



DRAWING LIST

DRAWING NO.	REV	DRAWING TITLE
3384543-AL-070	A	COVER SHEET
3384543-AL-071	A	OPTION A - SHEET 1
3384543-AL-072	A	OPTION A - SHEET 2
3384543-AL-073	A	OPTION A - SHEET 3
3384543-AL-074	A	OPTION A - SHEET 4
3384543-AL-075	A	OPTION A - SHEET 5
3384543-AL-081	A	OPTION C - SHEET 1
3384543-AL-082	A	OPTION C - SHEET 2
3384543-AL-083	A	OPTION C - SHEET 3

NOTES

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■ LANDSCAPE

BECA REF: 3384543

OPUS REF: 3C1262.00

DUDLEY CREEK FLOOD REMEDIATION

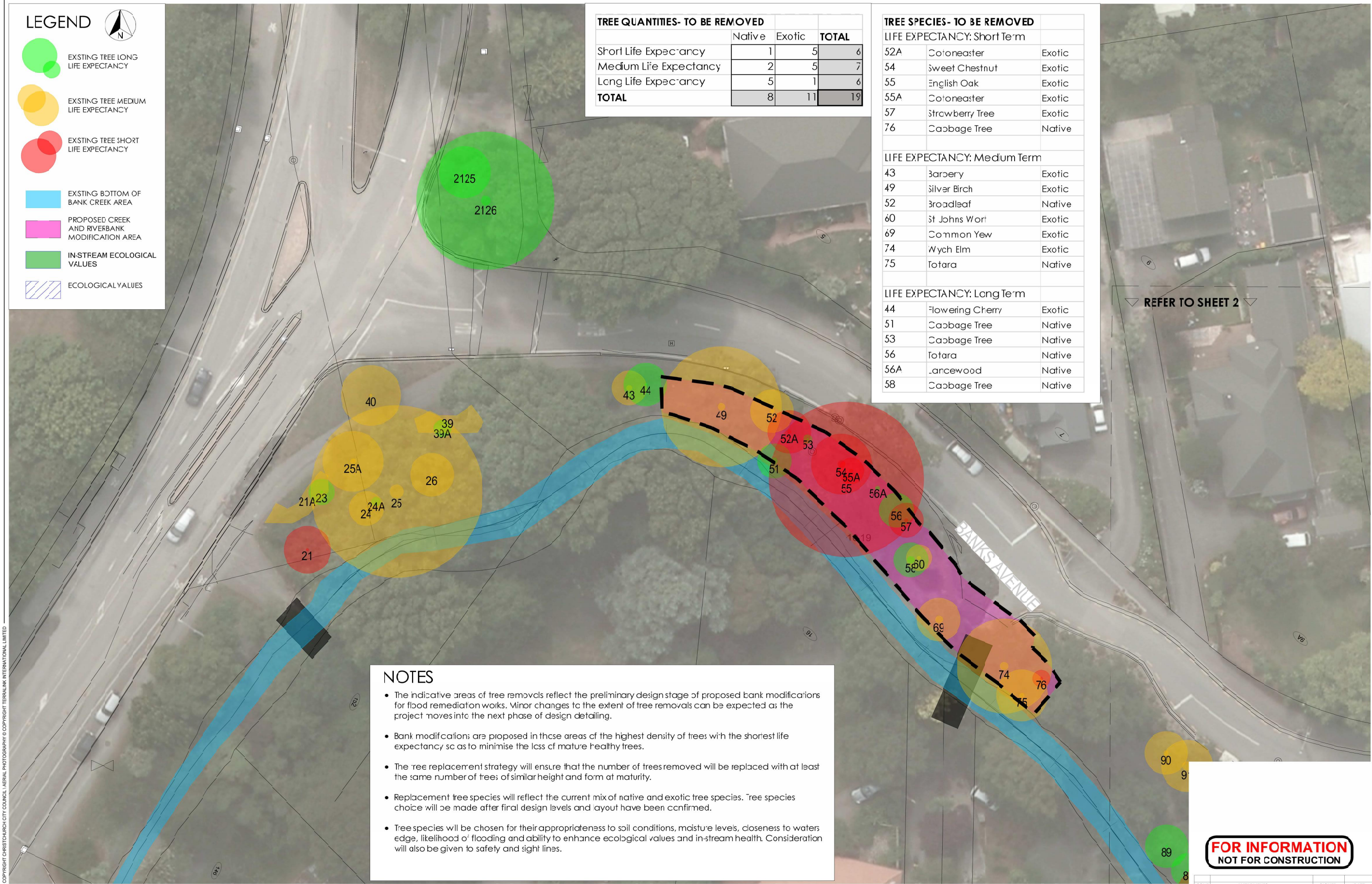
EXISTING TREE AND ECOLOGY PLAN APPENDIX F

