

TOKANUI HOSPITAL HORIZONTAL INFRASTRUCTURE

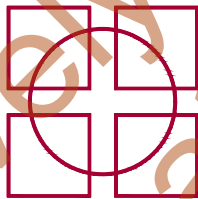
TOITŪ TE WHENUA - LINZ
PL SERIES - PIPE LINING WORKS

33205

FOR RESOURCE CONSENT

ISSUE SET 2

07/11/24



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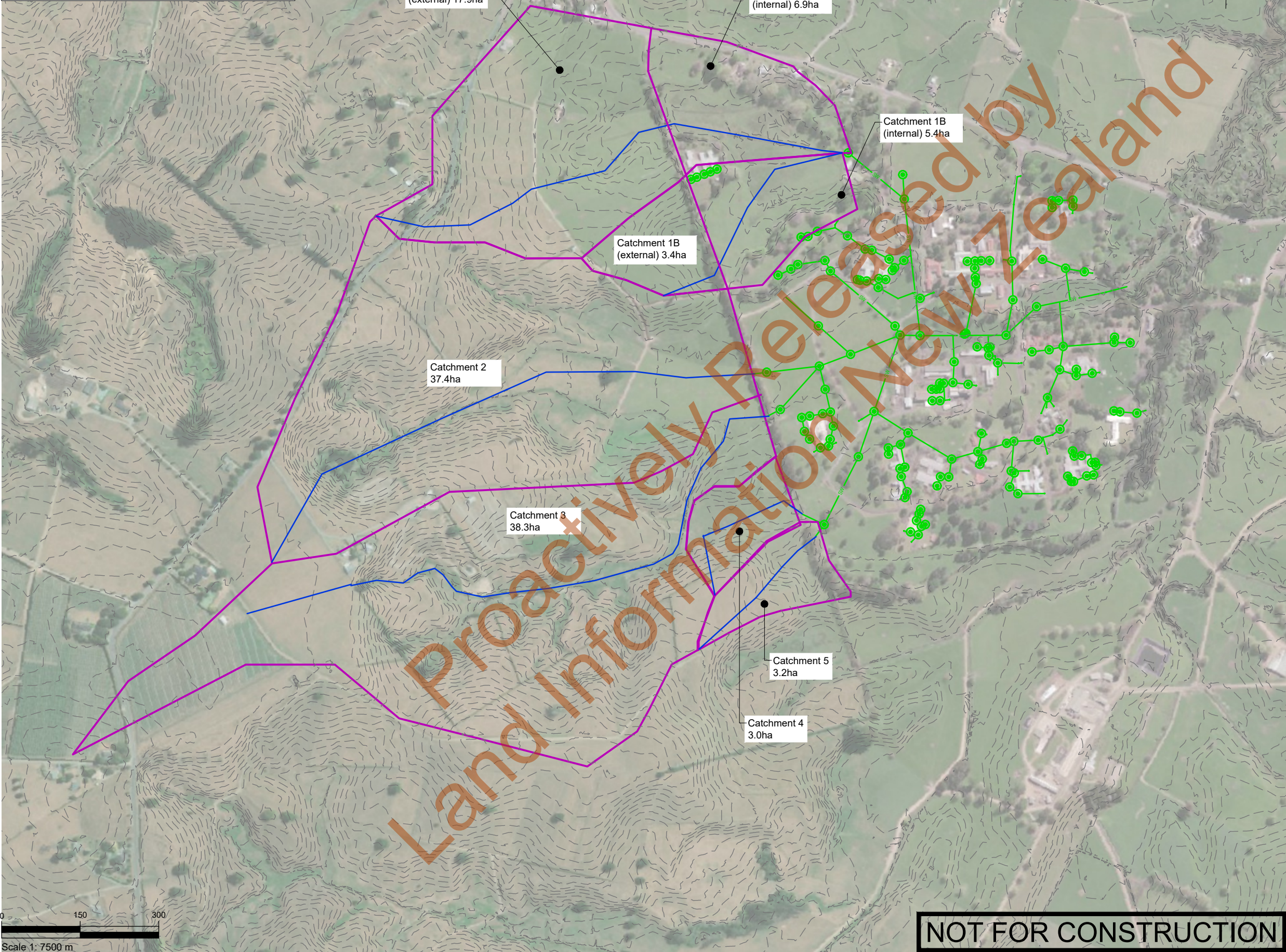
LIST OF DRAWINGS		5/11/2024	07/11/2024
	ISSUE SET	1	2
DRAWING	DRAWING TITLE		
33205/PL001	EXISTING UPSTREAM STORMWATER CATCHMENT PLAN	-	-
33205/PL002	STORMWATER TRUNK MAIN LAYOUT PLAN	-	A
33205/PL003	STORMWATER SYSTEM CCTV SURVEY PLAN	-	-
33205/PL004	STORMWATER SYSTEM PIPE LINING - INDICATIVE WORKS PACKAGES 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

SURVEYED			APPROVED SF 24.09.24	DATE	
DESIGNED	TB	01.06.23			
DRAWN	FV	24.09.24			
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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BLENHEIM 03 428 3292

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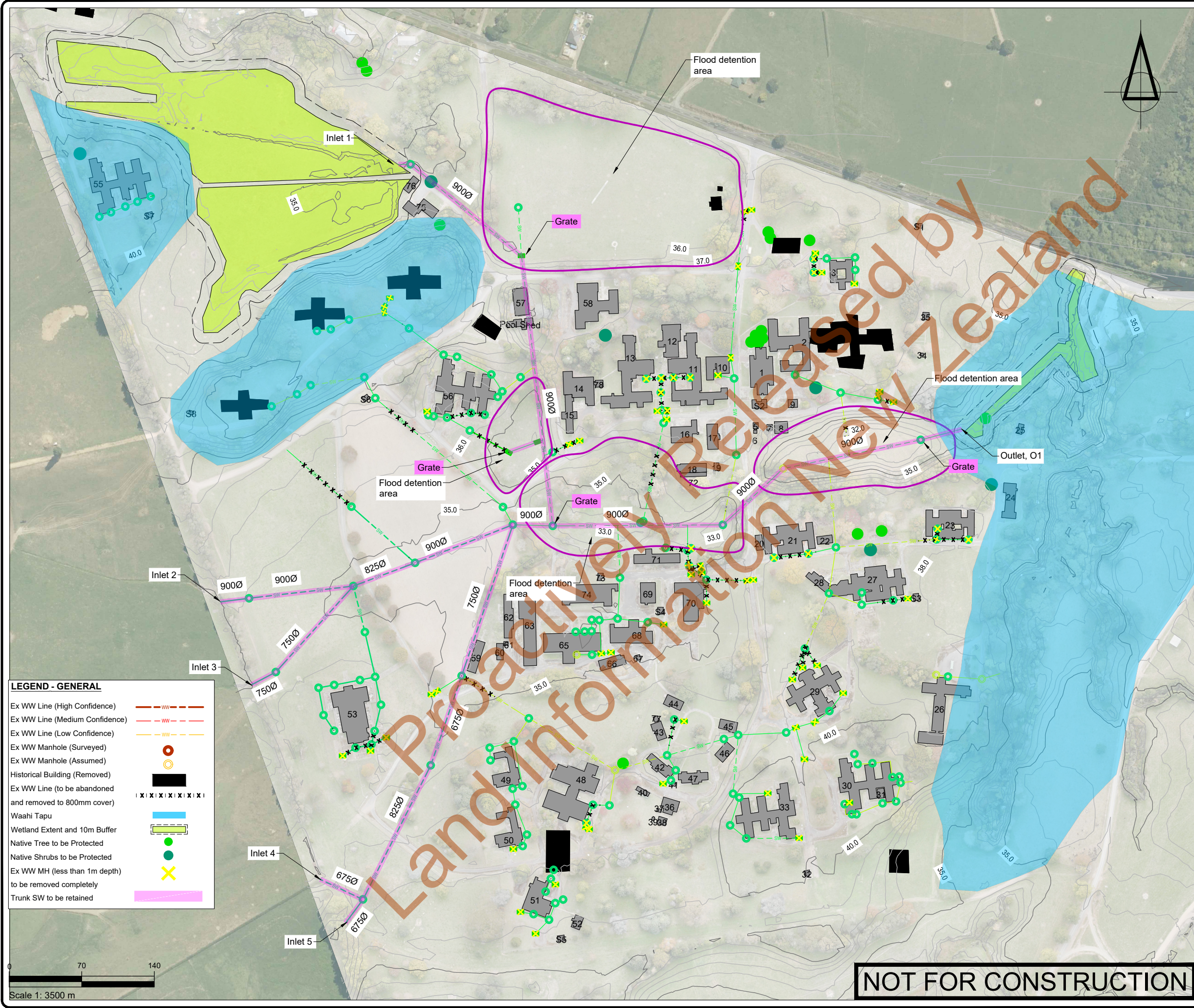
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DRAWING No 33205/PL001 REVISION -

