENT

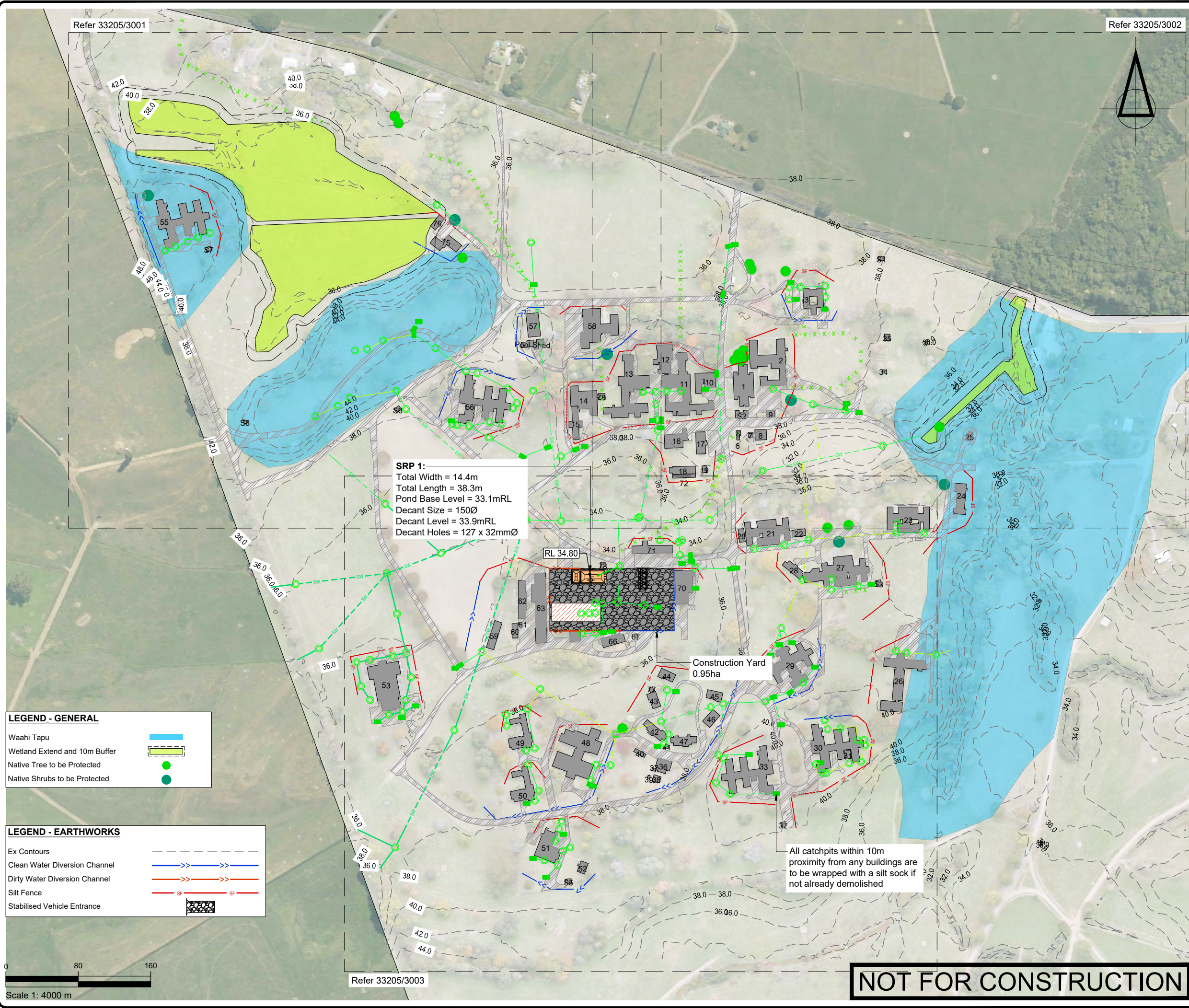
ISSUE SET 1

05/11/24

LIST OF DRAWINGS		5/11/2024
	ISSUE SET	1
DRAWING	DRAWING TITLE	
33205/3000	BUILDING DEMOLITION - EROSION AND SEDIMENT CONTROL OVERALL PLAN	-
33205/3001	BUILDING DEMOLITION - EROSION AND SEDIMENT CONTROL - SHEET 1 OF 3	-
33205/3002	BUILDING DEMOLITION - EROSION AND SEDIMENT CONTROL - SHEET 2 OF 3	-
33205/3003	BUILDING DEMOLITION - EROSION AND SEDIMENT CONTROL - SHEET 3 OF 3	-
33205/3100	SEDIMENT RETENTION POND PLAN AND SECTIONS	-
33205/3101	SEDIMENT RETENTION POND DETAILS	-
33205/3102	EROSION AND SEDIMENT CONTROL TYPICAL DETAILS	-
33205/3200	NON-BUILDING CONTAMINATED SOIL REMEDIATION AREAS - EROSION AND SEDIMENT CONTROL PLAN	-
33205/3201	NON-BUILDING CONTAMINATED SOIL REMEDIATION AREAS - EROSION AND SEDIMENT CONTROL PLAN - AREA I (FILL)	-
33205/3202	NON-BUILDING CONTAMINATED SOIL REMEDIATION AREAS - EROSION AND SEDIMENT CONTROL PLAN - DEMOLISHED STRUCTURE	-
33205/3203	NON-BUILDING CONTAMINATED SOIL REMEDIATION AREAS - EROSION AND SEDIMENT CONTROL PLAN - AGRICULTURAL AREA	-



P:\333 series\33205 Tokanui Infrastructure\03 Drawings\33205-3000-3003.dwg, f:\otira,11/10/2021 10:18 am



SURVEYED	BSCL	24.04.23	APPROVED SF 31.05.23	DATE	
DESIGNED	DK	31.05.23			
DRAWN	DK	31.05.23			
CHECKED	SF	31.05.23			
REVISION	CHANGES			CHECKED	DATE
	</				

- NOTES
- All erosion and sediment controls shall comply with Waikato Regional Council 'Erosion & Sediment Control Guidelines for Soil Disturbing Activities' dated January 2009, technical report number No.2009/02, updated in 2014, with current information on specific measures found online (<https://waikatoregion.govt.nz/services/publications/tr200902/>).
 - All sediment control works are to be operational prior to any other works commencing on site and shall remain in place until development works are complete and stabilised.
 - Sediment controls shown on this plan are indicative and may be modified by the contractor, subject to approval of the Site Engineer and Council representative.

