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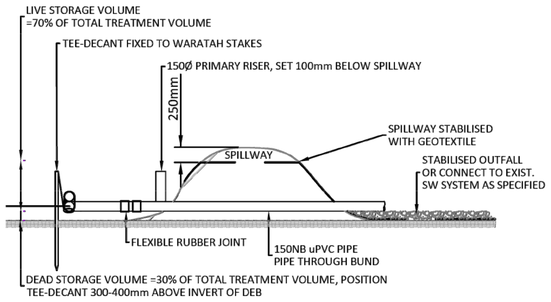
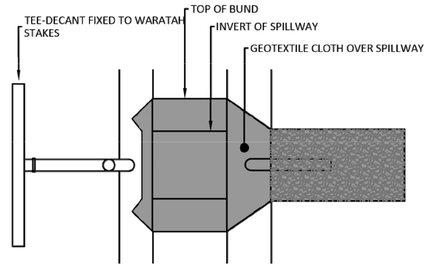
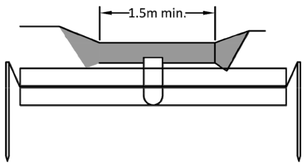


DECANTING EARTH BUND CROSS-SECTION



DECANTING EARTH BUND LAYOUT



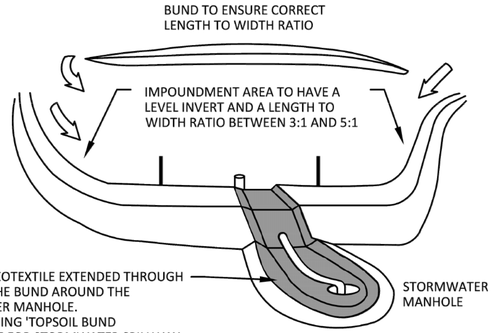
SPILLWAY ELEVATION

DECANTING EARTH BUND

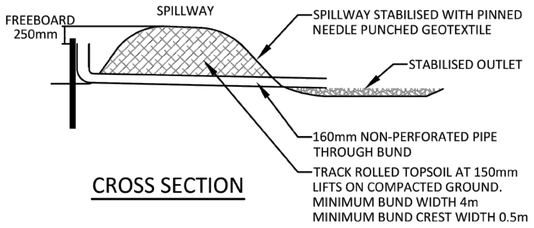
MAXIMUM CATCHMENT 0.3ha
2% VOLUME (60m^3 PER 0.3ha CATCHMENT)

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

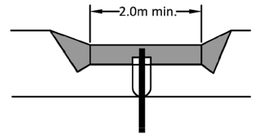
NOTE: THE DECANT HAS A 40mm DIAMETER PVC PIPE WITH A 1.3m LONG ARM (INCLUDING FLEXIBLE JOINT), A 0.5m LONG DECANT AND 20 x 10mm DIAMETER EQUALLY SPACED HOLES POSITIONED HORIZONTALLY AT 10 AND 2 OCLOCK