P:\333 series\33205 Tokanui Infrastructure\03 Drawings\33205-PL002.dwg, I:\ohra, 11/7/2024 1:54 pm



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)	○
Historical Building (Removed)	■
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 to be retained	—


SURVEYED	TB	01.06.23	APPROVED	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

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PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
STORMWATER TRUNK MAIN
LAYOUT PLAN



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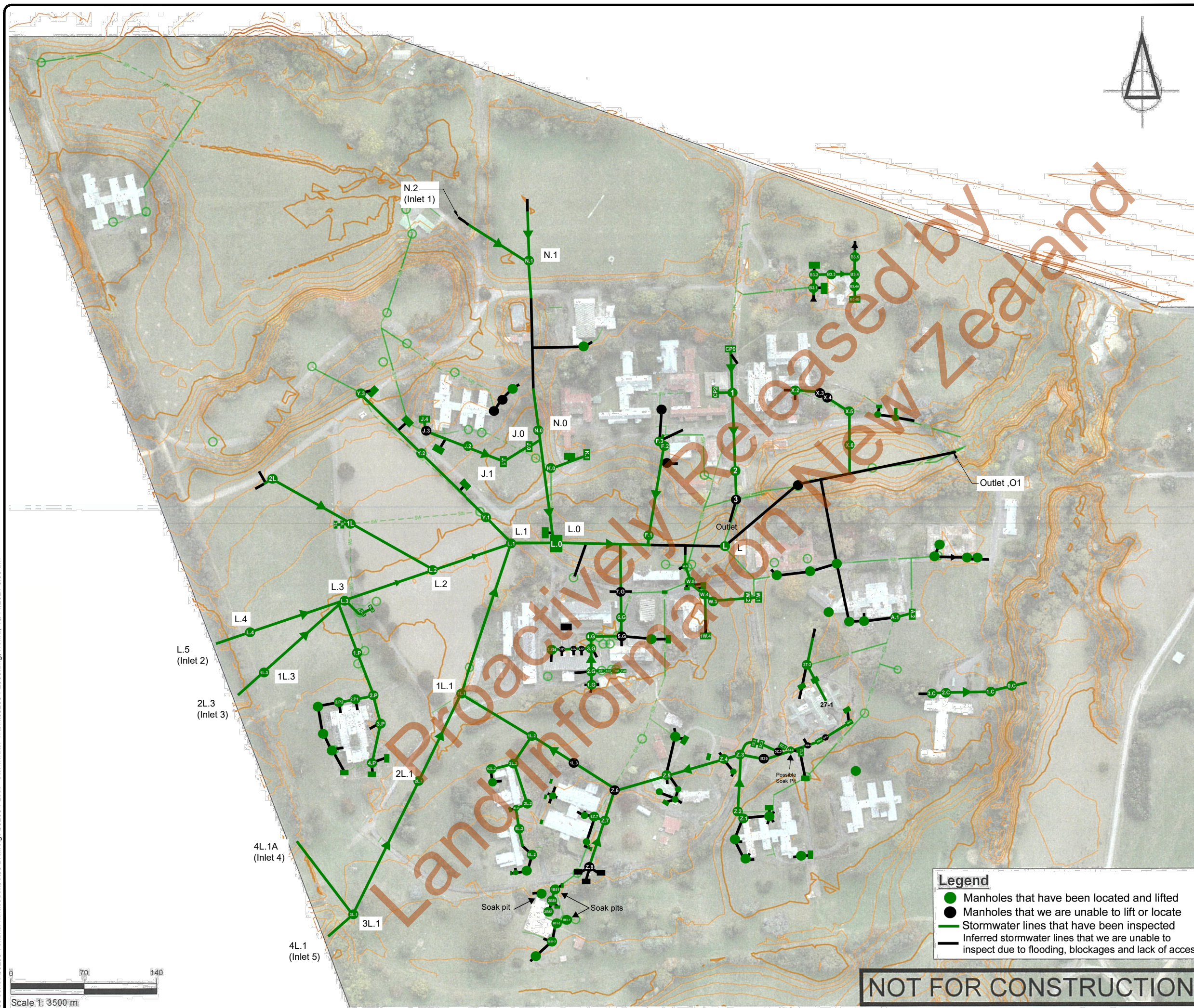
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DRAWING No 33205/PL002	REVISION A

[illegible]

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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TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER SYSTEM CCTV
SURVEY PLAN