Prepared for



CAPITAL PROGRAMME GROUP

By
Beca and Opus



LEGEND



EXISTING TREE LONG LIFE EXPECTANCY

EXISTING TREE MEDIUM LIFE EXPECTANCY

EXISTING TREE SHORT LIFE EXPECTANCY

EXISTING BOTTOM OF BANK CREEK AREA

PROPOSED CREEK AND RIVERBANK MODIFICATION AREA

IN-STREAM ECOLOGICAL VALUES

ECOLOGICAL VALUES

TREE QUANTITIES- TO BE REMOVED

	Native	Exotic	TOTAL
Short Life Expectancy	1	5	6
Medium Life Expectancy	2	5	7
Long Life Expectancy	5	1	6
TOTAL	8	11	19

TREE SPECIES- TO BE REMOVED

LIFE EXPECTANCY: Short Term		
52A	Cotoneaster	Exotic
54	Sweet Chestnut	Exotic
55	English Oak	Exotic
55A	Cotoneaster	Exotic
57	Strawberry Tree	Exotic
76	Cabbage Tree	Native
LIFE EXPECTANCY: Medium Term		
43	Barberry	Exotic
49	Silver Birch	Exotic
52	Broadleaf	Native
60	St Johns Wort	Exotic
69	Common Yew	Exotic
74	Wych Elm	Exotic
75	Totara	Native
LIFE EXPECTANCY: Long Term		
44	Flowering Cherry	Exotic
51	Cabbage Tree	Native
53	Cabbage Tree	Native
56	Totara	Native
56A	Lancewood	Native
58	Cabbage Tree	Native

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FOR INFORMATION
NOT FOR CONSTRUCTION

LEGEND



EXISTING TREE LONG LIFE EXPECTANCY

EXISTING TREE MEDIUM LIFE EXPECTANCY

EXISTING TREE SHORT LIFE EXPECTANCY

EXISTING BOTTOM OF BANK CREEK AREA

PROPOSED CREEK AND RIVERBANK MODIFICATION AREA

IN-STREAM ECOLOGICAL VALUES

ECOLOGICAL VALUES

- Best value instream habitat.
- Fast flow gravel, cobble substrate, narrow channel (in middle part anyway).
- Only place where Bluegill bullies found.
- Needs protecting and if possible enhancing.
- Freshwater mussel shells found here (and downstream)
- Fantails observed

TREE QUANTITIES- TO BE REMOVED

	Native	Exotic	TOTAL
Short Life Expectancy	9	7	16
Medium Life Expectancy	10	4	14
Long Life Expectancy	11	10	21
TOTAL	30	21	51

TREE SPECIES- TO BE REMOVED

LIFE EXPECTANCY: Short Term		
95	Broadleaf	Native
97	Broadleaf	Native
98	Wych Elm	Exotic
99	Broadleaf	Native
107	Wych Elm	Exotic
108	Japanese Cedar	Exotic
112A	Purple Akeake	Native
114	Golden Akeake	Native
115	Cabbage Tree	Native
115A	Wild Cherry	Exotic
129	Broadleaf	Native
134	Sycamore	Exotic
136	Cabbage Tree	Native
137	Common Holly	Exotic
143	Ribbonwood (dead)	Native
157	Wild Cherry	Exotic