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

BUILDING DEMOLITION -
EROSION AND SEDIMENT
CONTROL OVERALL PLAN

Fraser Thomas

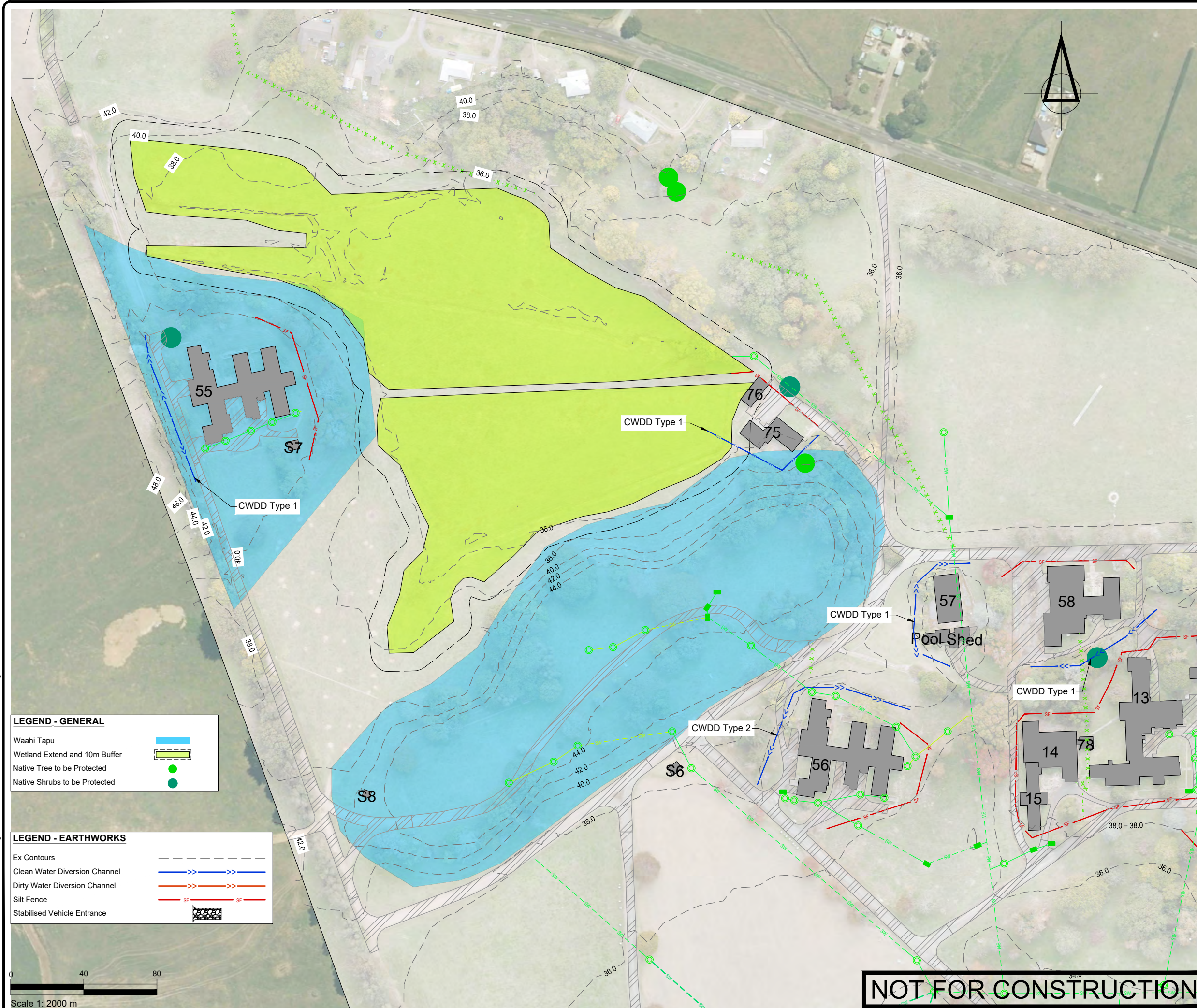
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NELSON 03 222 1132

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STATUS	
FOR RESOURCE CONSENT	
Construction works shall commence only on receipt of and in accordance with the Council or Council organisation stamped approved drawings, unless otherwise indicated.	
SCALE	1:4000 (A3)
DRAWING No	33205/3000
REVISION	-

[illegible]

- NOTES

 1. All erosion and sediment controls shall comply with Waikato Regional Council 'Erosion & Sediment Control Guidelines for Soil Disturbing Activities' dated January 2009, technical report number No.2009/02, updated in 2014, with current information on specific measures found online (<https://waikatoregion.govt.nz/services/publications/tr200902/>).
 2. All sediment control works are to be operational prior to any other works commencing on site and shall remain in place until development works are complete and stabilised.
 3. Sediment controls shown on this plan are indicative and may be modified by the contractor, subject to approval of the Site Engineer and Council representative.