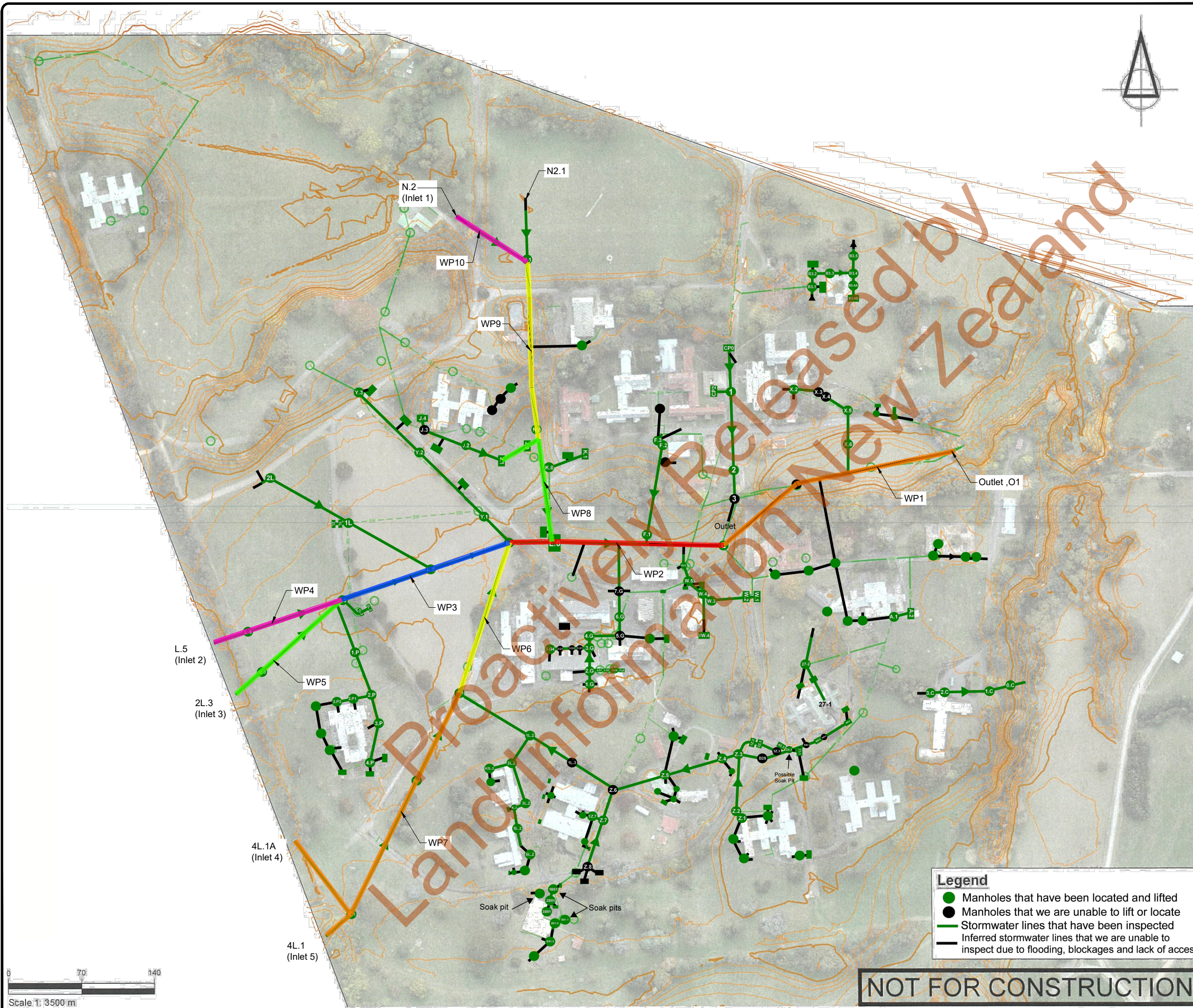
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DRAWING No	33205/PL003	REVISION

P:333 series33205 Tokanui Infrastructure\03 Drawings\33205-PL004.dwg, Ivohra, 7/11/2024 3:06 pm



- Legend**
- Manholes that have been located and lifted
 - Manholes that we are unable to lift or locate
 - Stormwater lines that have been inspected
 - Inferred stormwater lines that we are unable to inspect due to flooding, blockages and lack of access

NOT FOR CONSTRUCTION

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**
- 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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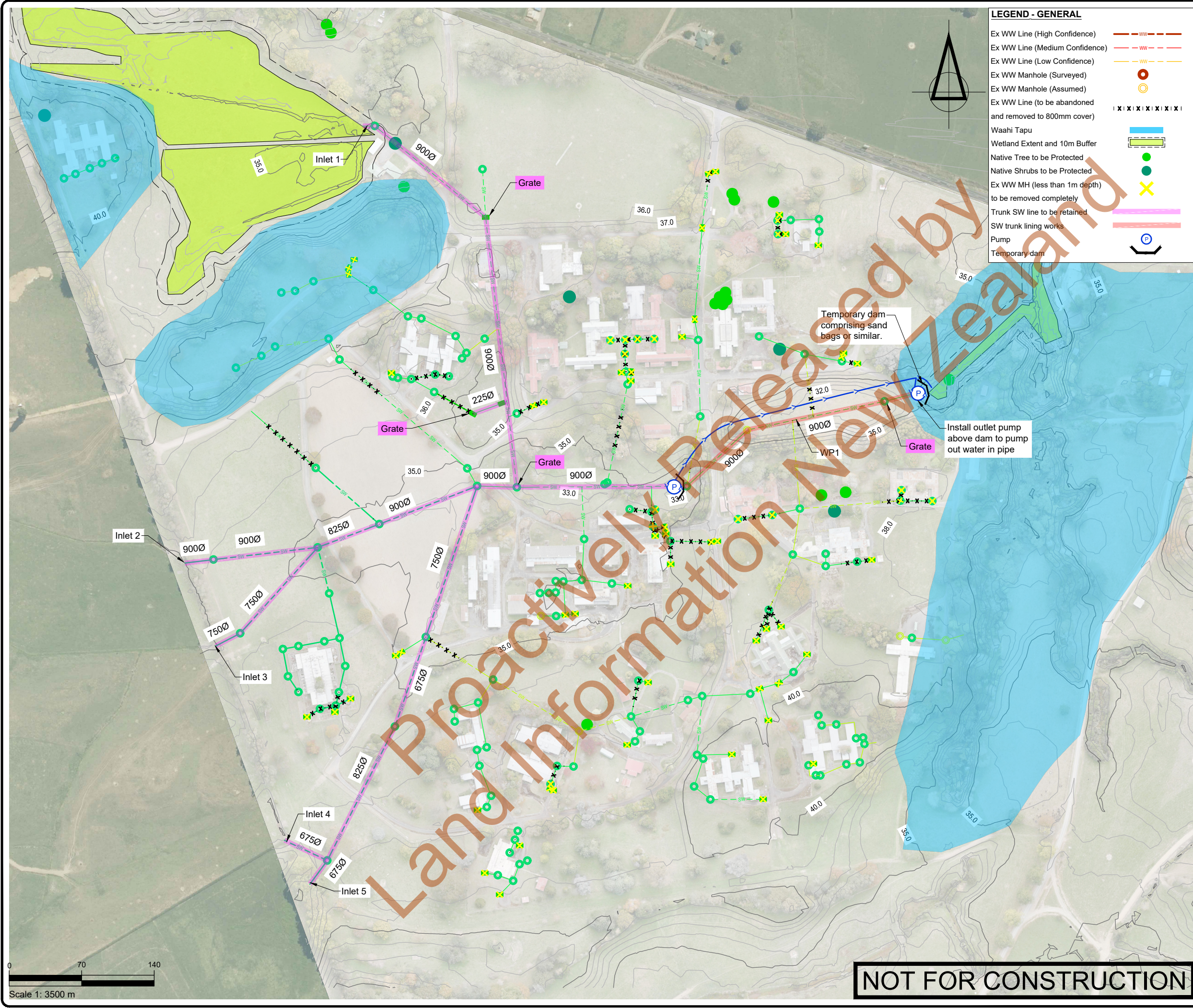
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DRAWING No 33205/PL004 **REVISION** A

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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	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