LIFE EXPECTANCY: Medium Term

92	Cabbage Tree	Native
94	Narrow-leaved Lacebark	Native
95A	Narrow-leaved Lacebark	Native
99A	Lemonwood	Native
110	Lancewood	Native
112	Broadleaf	Native
113A	Elm	Exotic
113B	Five Finger	Native
133	Wych Elm	Exotic
135	Cabbage Tree	Native
138	Cabbage Tree	Native
141A	Large-leaved Kowhai	Native
144	Japanese Maple	Exotic
157A	St Johns Wort	Exotic

LIFE EXPECTANCY: Long Term

88	Sweet Gum	Exotic
89	Lancewood	Native
93	Wych Elm	Exotic
93A	Japanese Maple	Exotic
96	Wych Elm	Exotic
96A	Red Beech	Native
97A	Ribbonwood	Native
108A	Southern Magnolia	Exotic
109	Lancewood	Native
111	Cabbage Tree	Native
113	Common Lime	Exotic
113A	Elm	Exotic
114A	Japanese Maple	Exotic
138A	Sycamore	Exotic
140	Cabbage Tree	Native
141	Coprosma	Native
142	Cabbage Tree	Native
145	Cabbage Tree	Native
145A	Lemonwood (group)	Native
146	Totara	Native
158	Common Lime	Exotic

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REFER TO SHEET 3

**FOR INFORMATION
NOT FOR CONSTRUCTION**

**Christchurch
City Council**



CAPITAL PROGRAMME GROUP

STATUS	DESIGNED	NAME	SIGNED	DATE	APPROVED
3/20/2019	3/20/2019	3/20/2019	3/20/2019	3/20/2019	FOR TENDER
3/20/2019	3/20/2019	3/20/2019	3/20/2019	3/20/2019	DATE SIGNED
3/20/2019	3/20/2019	3/20/2019	3/20/2019	3/20/2019	FOR CONSTRUCTION
3/20/2019	3/20/2019	3/20/2019	3/20/2019	3/20/2019	DATE SIGNED

CONSULTANT	PROJECT REF.	CONSULTANT FILE REF.
Beca	3384543 / 3C1262.00	S:\300 Drawings\CAD
OPUS		

DUDLEY CREEK FLOOD REMEDIATION

**EXISTING TREE AND ECOLOGY PLAN
OPTION A: BANKS AVENUE**

CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALE
1415-192	A1	1:250 @ A1 / 1:500 @ A3
CAD DRAWING FILE REF. 3384543-AL-072		
CPG PROJECT FILE NUMBER	SHEET	
CP502630	2 OF 5	

EXISTING TREE LONG LIFE EXPECTANCY

EXISTING TREE MEDIUM
LIFE EXPECTANCY

EXISTING TREE SHORT LIFE EXPECTANCY

EXISTING BOTTOM OF
BANK CREEK AREA

 PROPOSED CREEK AND RIVERBANK MODIFICATION AREA

IN-STREAM ECOLOGICAL VALUES

 ECOLOGICAL VALUES

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▽ REFER TO SHEET 4 ▽

TREE QUANTITIES- TO BE REMOVED

	Native	Exotic	TOTAL
Short Life Expectancy	2	8	10
Medium Life Expectancy	2	6	8
Long Life Expectancy	0	1	1
TOTAL	4	15	19

TREE SPECIES- TO BE REMOVED

LIFE EXPECTANCY: Short Term

234	Sycamore	Exotic
262	Sweet Bay	Exotic
264	Kohuhu	Native
265	Purple-leaf Cherry Plum	Exotic
268	Sycamore	Exotic
269	Sycamore	Exotic
269A	Rhododendron	Exotic
270	Ribbonwood	Native
271	Sycamore	Exotic
274A	Hydrangea	Exotic

LIFE EXPECTANCY: Medium Term

263	Sycamore	Exotic
268A	Wineberry	Exotic
270A	Kohuhu	Native
271A	Sycamore	Exotic
272	Sycamore	Exotic
272A	Kohuhu	Native
273	Sycamore	Exotic
274	Chusan Palm	Exotic

LIFE EXPECTANCY: Long Term

234A	Ginkgo	Exotic
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FOR INFORMATION
NOT FOR CONSTRUCTION