CLIENT

TOITŪ TE WHENUA - LINZ

PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

BUILDING DEMOLITION -
EROSION AND SEDIMENT
CONTROL - SHEET 1 OF 3



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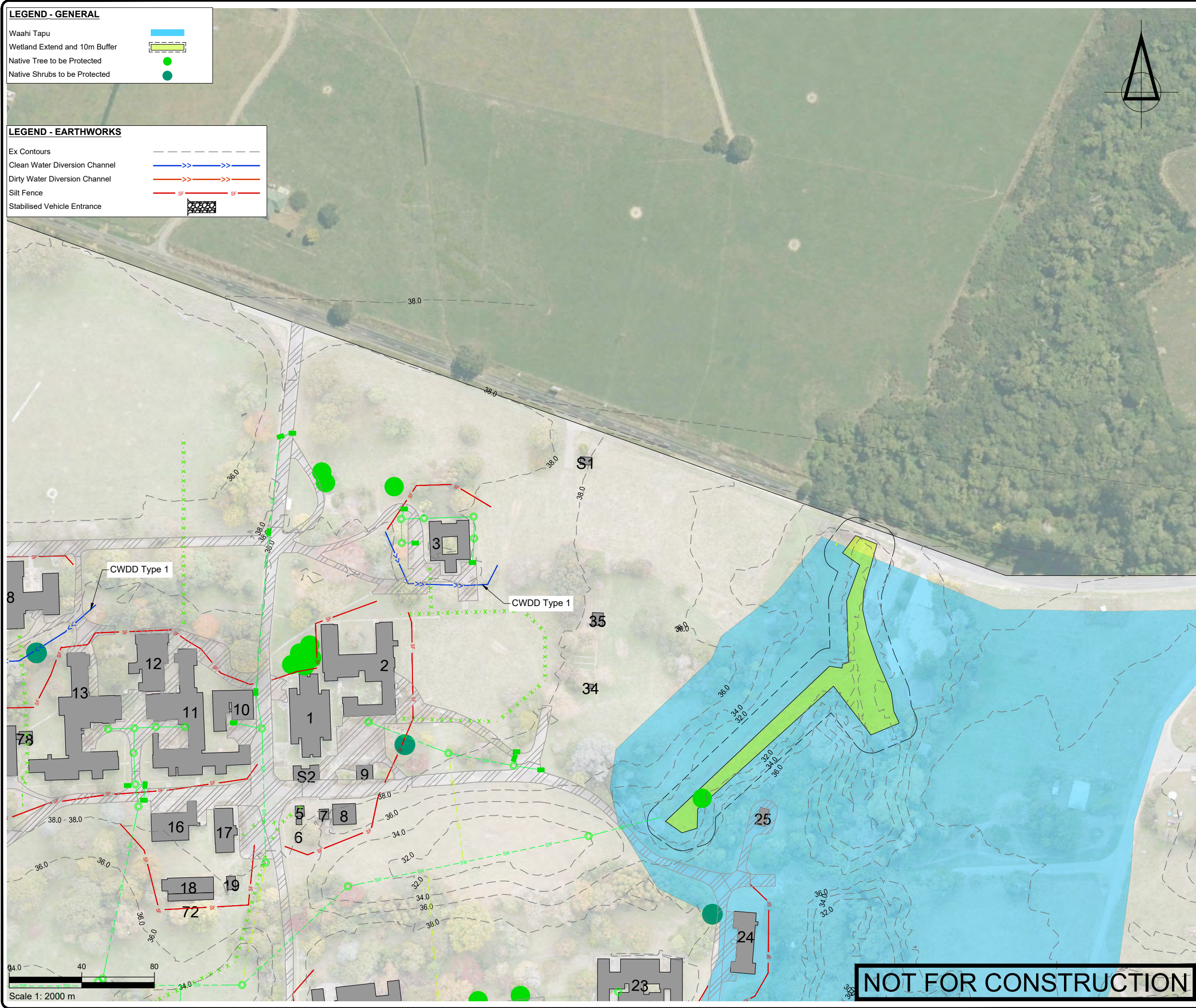
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DRAWING No	33205/3001	REVISION
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LEGEND - GENERAL

Waahi Tapu

Wetland Extend and 10m Buffer

Native Tree to be Protected

Native Shrubs to be Protected

LEGEND - EARTHWORKS

Ex Contours

Clean Water Diversion Channel

Dirty Water Diversion Channel

Silt Fence

Stabilised Vehicle Entrance

SURVEYED	BSCL	24.04.23	APPROVED	SF	DATE
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NOTES

- All erosion and sediment controls shall comply with Waikato Regional Council 'Erosion & Sediment Control Guidelines for Soil Disturbing Activities' dated January 2009, technical report number No.2009/02, updated in 2014, with current information on specific measures found online (<https://waikatoregion.govt.nz/services/publications/tr200902/>).
- All sediment control works are to be operational prior to any other works commencing on site and shall remain in place until development works are complete and stabilised.
- Sediment controls shown on this plan are indicative and may be modified by the contractor, subject to approval of the Site Engineer and Council representative.