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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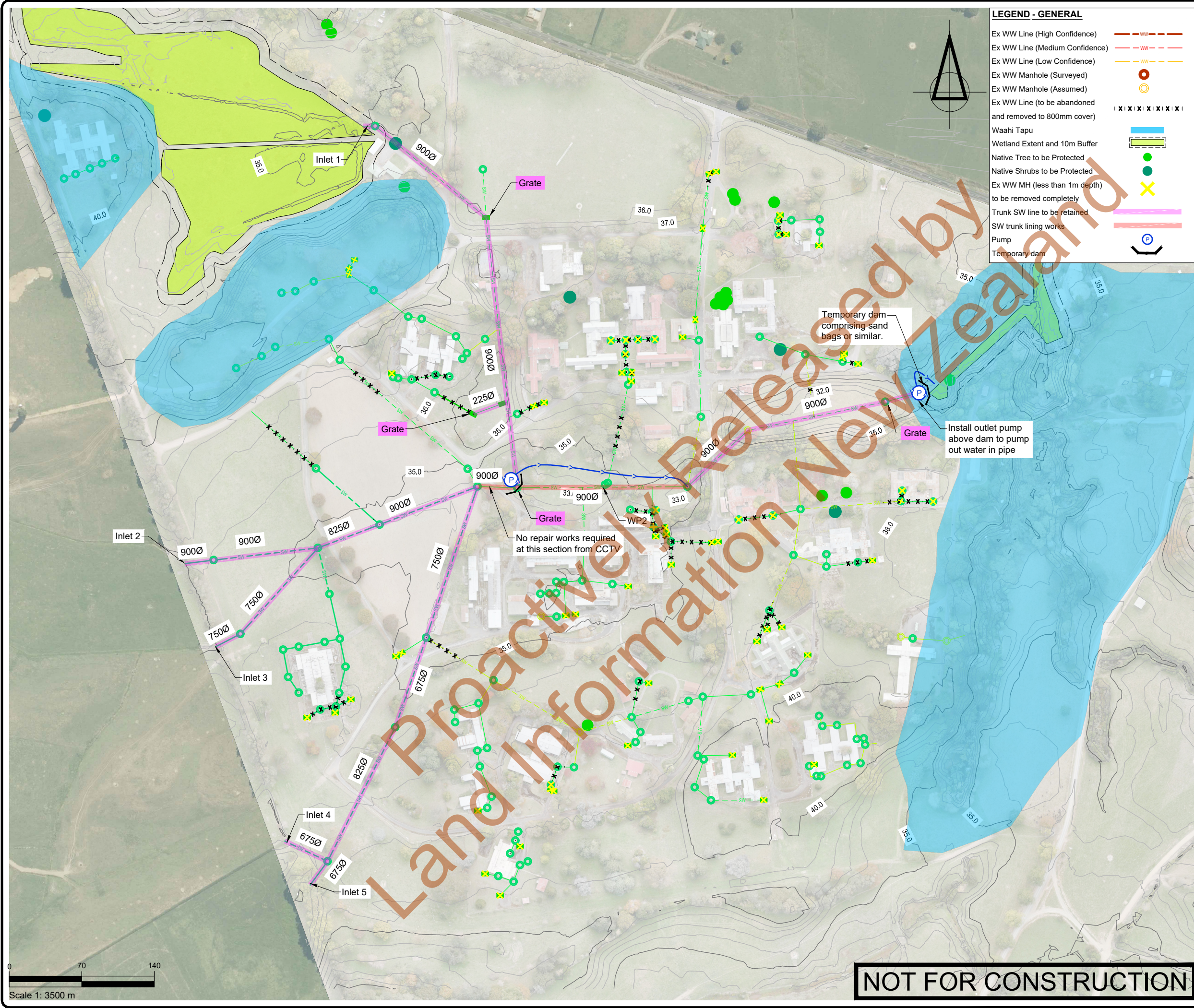
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DRAWING No	33205/PL100
REVISION	A

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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|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
DRAWN	FV	24.09.24			
CHECKED	SF	24.09.24			
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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 2 (WP2)



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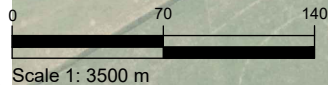
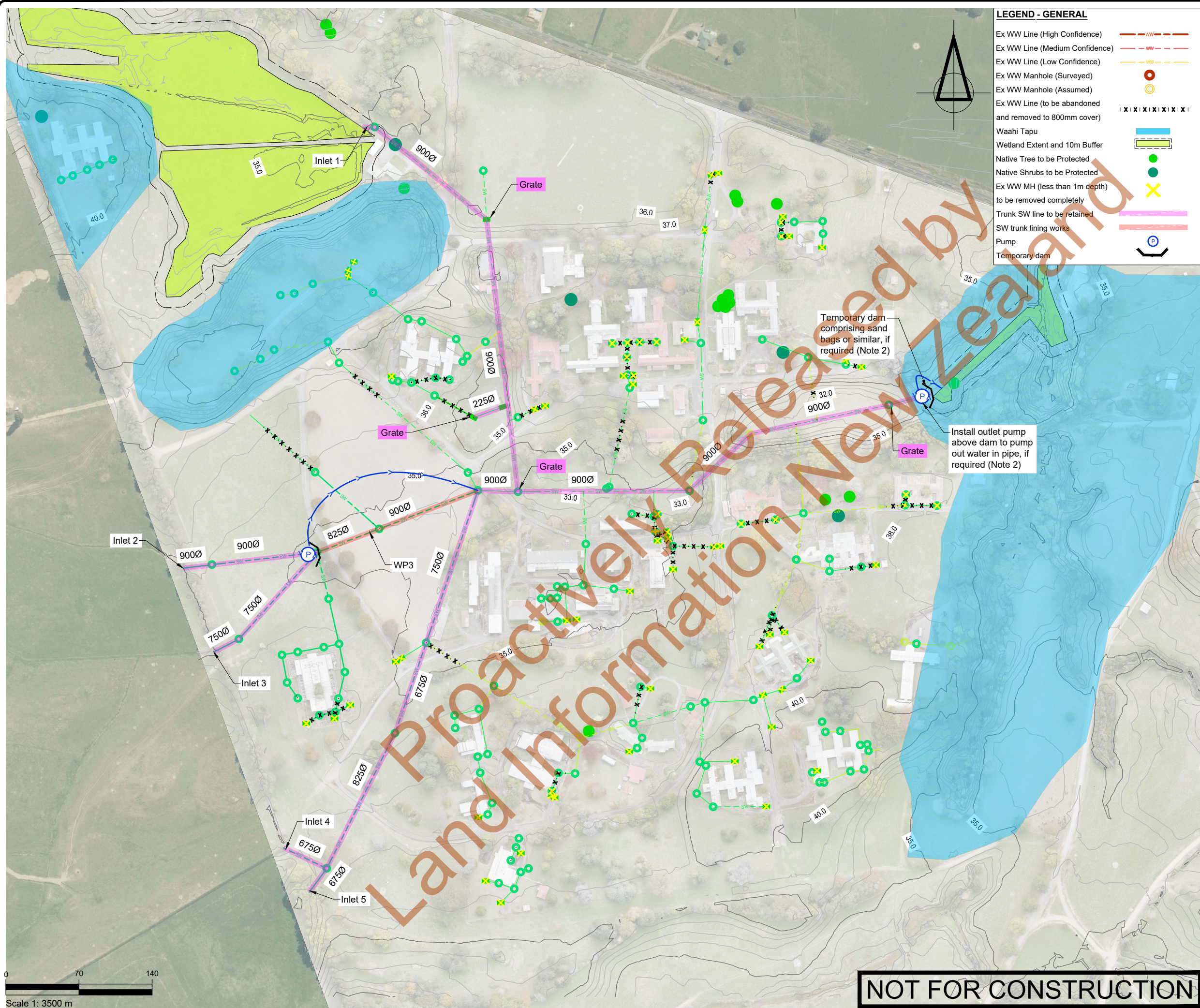
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DRAWING No	33205/PL101	REVISION	A