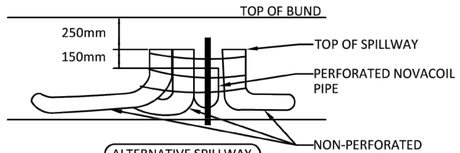
DECANTING EARTH BUND



CROSS SECTION



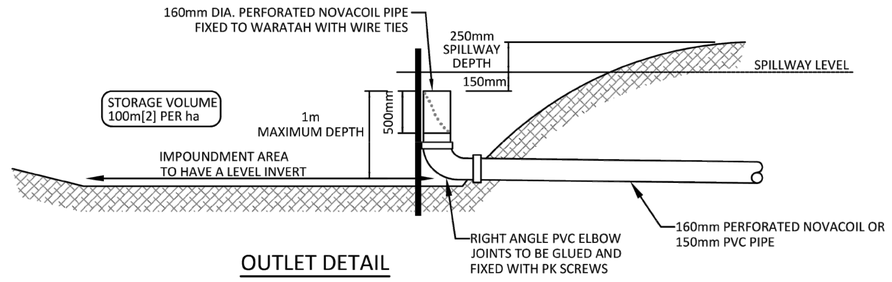
ELEVATION



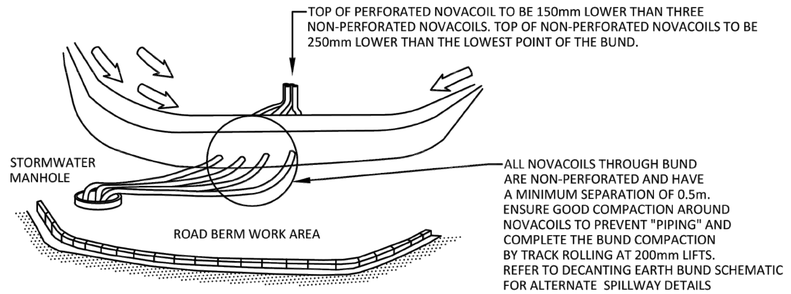
ALTERNATIVE SPILLWAY DESIGN USING NON-PERFORATED NOVACOILS

1% DECANTING TOPSOIL BUND

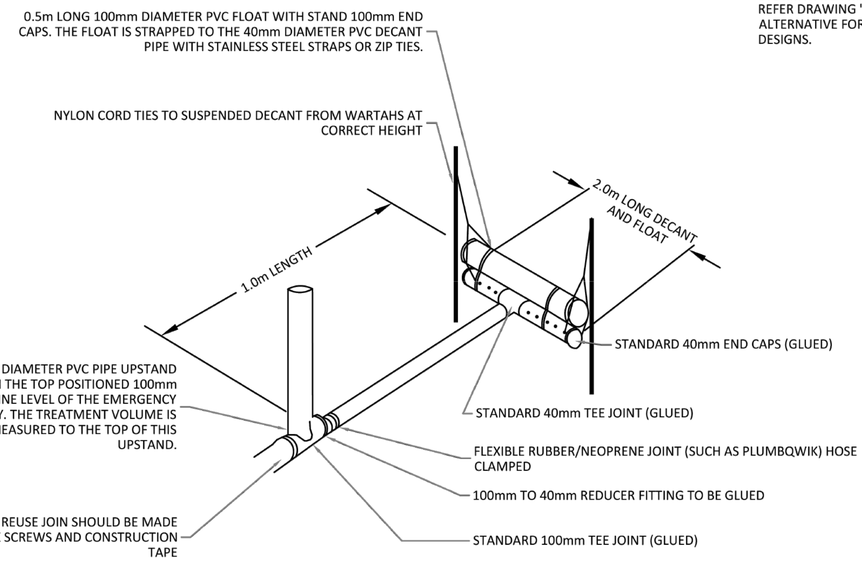
MAXIMUM CATCHMENT IS 1ha IF THE MAXIMUM SLOPE IS LESS THAN 10% AND THE SLOPE LENGTH IS LESS THAN 200m, OTHERWISE THE MAXIMUM CATCHMENT IS 0.3ha. DECANTING TOPSOIL BUNDS ARE ONLY TO BE USED FOR TOPSOILED/STABILISED CATCHMENTS.



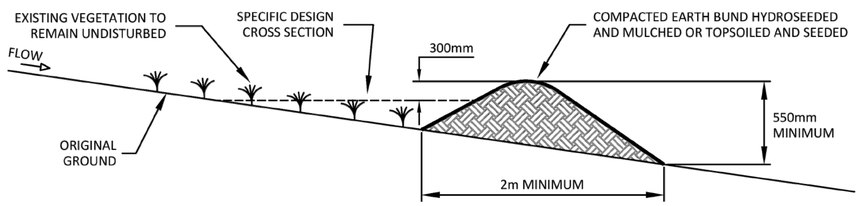
OUTLET DETAIL



DECANTING TOPSOIL BUND



40mm DECANT WITH UPSTAND FOR DECANTING EARTH BUND



CLEANWATER RUNOFF DIVERSION BUND - CROSS SECTION

ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT
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No.	Revision	By	Chk	Appd	Date
B	FOR FTAA SUBSTANTIVE CONSENT APPLICATION	SZ	RR	CJB	30.10.26
A	REVISED CONCEPT DESIGN	SZ	RR	CJB	28.09.26

Design	L.CAMERON	21.08.26	Approved For Construction*
Drawn	A.FRANCOMBE	21.08.26	
Dsg Verifier	C.BREYTENBACH	30.10.26	
Drg Check	R.GARCIA	28.10.26	Date

Original Scale (A1) N.T.S
Reduced Scale (A3) N.T.S
* Refer to Revision 1 for Original Signature

Client: Waipapa Taumata Rau University of Auckland

Project: UNIVERSITY OF AUCKLAND STUDENT CENTRE AND LIBRARY

Title: EROSION AND SEDIMENT CONTROL DETAILS SHEET 3

Discipline: CIVIL ENGINEERING

Drawing No.: 5013381-CA-2103

Rev.: B

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Document No.: 5013381-CA-2103.DWG