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

BUILDING DEMOLITION -
EROSION AND SEDIMENT
CONTROL - SHEET 2 OF 3



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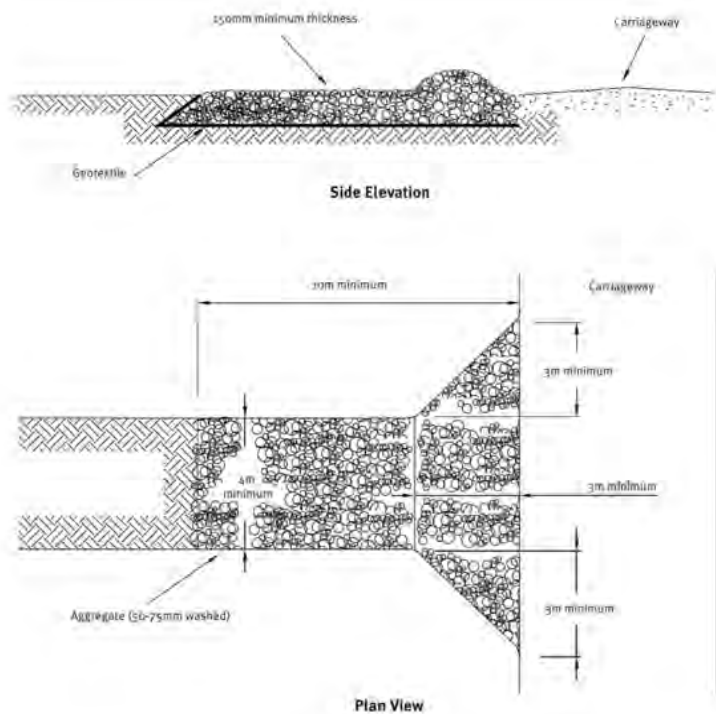


Figure 1.8 Stabilised Construction Entrance

Table 1.8 Stabilised Construction Entrance Aggregate Specifications

Aggregate Size	50 – 75 mm washed aggregate
Thickness	150 mm minimum
Length	10 minimum
Width	4 m minimum

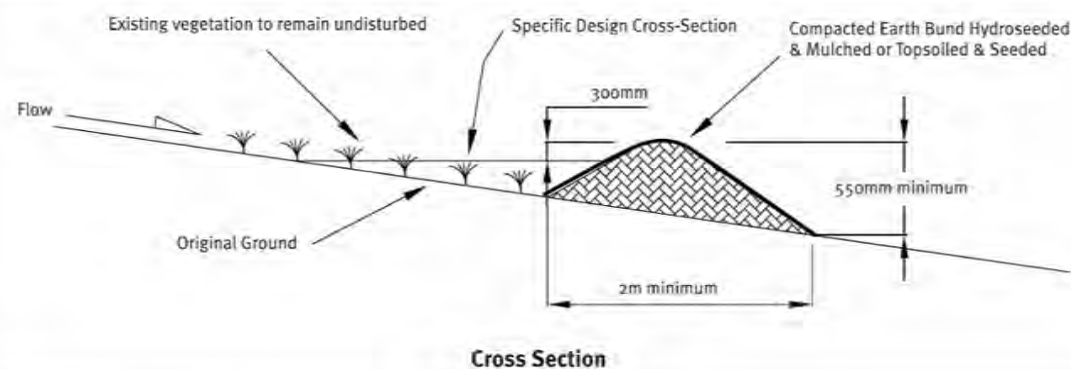


Figure 1.1.1 Cleanwater Runoff Diversion Bund

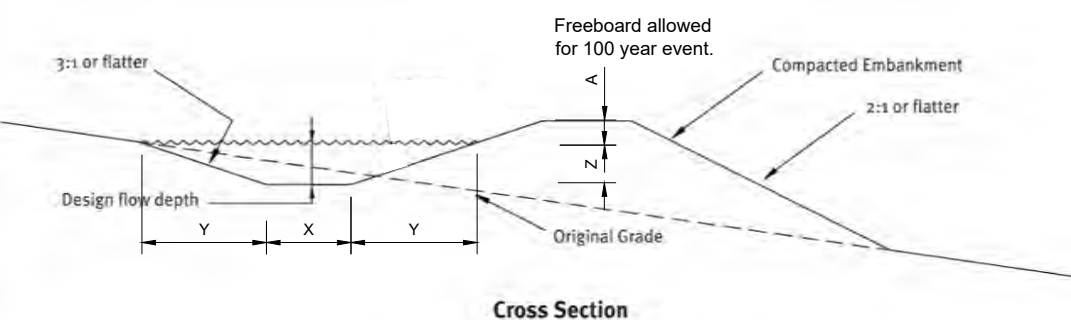
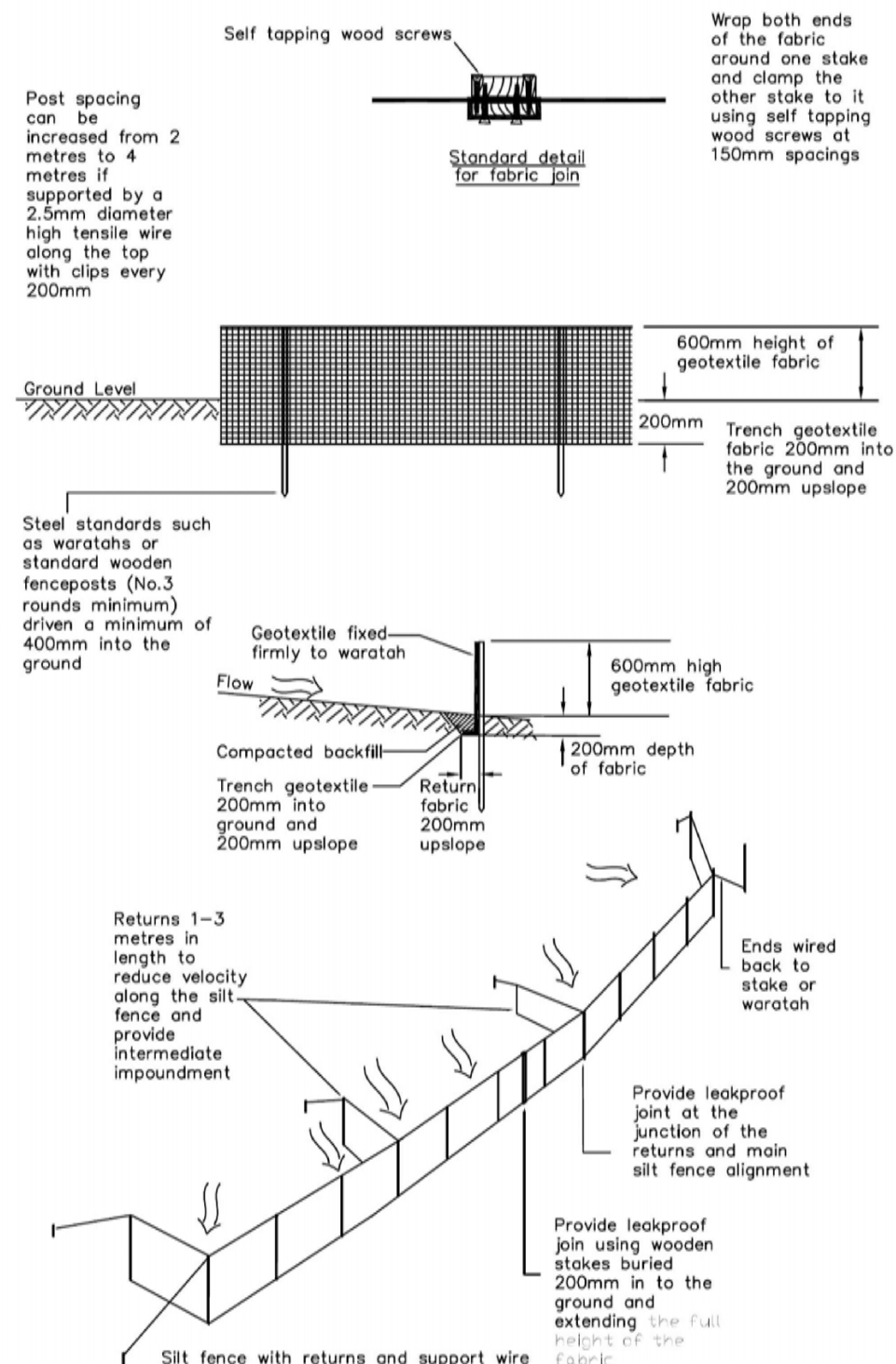