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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-
- 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 SF 24.09.24	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
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- 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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HORIZONTAL INFRASTRUCTURE

TITLE
STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 3 (WP3)

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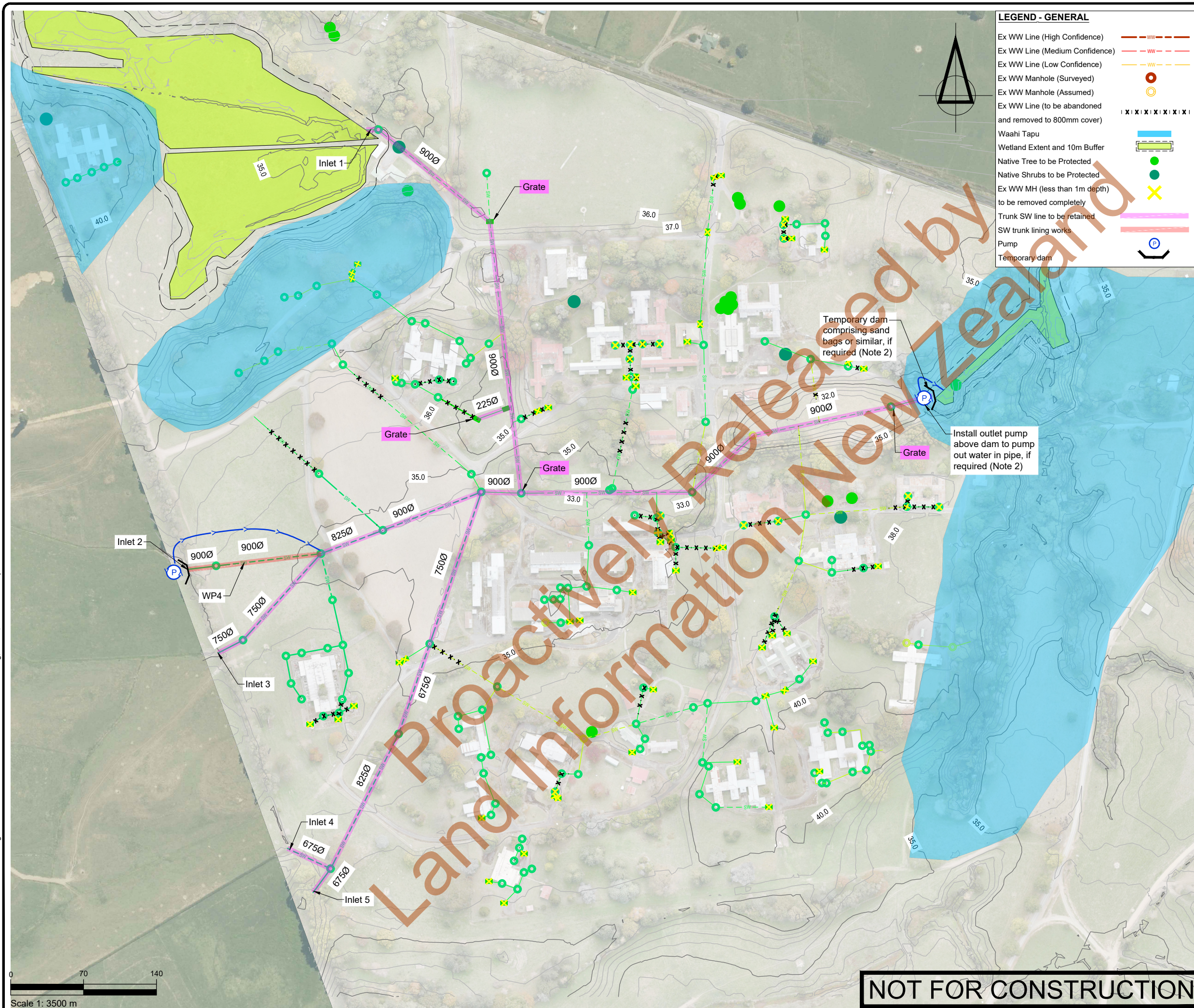
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DRAWING No	33205/PL102
REVISION	A

NOT FOR CONSTRUCTION

[illegible]

- 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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TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE

STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 4 (WP4)

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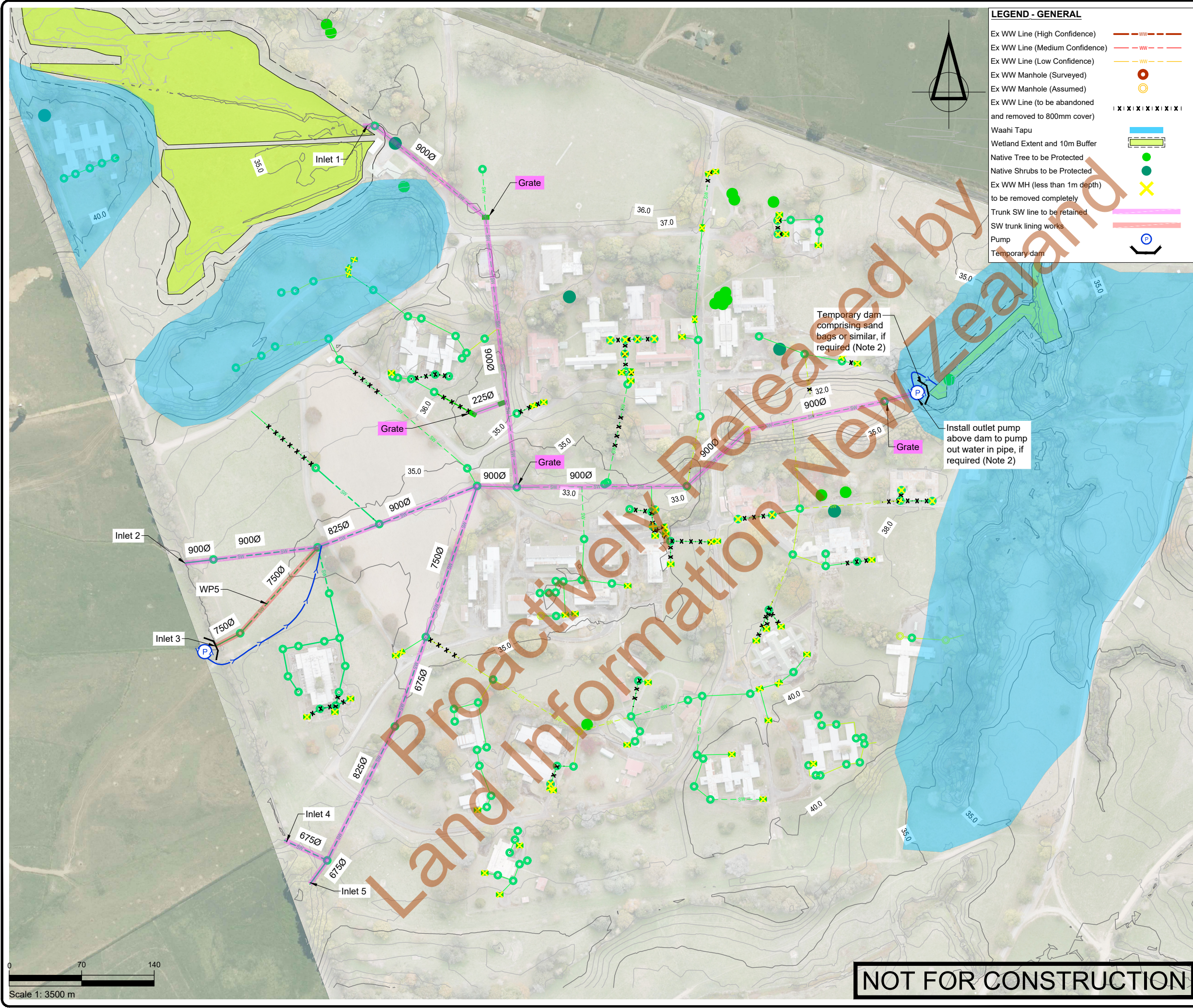
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SCALE	(A3)
DRAWING No	REVISION
33205/PL103	A