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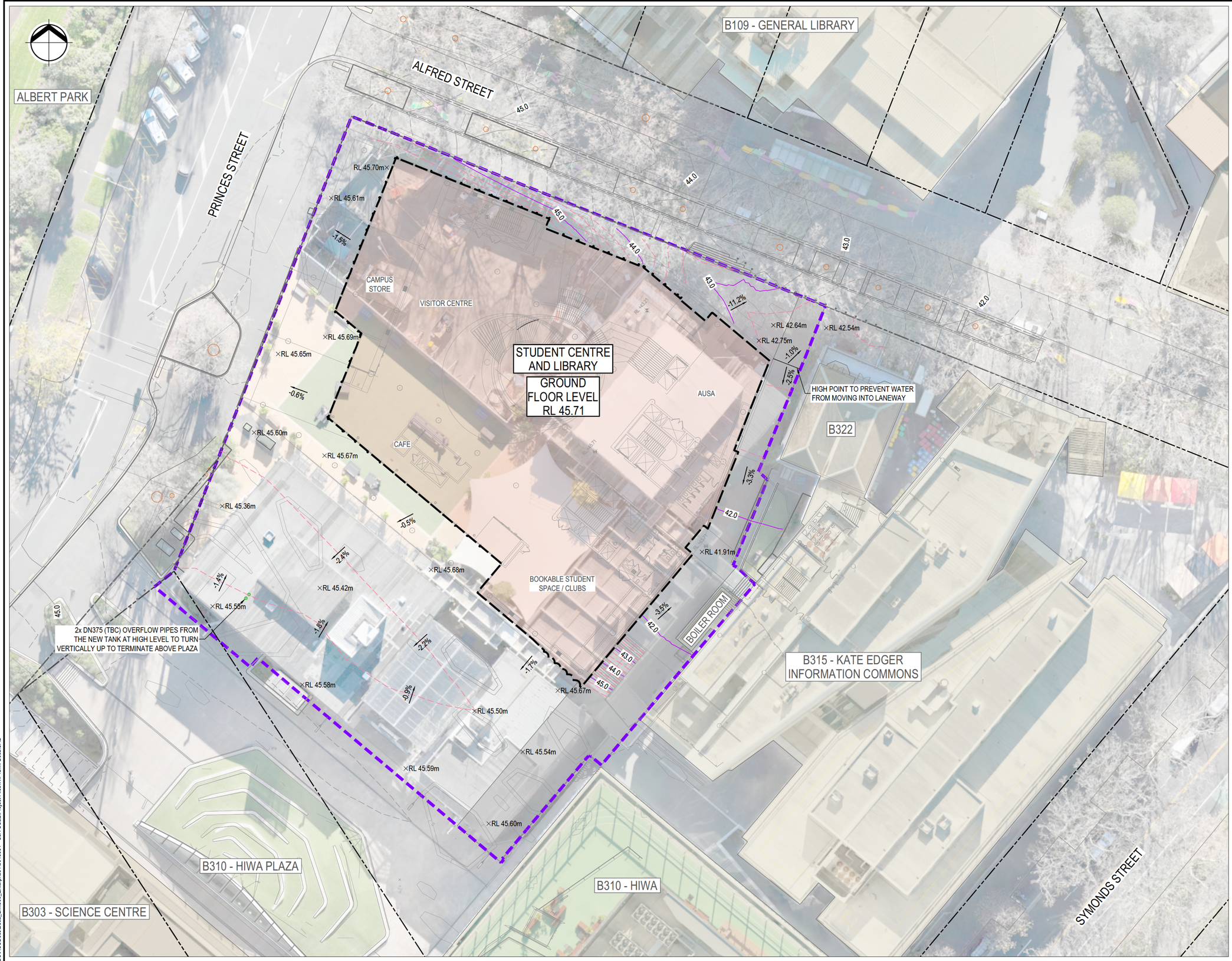

LEGEND:

- EXTENT OF WORKS
- CADASTRAL BOUNDARY
- NEW BUILDING OUTLINE
- NEW BUILDING
- EXISTING BUILDINGS
- × RL ???m — NEW FINISHED SURFACE LEVEL
- 41.0 — EXISTING CONTOUR MAJOR (1.0m)
- 40.75 — EXISTING CONTOUR MINOR (0.25m)
- 41.0 — NEW CONTOUR MAJOR (1.0m)
- 40.75 — NEW CONTOUR MINOR (0.25m)
- EXISTING TREE TRUNK & DRIPLINE

NOTES:

1. REFER TO DRAWING 5013881-CA-0001 FOR GENERAL NOTES.
2. REFER TO BUILDING SERVICES DRAWINGS FOR INTERNAL BUILDING PIPEWORK.
3. REFER TO TOPOGRAPHICAL SURVEY 7119-600-01, REVISION 1 FROM B. N. WALKER SURVEYING 2016 LTD FOR EXISTING SERVICES INFORMATION.

ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT
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No.	Revision	By	Chk	Appd	Date
B	FOR FTAA SUBSTANTIVE CONSENT APPLICATION	SZ	RR	CJB	30.10.26
A	REVISED CONCEPT DESIGN	SZ	RR	CJB	28.09.26

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design	S.ZHU	21.08.26	Approved For Construction*
Drawn	A.FRANCOMBE	21.08.26	
Dsg Verifier	C.BREYTENBACH	30.10.26	
Drg Check	R.GARCIA	28.10.26	Date