Figure 1.1.2 Runoff Diversion Channel

Standard detail for Silt Fence



Diversion Channel Dimensions

Drain Type	X	Y	Z	A
1	0.100	0.675	0.225	0.025
2	0.200	0.825	0.275	0.050

Table 2.2 Silt Fence Design Criteria

Slope Steepness %	Slope Length (m) (Maximum)	Spacing of Returns (m)	Silt Fence Length (m) (Maximum)
Flatter than 2%	Unlimited	N/A	Unlimited
2 – 10%	40	60	300
10 – 20%	30	50	230
20 – 33%	20	40	150
33 – 50%	15	30	75
> 50%	6	20	40

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- NOTES
- All works to be undertaken in accordance with the approved Demolition, Deconstruction and Remediation Management Plan, associated resource consent conditions and all other works approvals and best practice industry guidelines/requirements.
 - All erosion and sediment controls shall comply with Waikato Regional Council 'Erosion & Sediment Control Guidelines for Soil Disturbing Activities' dated January 2009, technical report number No.2009/02, updated in 2014, with current information on specific measures found online (<https://waikatoregion.govt.nz/services/publications/tr200902/>).

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TOKANUI HOSPITAL
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TITLE
EROSION AND SEDIMENT
CONTROL TYPICAL DETAILS

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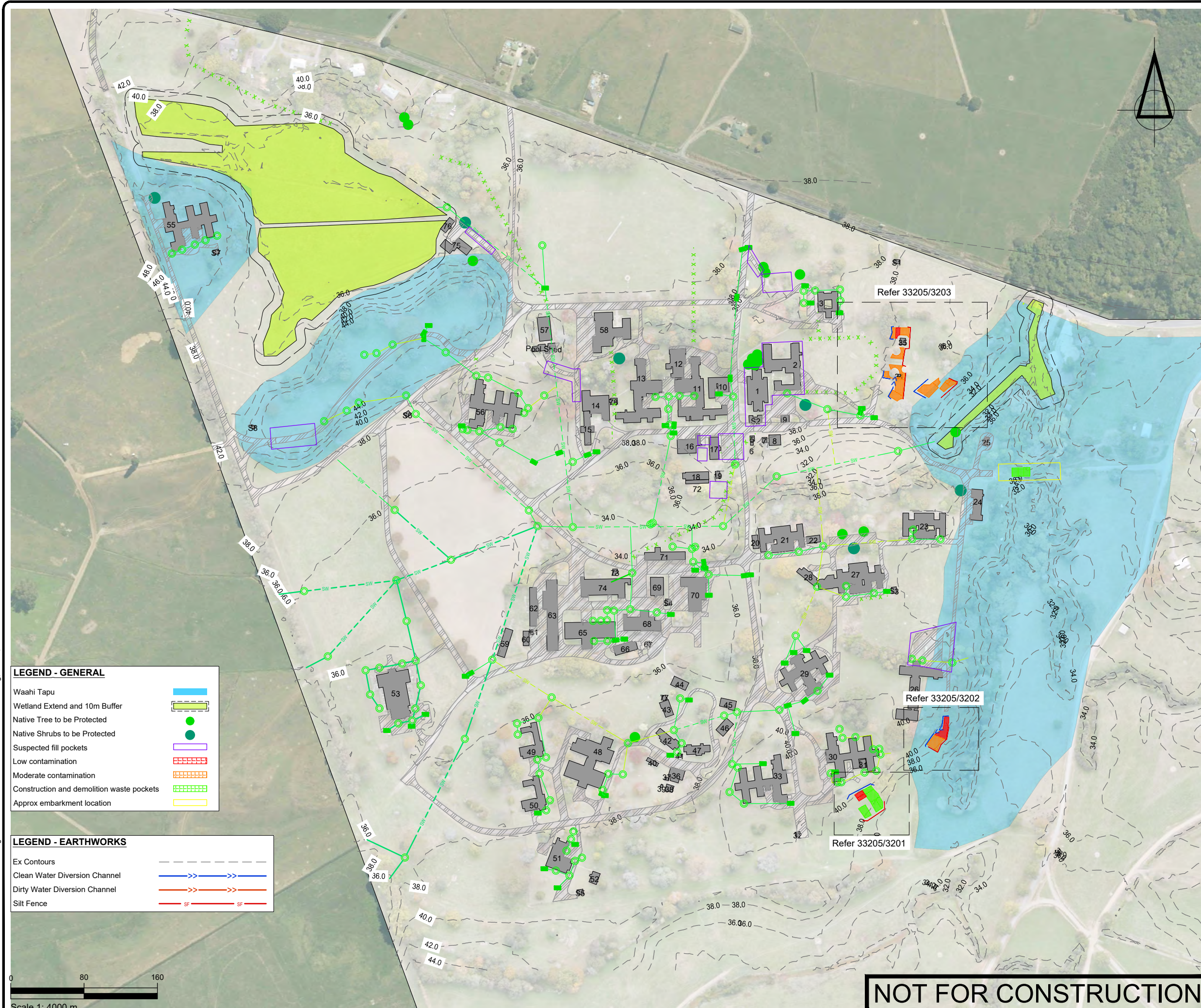
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- NOTES
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 2. All erosion and sediment controls shall comply with Waikato Regional Council 'Erosion & Sediment Control Guidelines for Soil Disturbing Activities' dated January 2009, technical report number No.2009/02, updated in 2014, with current information on specific measures found online (<https://waikatoregion.govt.nz/services/publications/tr200902/>).
 3. Suspected fill pockets NBA1 - NBA11 will be rechecked during demolition works in these areas and either left undisturbed or minor excavation works undertaken to remove confirmed fill material. Appropriate erosion and sediment controls will be installed around these areas, as required, comprising clean water diversion drains/bunds on upgradient side and silt fences on downgradient side.
 4. Erosion and sediment controls for embankment are shown on 33205/EMB drawing series.
 5. Refer following plans for specific erosion and sediment control measures for Fill Area 1, agricultural area and demolished structure.