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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|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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TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

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

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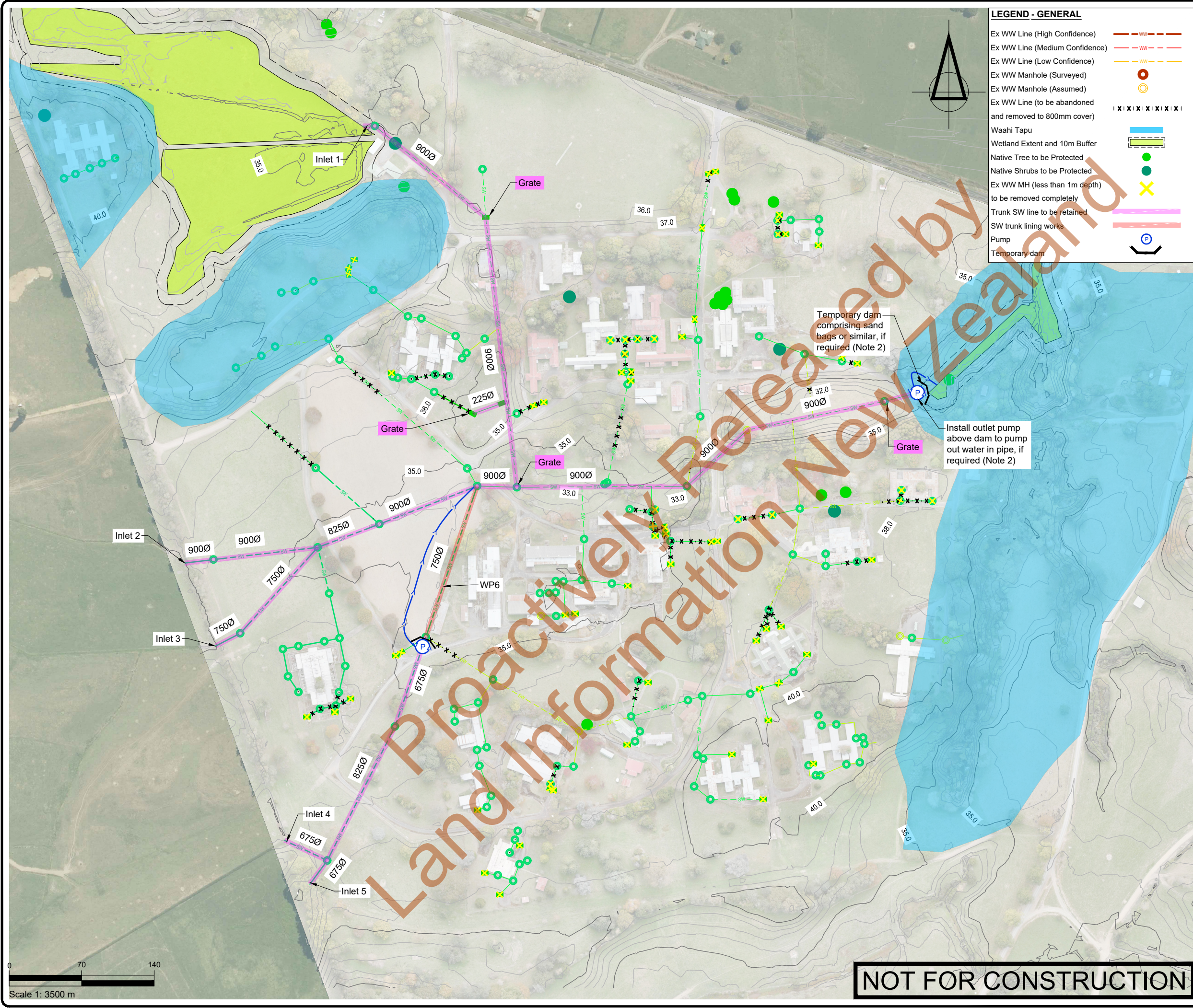
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DRAWING No	33205/PL104
REVISION	A

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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		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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HORIZONTAL INFRASTRUCTURE