* Refer to Revision 1 for Original Signature

Client: Waipapa Taumata Rau University of Auckland

Project: UNIVERSITY OF AUCKLAND STUDENT CENTRE AND LIBRARY

Title: DESIGN SITE LAYOUT

Discipline: CIVIL ENGINEERING

Drawing No.: 5013381-CA-3000

Rev.: B

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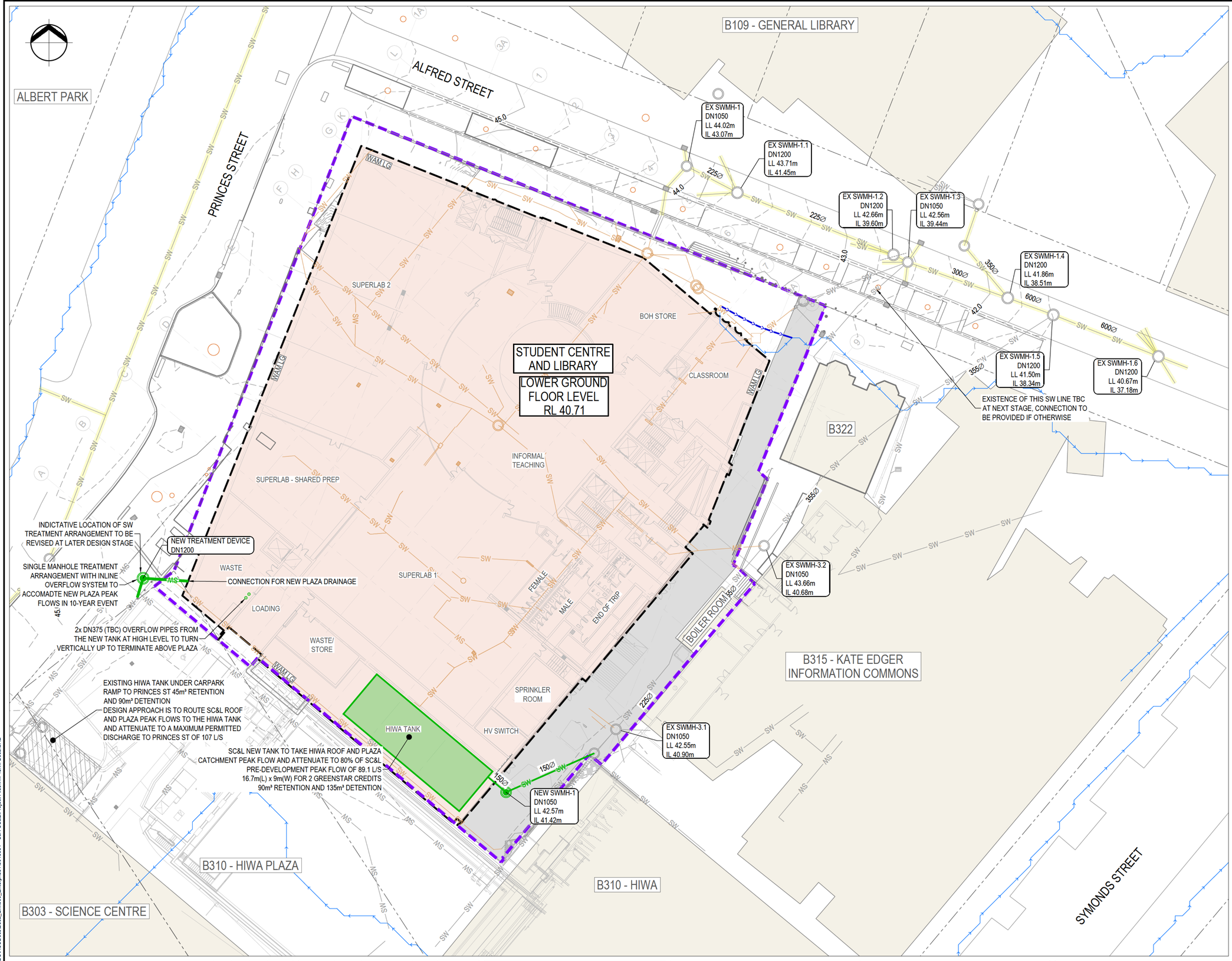

LEGEND:

- EXTENT OF WORKS
- CADASTRAL BOUNDARY
- NEW BUILDING OUTLINE
- NEW BUILDING
- EXISTING BUILDINGS
- PUBLIC SERVICE
- EXISTING STORMWATER
- EXISTING STORMWATER CHANNEL
- EXISTING STORMWATER TO BE ABANDONED/REMOVED
- NEW STORMWATER
- EXISTING COMBINED STORMWATER/WASTEWATER
- NEW PAVED AREA
- EXISTING TREE TRUNK & DRIPLINE
- EXISTING OVERLAND FLOW PATH (FROM AC GIS)
- NEW OVERLAND FLOW PATH

NOTES:

1. REFER TO DRAWING 5013881-CA-0001 FOR GENERAL NOTES.
2. REFER TO BUILDING SERVICES DRAWINGS FOR INTERNAL BUILDING PIPEWORK.
3. REFER TO TOPOGRAPHICAL SURVEY 7119-600-01, REVISION 1 FROM B. N. WALKER SURVEYING 2016 LTD FOR EXISTING SERVICES INFORMATION.
4. PRIOR TO ABANDONMENT, VERIFY WHETHER ANY EXISTING STORMWATER CONNECTIONS RECEIVE LIVE UPSTREAM FLOWS. WHERE LIVE, RECONNECT TO THE ADJACENT SW NETWORK AND MAINTAIN CONTINUITY OF SERVICE.