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PROJECT

TOKANUI HOSPITAL HORIZONTAL INFRASTRUCTURE

TITLE

NON-BUILDING CONTAMINATED
SOIL REMEDIATION AREAS -
EROSION AND SEDIMENT
CONTROL PLAN



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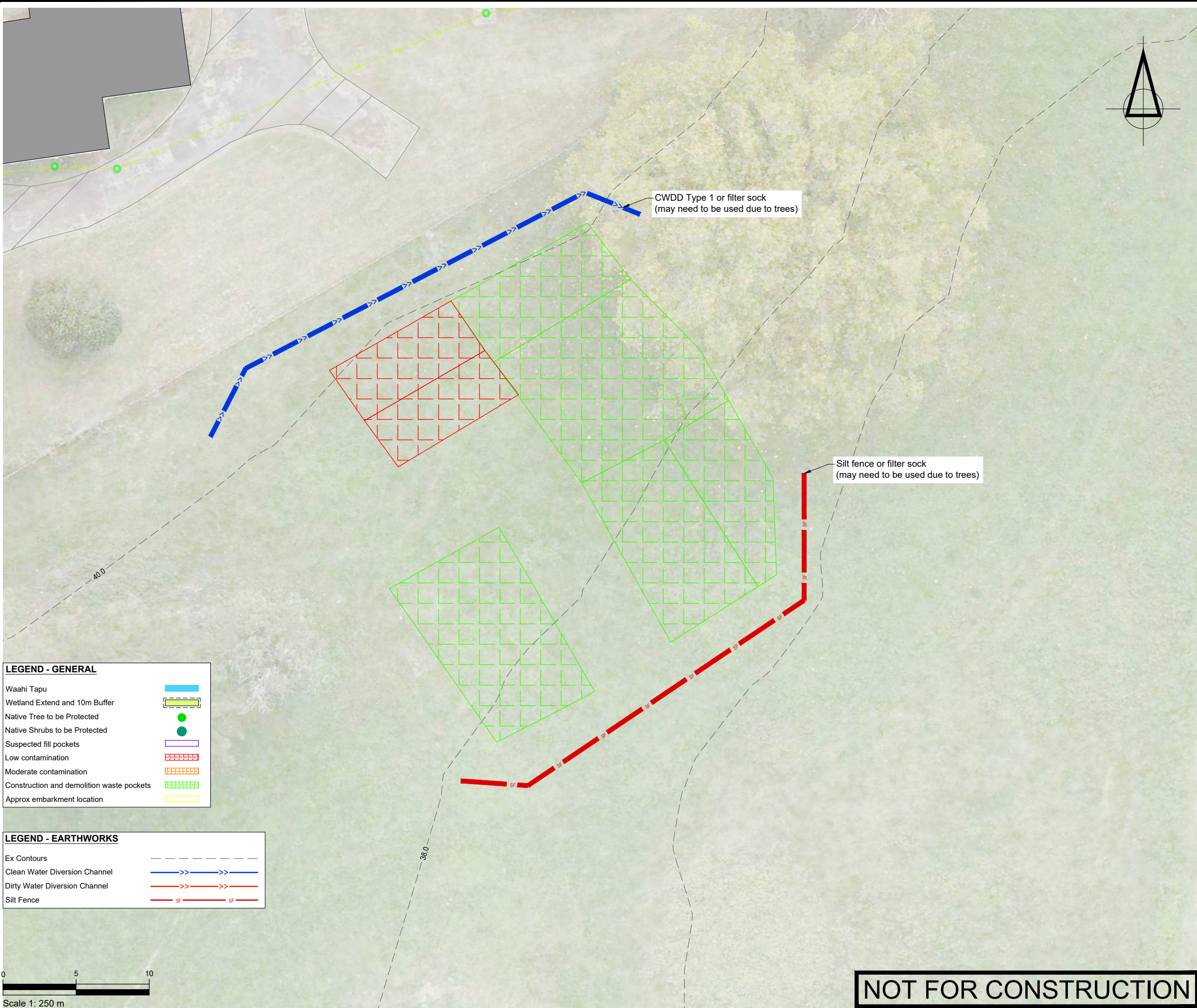
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LEGEND - GENERAL