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



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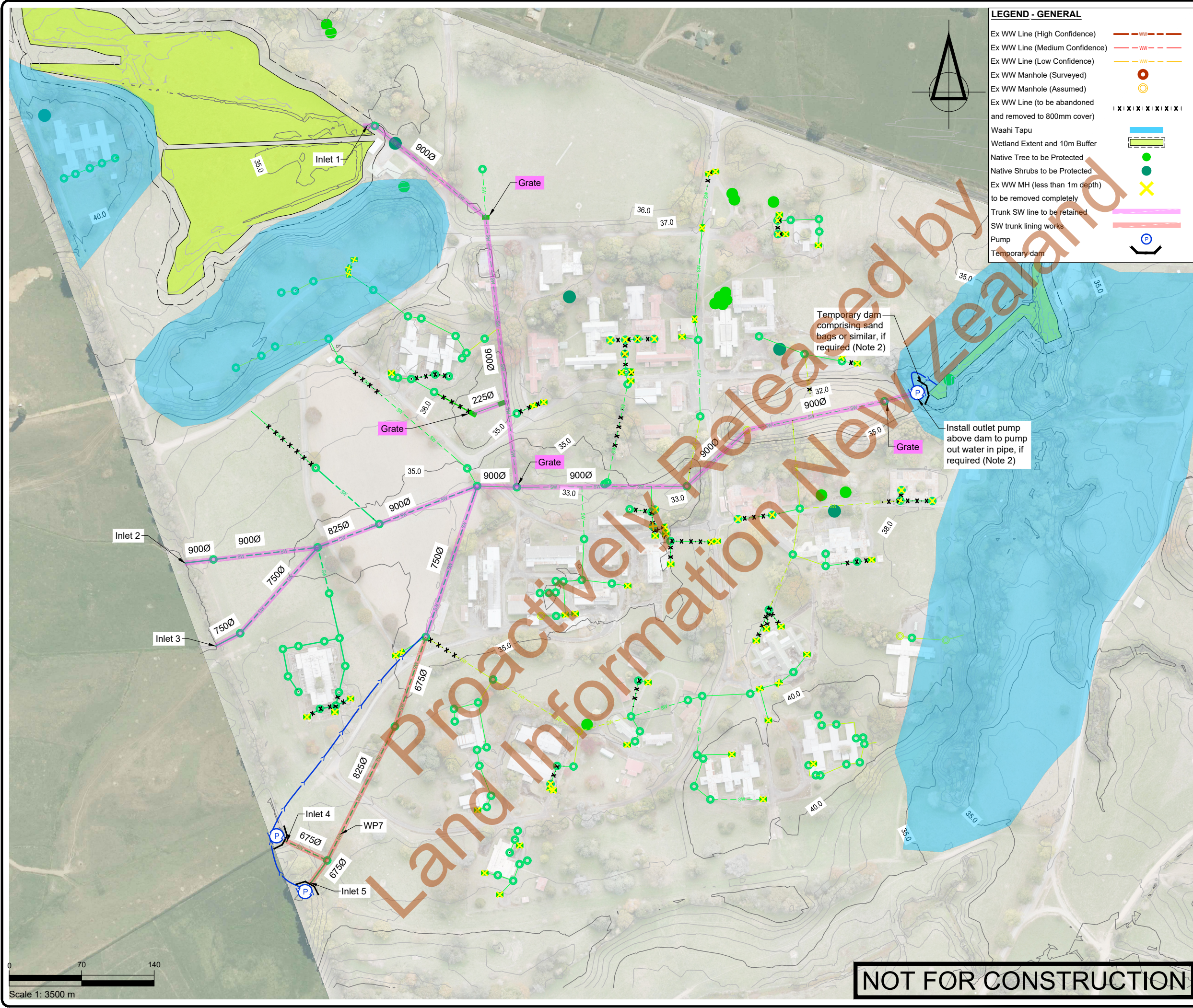
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LEGEND - GENERAL

- 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|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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PROJECT
TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 7 (WP7)



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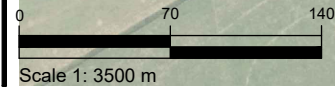
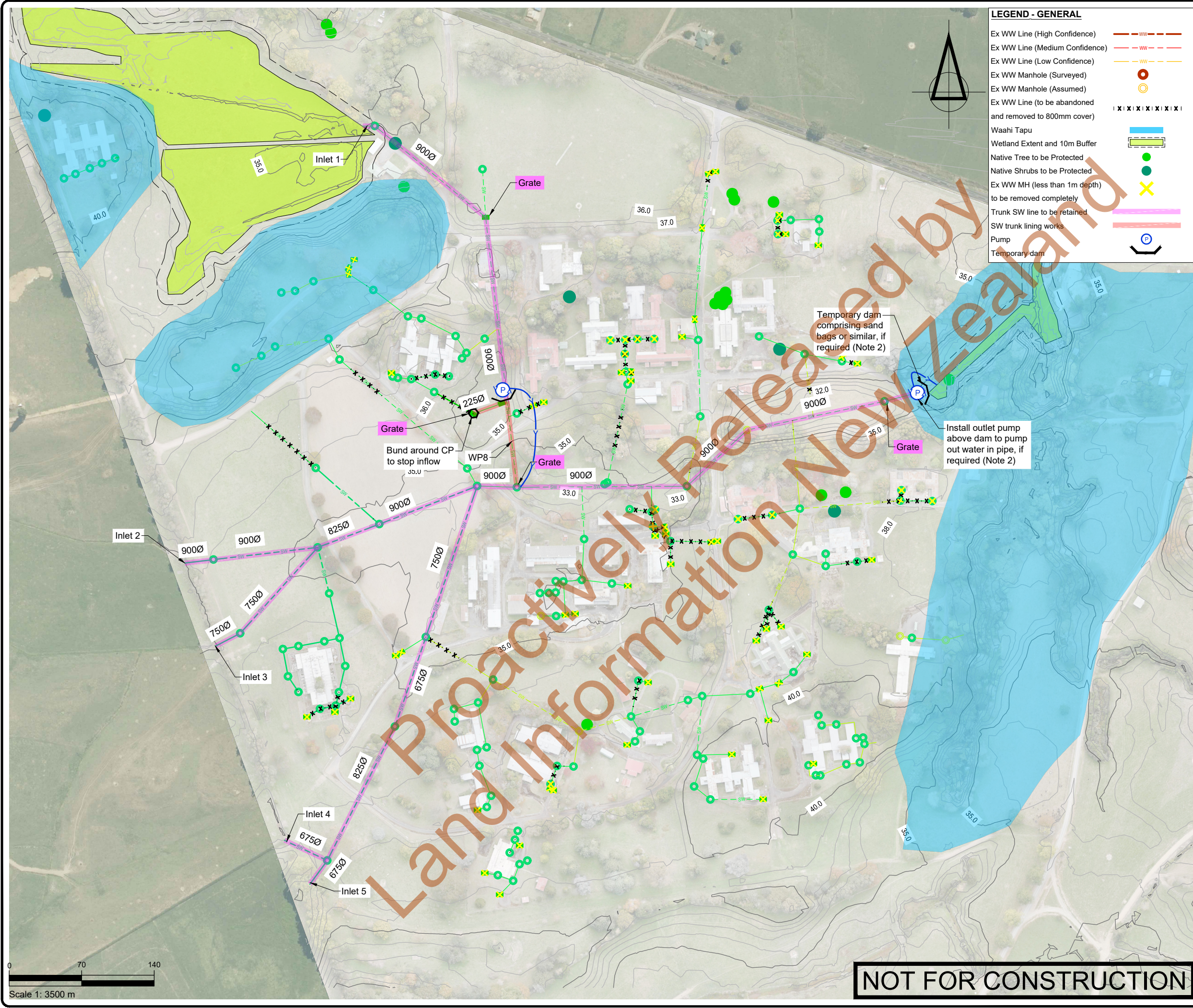
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LEGEND - GENERAL

- 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|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
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- 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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TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

TITLE
STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 8 (WP8)