No.	Revision	By	Chk	Appd	Date
C	FOR FTAA SUBSTANTIVE CONSENT APPLICATION	SZ	RR	CJB	30.10.26
B	REVISED CONCEPT DESIGN	SZ	RR	CJB	28.09.26
A	CONCEPT DESIGN	SZ	RR	CJB	24.07.26

Original Scale (A1)	1:250	Design	S.ZHU	21.08.26
Reduced Scale (A3)	1:500	Drawn	A.FRANCOMBE	21.08.26
		Dsg Verifier	C.BREYTENBACH	30.10.26
		Drg Check	R.GARCIA	28.10.26

Approved For Construction* Date

* Refer to Revision 1 for Original Signature

Client: Waipapa Taumata Rau University of Auckland

Project: UNIVERSITY OF AUCKLAND STUDENT CENTRE AND LIBRARY

Title: STORMWATER LAYOUT

Discipline: CIVIL ENGINEERING

Drawing No.: 5013381-CA-4000

Rev.: C

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Document No.: 5013381-CA-4000.DWG

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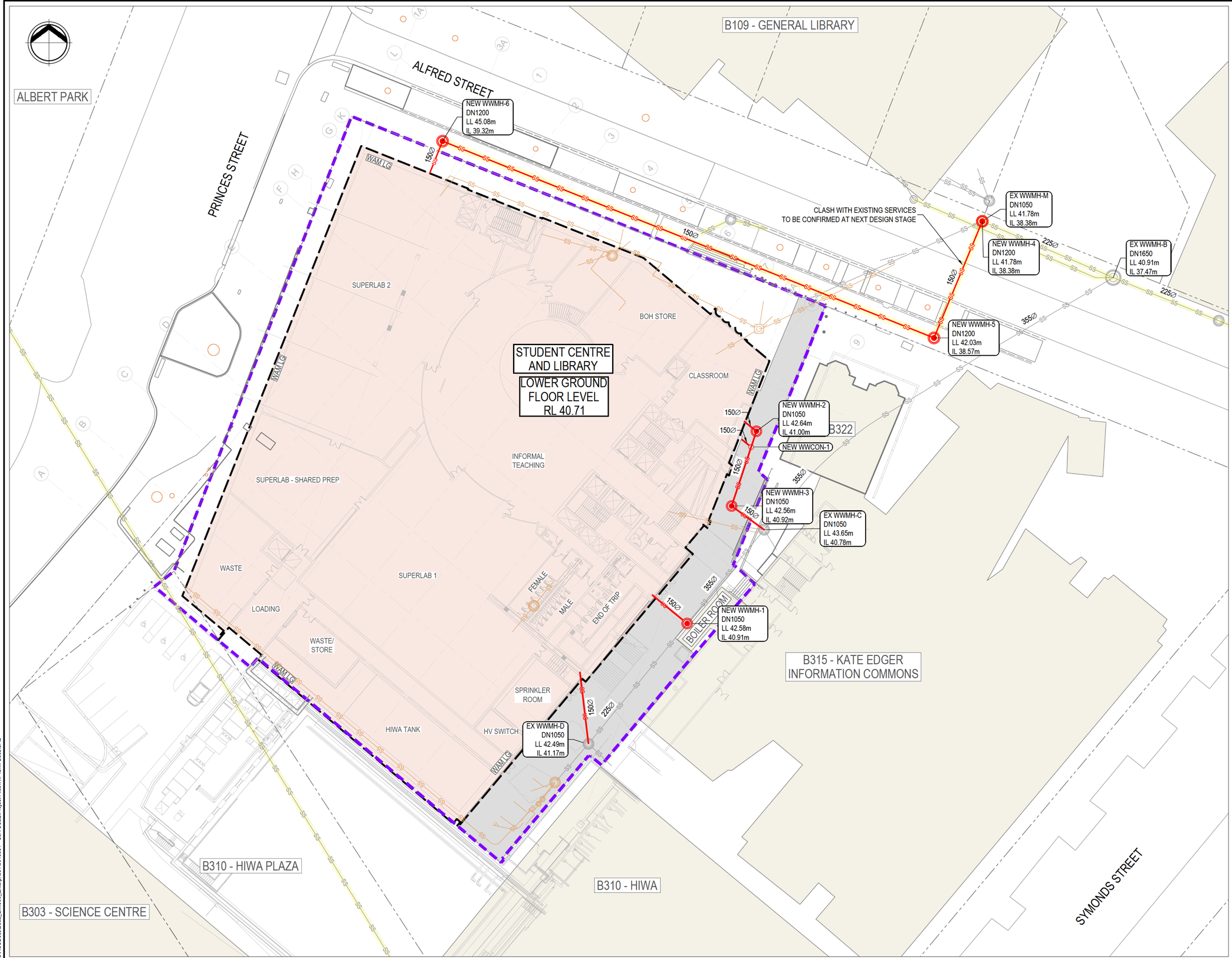

LEGEND:

- EXTENT OF WORKS
- CADASTRAL BOUNDARY
- NEW BUILDING OUTLINE
- NEW BUILDING
- EXISTING BUILDINGS
- PUBLIC SERVICE
- EXISTING WASTEWATER
- EXISTING WASTEWATER TO BE ABANDONED/REMOVED
- NEW WASTEWATER
- EXISTING COMBINED STORMWATER/WASTEWATER
- NEW PAVED AREA
- EXISTING TREE TRUNK & DRIPLINE

NOTES:

1. REFER TO DRAWING 5013881-CA-0001 FOR GENERAL NOTES.
2. REFER TO DRAWING 5013881-CA-5100 FOR LONGITUDINAL SECTIONS
3. REFER TO BUILDING SERVICES DRAWINGS FOR INTERNAL BUILDING PIPEWORK.
4. REFER TO TOPOGRAPHICAL SURVEY 7119-600-01, REVISION 1 FROM B. N. WALKER SURVEYING 2016 LTD FOR EXISTING SERVICES INFORMATION.
5. SC&L WASTEWATER CONNECTIONS DESIGNED TO TIE IN AT POINTS PROVIDED BY BUILDING SERVICES.
6. PRIOR TO ABANDONMENT, VERIFY WHETHER ANY EXISTING WASTEWATER CONNECTIONS RECEIVE LIVE UPSTREAM FLOWS. WHERE LIVE, RECONNECT TO THE ADJACENT WASTEWATER NETWORK AND MAINTAIN CONTINUITY OF SERVICE.
7. EXISTING PUBLIC WW NETWORK SHOWN IS BASED ON SURVEYED TOPOGRAPHICAL INFORMATION WHICH DIFFER FROM THE LOCATIONS SHOWN IN AUCKLAND COUNCIL GIS RECORDS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING ASSETS ON SITE PRIOR TO AND DURING CONSTRUCTION

ORIGINAL DRAWING IN COLOUR

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No.	Revision	By	Chk	Appd	Date
C	FOR FTAA SUBSTANTIVE CONSENT APPLICATION	SZ	RR	CJB	30.10.26
B	REVISED CONCEPT DESIGN	SZ	RR	CJB	28.09.26
A	CONCEPT DESIGN	SZ	RR	CJB	24.07.26

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design	S.ZHU	21.08.26	Approved For Construction* Date
Drawn	A.FRANCOMBE	21.08.26	
Drg Verifier	C.BREYTENBACH	30.10.26	
Drg Check	R.GARCIA	28.10.26	

* Refer to Revision 1 for Original Signature

Client: Waipapa Taumata Rau University of Auckland

Project: UNIVERSITY OF AUCKLAND STUDENT CENTRE AND LIBRARY

Title: WASTEWATER LAYOUT

Discipline: CIVIL ENGINEERING

Drawing No.: 5013381-CA-5000

Rev.: C

Document No.: 5013381-CA-5000.DWG

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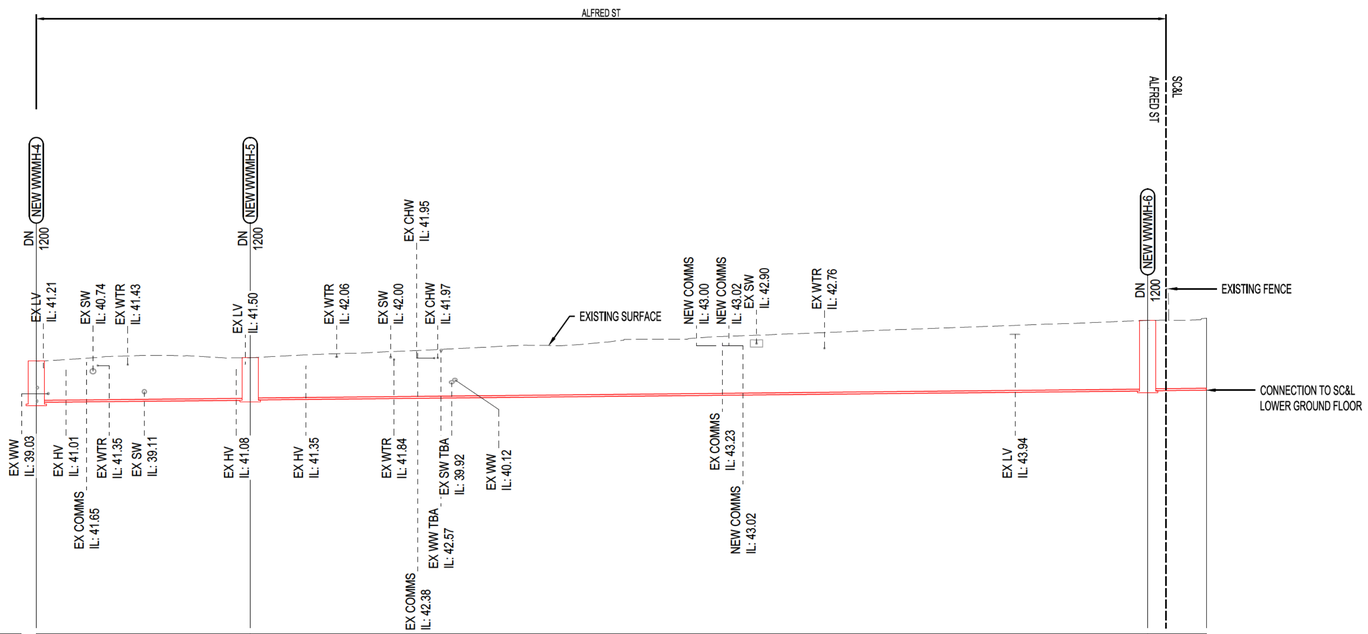

SCALES:
Horizontal 1:250
Vertical 1:250

DATUM 20.000

| | | |

Drawing Plotted: 30 Oct 2026 3:51 p.m.