Waahi Tapu

Wetland Extend and 10m Buffer

Native Tree to be Protected

Native Shrubs to be Protected

Suspected fill pockets

Low contamination

Moderate contamination

Construction and demolition waste pockets

Approx embankment location

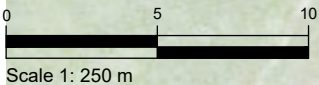
LEGEND - EARTHWORKS

Ex Contours

Clean Water Diversion Channel

Dirty Water Diversion Channel

Silt Fence



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- NOTES
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2.

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3.

Suspected fill pockets NBA1 - NBA11 will be rechecked during demolition works in these areas and either left undisturbed or minor excavation works undertaken to remove confirmed fill material. Appropriate erosion and sediment controls will be installed around theses areas, as required, comprising clean water diversion drains/bunds on upgradient side and silt fences on downgradient side.
4.

Erosion and sediment controls for embankment are shown on 33205/EMB drawing series.
5.

Refer following plans for specific erosion and sediment control measures for Fill Area I, agricultural area and demolished structure.

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PROJECT

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

NON-BUILDING CONTAMINATED
SOIL REMEDIATION AREAS -
EROSION AND SEDIMENT
CONTROL PLAN - AREA I (FILL)

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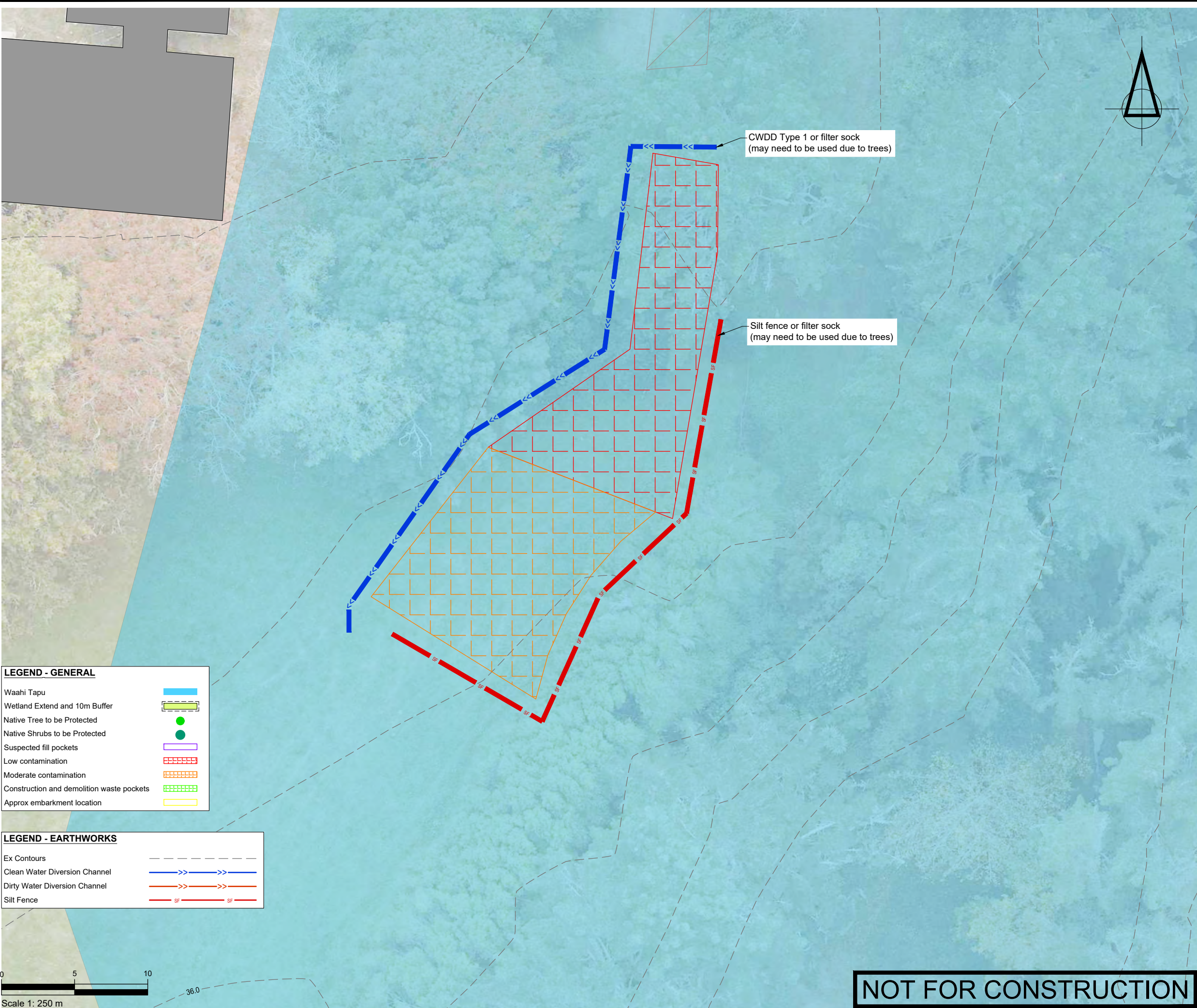
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LEGEND - GENERAL