**Fraser Thomas**

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HAWKE'S BAY 06 211 2766

CHRISTCHURCH 03 358 5936

BLENHEIM 03 428 3292

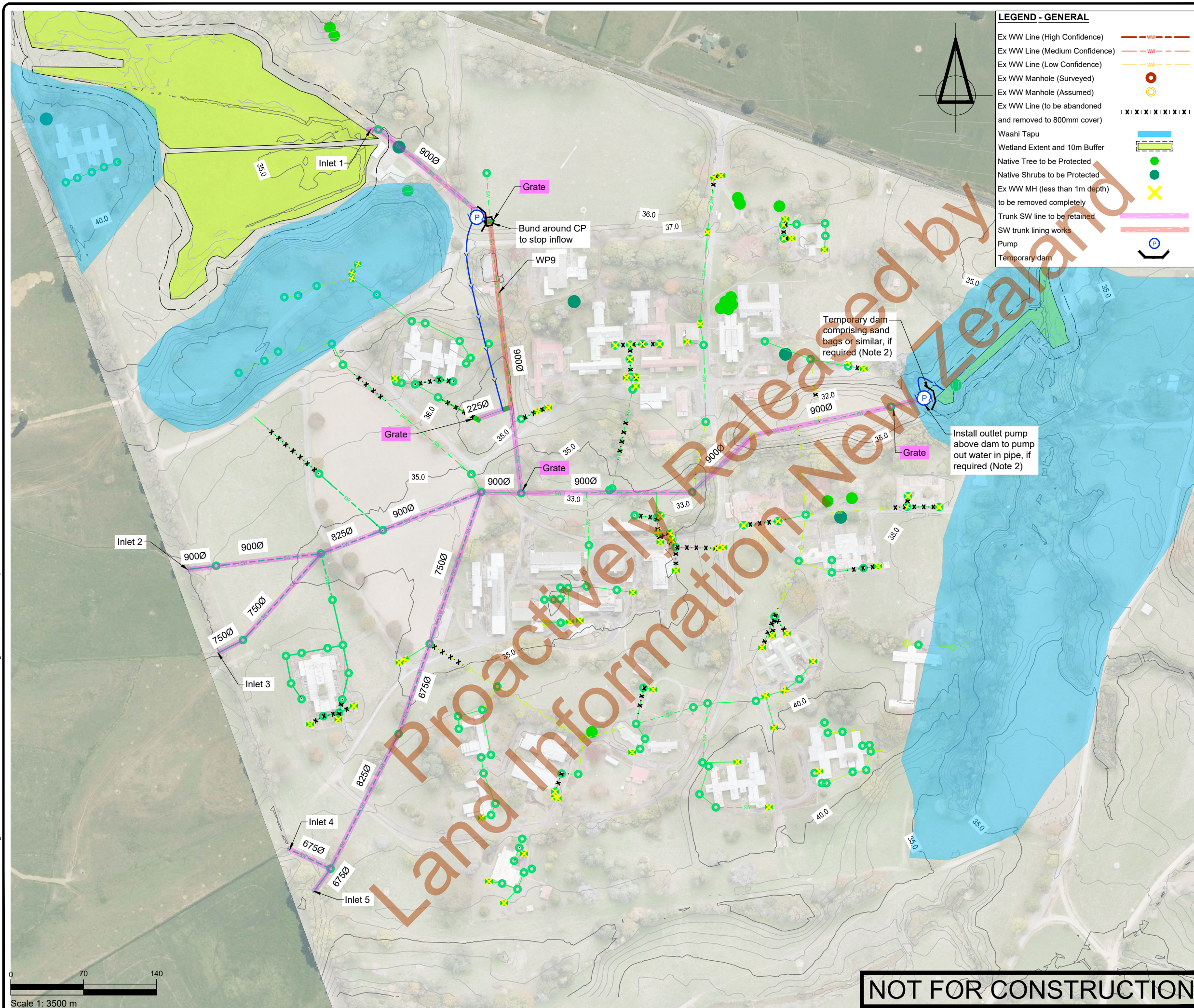
NELSON 03 222 1132

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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 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 9 (WP9)



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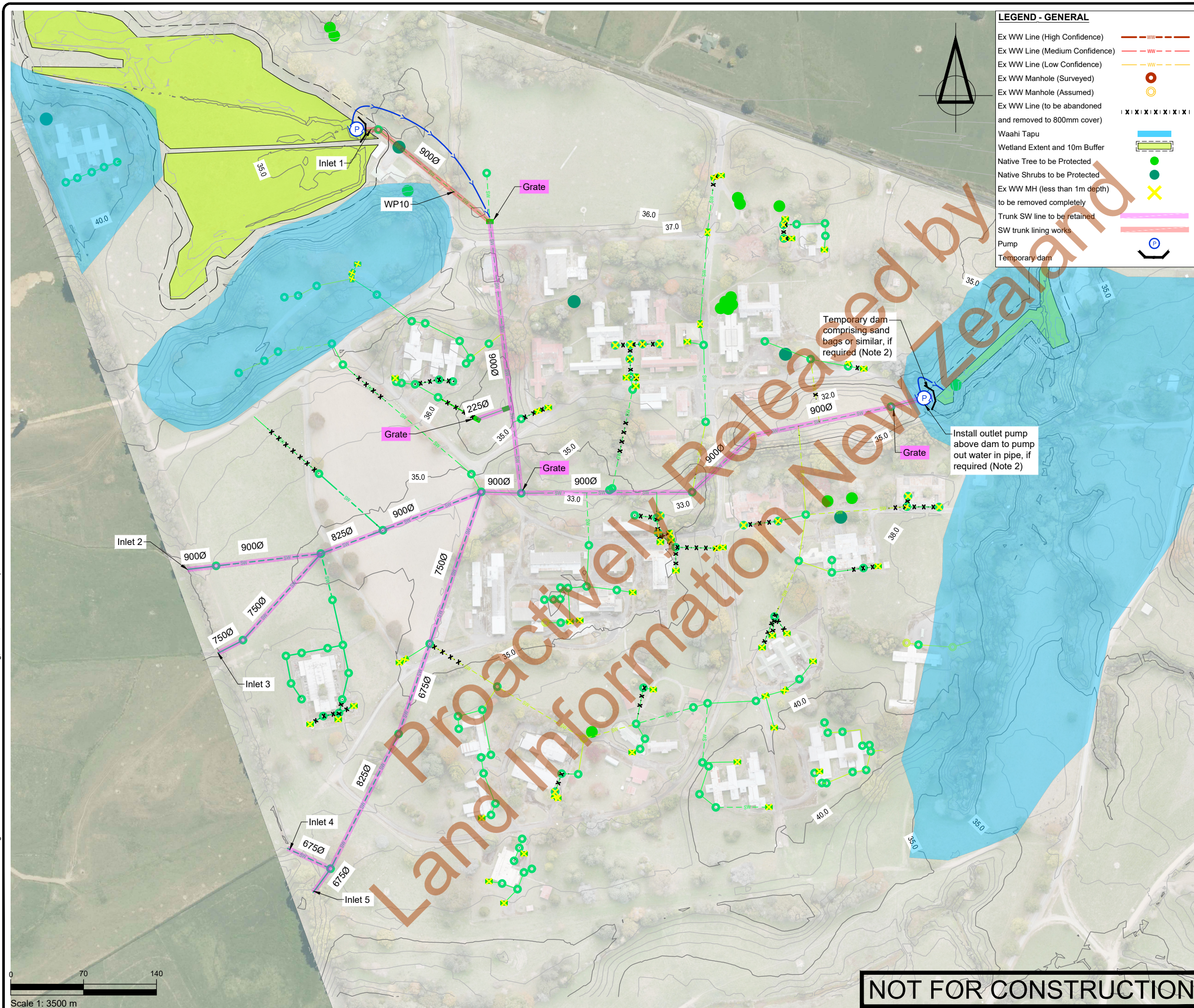
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[illegible]

- 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.

TOITŪ TE WHENUA - LINZ

TOKANUI HOSPITAL
HORIZONTAL INFRASTRUCTURE

STORMWATER SYSTEM PIPE
LINING WORKS - STAGE 10
(WP10)



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