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ALBERT PARK

PRINCES STREET

ALFRED STREET

B109 - GENERAL LIBRARY

WAM LG

SUPERLAB 2

BOH STORE

CLASSROOM

STUDENT CENTRE AND LIBRARY

LOWER GROUND FLOOR LEVEL RL 40.71

EXISTING PRIVATE UOA WATER SERVICES SHALL BE DIVERTED WHERE THEY CONFLICT WITH THE PROPOSED SC&L BUILDING PILES, OR WHERE DIVERSION IS REQUIRED DUE TO CONSTRUCTION CONSTRAINTS

NEW DN160 WATER SUPPLY FOR FIRE PROTECTION SYSTEM FROM PUBLIC WATER MAIN TO SC&L BUILDING

160Ø

EXISTING FIRE WATER CLASHING WITH SC&L BUILDING PILES TO BE REMOVED REUSE OF EXISTING FW CONNECTION TO BE INVESTIGATED AT NEXT DESIGN STAGE

INFORMAL TEACHING

SUPERLAB - SHARED PREP

WASTE

SUPERLAB 1

LOADING

WASTE/ STORE

FEMALE

MALE

END OF TRIP

BOILER ROOM/OM

SPRINKLER ROOM

HIWA TANK

HV SWITCH

B322

CHILLED WATER PIPES

B315 - KATE EDGER INFORMATION COMMONS

90Ø

NEW 90ID DOMESTIC WATER SUPPLY FROM UOA PRIVATE MAIN TO SC&L BUILDING ESTIMATED PEAK FLOW 9.5 L/S

B310 - HIWA PLAZA

B310 - HIWA

B303 - SCIENCE CENTRE

SYMONDS STREET

LEGEND:

- EXTENT OF WORKS
- CADASTRAL BOUNDARY
- NEW BUILDING OUTLINE
- NEW BUILDING
- EXISTING BUILDINGS
- PUBLIC SERVICE
- EXISTING WATER MAIN
- EXISTING FIRE WATER
- EXISTING WATER MAIN TO BE ABANDONED/REMOVED
- EXISTING FIRE WATER TO BE ABANDONED/REMOVED
- NEW WATER MAIN
- NEW FIRE WATER
- NEW PAVED AREA
- EXISTING TREE TRUNK & DRIPLINE

NOTES:

1. REFER TO DRAWING 5013881-CA-0001 FOR GENERAL NOTES.
2. REFER TO BUILDING SERVICES DRAWINGS FOR INTERNAL BUILDING PIPEWORK.
3. REFER TO TOPOGRAPHICAL SURVEY 7119-600-01, REVISION 1 FROM B. N. WALKER SURVEYING 2016 LTD FOR EXISTING SERVICES INFORMATION.

ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT
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No.	Revision	By	Chk	Appd	Date
C	FOR FTAA SUBSTANTIVE CONSENT APPLICATION	SZ	RR	CJB	30.10.26
B	REVISED CONCEPT DESIGN	SZ	RR	CJB	28.09.26
A	CONCEPT DESIGN	SZ	RR	CJB	24.07.26

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design	S.ZHU	21.08.26	Approved For Construction*
Drawn	A.FRANCOMBE	21.08.26	
Dsg Verifier	C.BREYTENBACH	30.10.26	
Drg Check	R.GARCIA	28.10.26	Date

* Refer to Revision 1 for Original Signature

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Client: Waipapa Taumata Rau University of Auckland