Waahi Tapu	
Wetland Extend and 10m Buffer	
Native Tree to be Protected	
Native Shrubs to be Protected	
Suspected fill pockets	
Low contamination	
Moderate contamination	
Construction and demolition waste pockets	
Approx embarkment location	

LEGEND - EARTHWORKS

Ex Contours	
Clean Water Diversion Channel	
Dirty Water Diversion Channel	
Silt Fence	

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 - Suspected fill pockets NBA1 - NBA11 will be rechecked during demolition works in these areas and either left undisturbed or minor excavation works undertaken to remove confirmed fill material. Appropriate erosion and sediment controls will be installed around these areas, as required, comprising clean water diversion drains/bunds on upgradient side and silt fences on downgradient side.
 - Erosion and sediment controls for embankment are shown on 33205/EMB drawing series.
 - Refer following plans for specific erosion and sediment control measures for Fill Area 1, agricultural area and demolished structure.

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TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

NON-BUILDING CONTAMINATED
SOIL REMEDIATION AREAS -
EROSION AND SEDIMENT
CONTROL PLAN - DEMOLISHED
STRUCTURE



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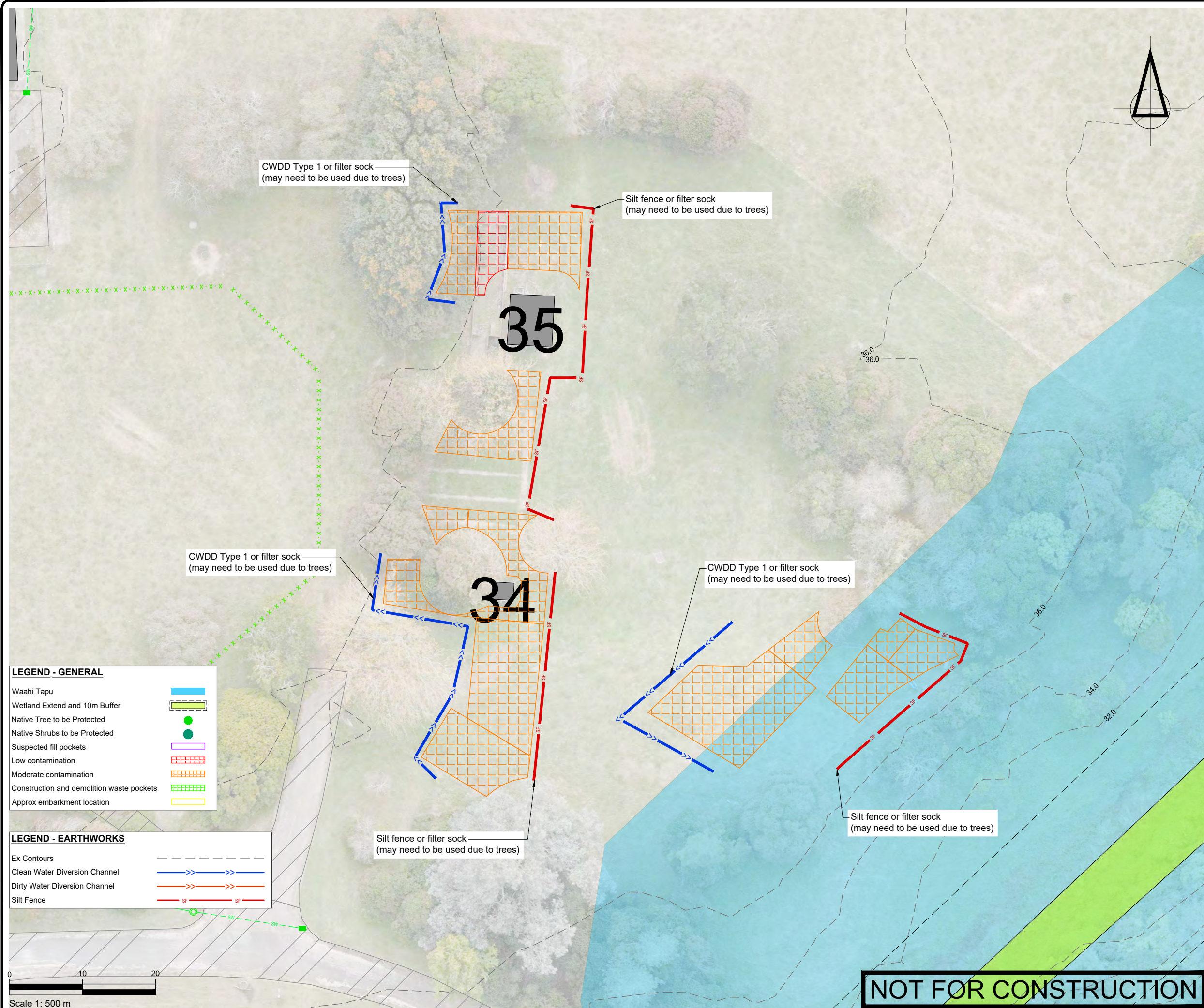
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 - Erosion and sediment controls for embankment are shown on 33205/EMB drawing series.
 - Refer following plans for specific erosion and sediment control measures for Fill Area 1, agricultural area and demolished structure.

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HORIZONTAL INFRASTRUCTURE

TITLE

NON-BUILDING CONTAMINATED
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EROSION AND SEDIMENT
CONTROL PLAN -
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Project:
Tokanui Hospital
Drawing Title:
Te Mawhai Road - Main Gate Gate and Fence Position - Vehicle Stopping Bay

Date:
08/08/2024
Scale @ A3:
NTS
Revision:
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