ISSUE	AMENDMENT'S	SIGNED	DATE
CONTRACT NUMBER 14'15-192	ORIGINAL SHEET SIZE A1	S:ALES 1:250 @ A1 / 1:500 @ A3	
CAD DRAWING FILE REF. 338:543-LAL-073			
CPG PROJECT FILE NUMBER CP502630		S:HEET 3 OF 5	

DATE	NAME	SIGNED	DATE
DESIGNED			
DES. REVIEW			
DRAWN			
DRW. CHECK			
FILE LOCATION	S:\30 Drawings\CAD\		
304543-AL-07-338453-AL-483.dwg			
PRINTED ON 12 Jun 95 BY DLM			

APPROVED	
FOR FENDER	
DATE	SIGNED
FCR CONSTRUCTION	
DATE	SIGNED

CONSULTANT



PROJECT TITLE

DUDLEY CREEK FLOOD REMEDIATION

	DRAWING TITLE
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EXISTING TREE AND ECOLOGY PLAN

OPTION A: BANKS AVENUE

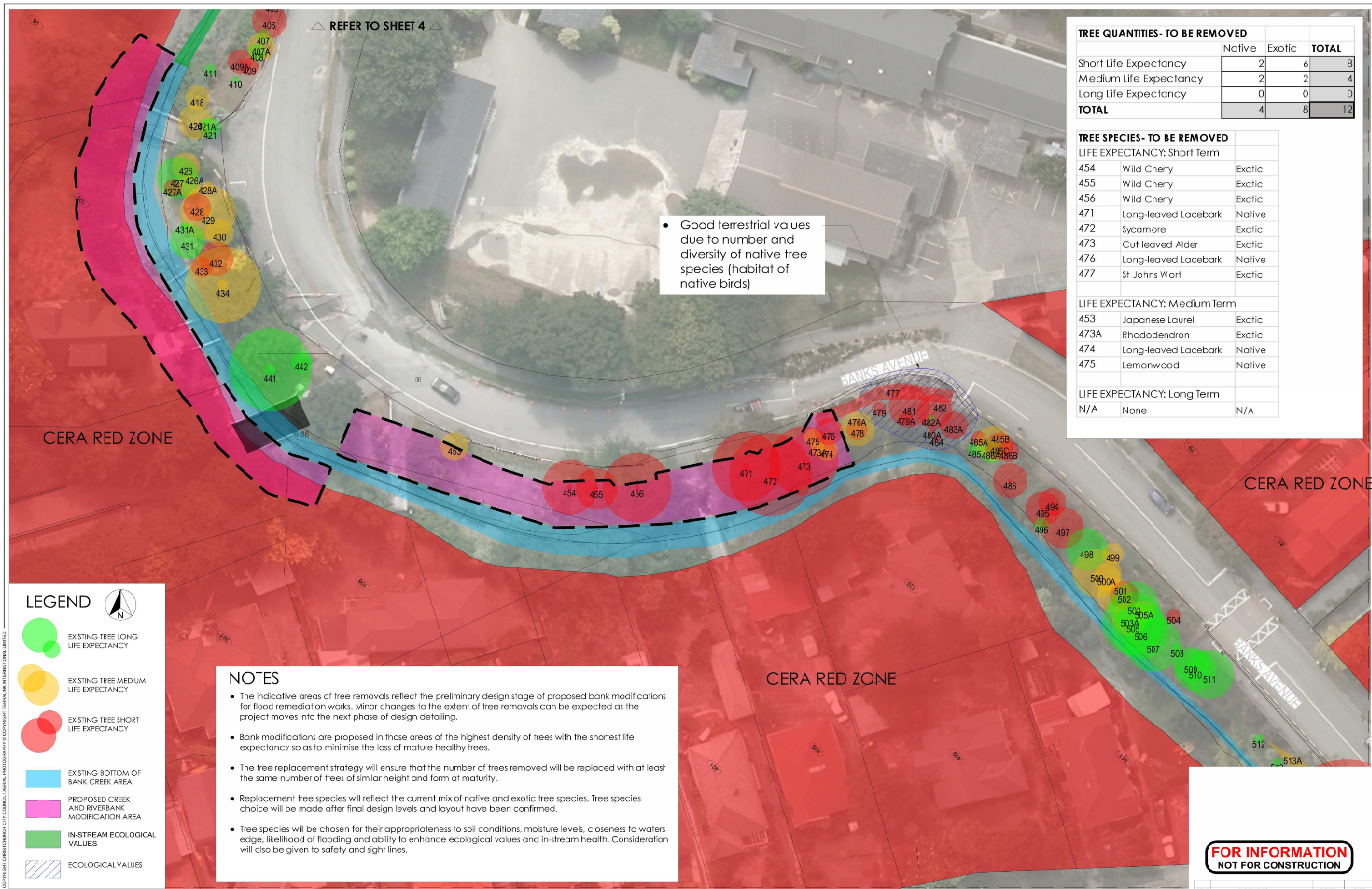
CONTRACT NUMBER	14/15-192
CAD DRAWING FILE REF.	3384543-AL-073
CPG PROJECT FILE NUMBER	CP50263