Project: UNIVERSITY OF AUCKLAND STUDENT CENTRE AND LIBRARY

Title: WATER LAYOUT

Discipline: CIVIL ENGINEERING

Drawing No.: 5013381-CA-6000

Rev.: C

Document No.: 5013381-CA-6000.DWG

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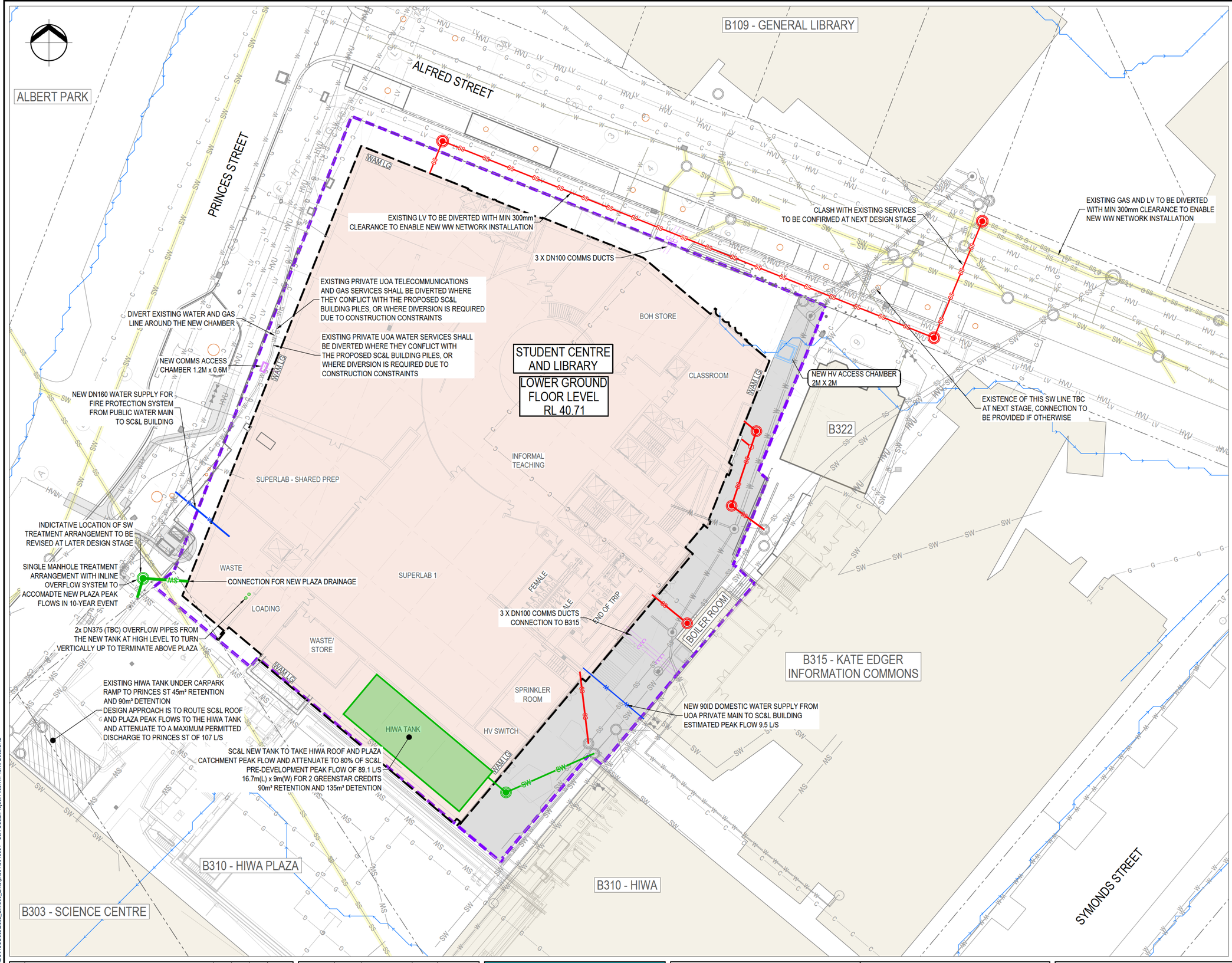

LEGEND:

- EXTENT OF WORKS
- CADASTRAL BOUNDARY
- NEW BUILDING OUTLINE
- NEW BUILDING
- EXISTING BUILDINGS
- EXISTING STORMWATER
- EXISTING STORMWATER CHANNEL
- NEW STORMWATER
- EXISTING WASTEWATER
- NEW WASTEWATER
- PUBLIC SERVICE
- EXISTING COMMS
- NEW COMMS
- EXISTING LOW VOLTAGE
- EXISTING HIGH VOLTAGE
- NEW HIGH VOLTAGE ACCESS CHAMBER
- EXISTING GAS MAIN
- EXISTING WATER MAIN
- NEW WATER MAIN
- EXISTING FIRE WATER
- NEW FIRE WATER
- EXISTING COMBINED STORMWATER/WASTEWATER
- EXISTING VECTOR EASEMENT
- NEW PAVED AREA
- EXISTING TREE TRUNK & DRIPLINE
- EXISTING OVERLAND FLOW PATH (FROM AC GIS)

NOTES:

1. REFER TO DRAWING 5013881-CA-0001 FOR GENERAL NOTES.
2. REFER TO BUILDING SERVICES DRAWINGS FOR INTERNAL BUILDING PIPEWORK.
3. REFER TO TOPOGRAPHICAL SURVEY 7119-600-01, REVISION 1 FROM B. N. WALKER SURVEYING 2016 LTD FOR EXISTING SERVICES INFORMATION.
4. EXISTING SERVICES TO BE ABANDONED ARE NOT SHOWN ON THIS LAYOUT FOR CLEANLINESS OF DRAWING PRESENTATION.
5. REFER TO DRAWING 5013881-CA-1110 FOR DEMOLITION PLAN.

ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT
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No.	Revision	By	Chk	Appd	Date
C	FOR FTAA SUBSTANTIVE CONSENT APPLICATION	SZ	RR	CJB	30.10.26
B	REVISED CONCEPT DESIGN	SZ	RR	CJB	28.09.26
A	CONCEPT DESIGN	SZ	RR	CJB	24.07.26

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design	S.ZHU	21.08.26	Approved For Construction*
Drawn	A.FRANCOMBE	21.08.26	
Dsg Verifier	C.BREYTENBACH	30.10.26	
Drg Check	R.GARCIA	28.10.26	Date

* Refer to Revision 1 for Original Signature

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Client: Waipapa Taumata Rau University of Auckland

Project: UNIVERSITY OF AUCKLAND STUDENT CENTRE AND LIBRARY

Title: COMBINED SERVICES LAYOUT

Discipline: CIVIL ENGINEERING

Drawing No.: 5013381-CA-9000

Rev.: C

Document No.: 5013381-CA-9000.DWG

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