SALES

250 @ A1 / 1:50 @ A3

HEET

3 OF 5



TREE QUANTITIES- TO BE REMOVED			
	Native	Exotic	TOTAL
Short Life Expectancy	2	6	3
Medium Life Expectancy	2	2	4
Long Life Expectancy	0	0	0
TOTAL	4	8	12

TREE SPECIES- TO BE REMOVED		
LIFE EXPECTANCY: Short Term		
454	Wild Cherry	Exctic
455	Wild Cherry	Exctic
456	Wild Cherry	Exctic
471	Long-leaved Lacebark	Native
472	Sycamore	Exctic
473	Cut leaved Alder	Exctic
476	Long-leaved Lacebark	Native
477	St Johns Worl	Exctic
LIFE EXPECTANCY: Medium Term		
453	Japanese Laurel	Exctic
473A	Rhododendron	Exctic
474	Long-leaved Lacebark	Native
475	Lemonwood	Native
LIFE EXPECTANCY: Long Term		
N/A	None	N/A

LEGEND

EXISTING TREE LONG LIFE EXPECTANCY

EXISTING TREE MEDIUM LIFE EXPECTANCY

EXISTING TREE SHORT LIFE EXPECTANCY

EXISTING BOTTOM OF BANK CREEK AREA

PROPOSED CREEK AND RIVERBANK MODIFICATION AREA

IN-STREAM ECOLOGICAL VALUES

ECOLOGICAL VALUES

NOTES

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LEGEND



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- EXISTING BOTTOM OF BANK CREEK AREA
- PROPOSED CREEK AND RIVERBANK MODIFICATION AREA
- IN-STREAM ECOLOGICAL VALUES
- ECOLOGICAL VALUES

TREE QUANTITIES- TO BE REMOVED			
	Native	Exotic	TOTAL
Short Life Expectancy	4	7	11
Medium Life Expectancy	6	0	7
Long Life Expectancy	0	2	2
TOTAL	6	9	19

TREE SPECIES- TO BE REMOVED		
LIFE EXPECTANCY: Short Term		
664	Lemonwood	Native
665	Cotoneaster	Exotic
668	Lemonwood	Native
672	Pissard's Plum	Exotic
674	Pissard's Plum	Exotic
675	Western Red Cedar	Exotic
676	Pissard's Plum	Exotic
677	Swamp Cypress	Exotic
678	Lemonwood	Native
679	Pissard's Plum	Exotic
679A	Ribbonwood	Native
LIFE EXPECTANCY: Medium Term		
676A	Mixed native shrubs	Native
676B	Mixed native shrubs	Native
676C	Mixed native shrubs	Native
676D	Mixed native shrubs	Native
676E	Mixed native shrubs	Native
691	Mixed native shrubs/grasses	Native
LIFE EXPECTANCY: Long Term		
648A	Atlas Cedar	Exotic
673	Atlas Cedar	Exotic

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- Trees used by Monarch butterflies as winter roosting sites. Primarily Swamp Cypress species used.


REFER TO SHEET 2

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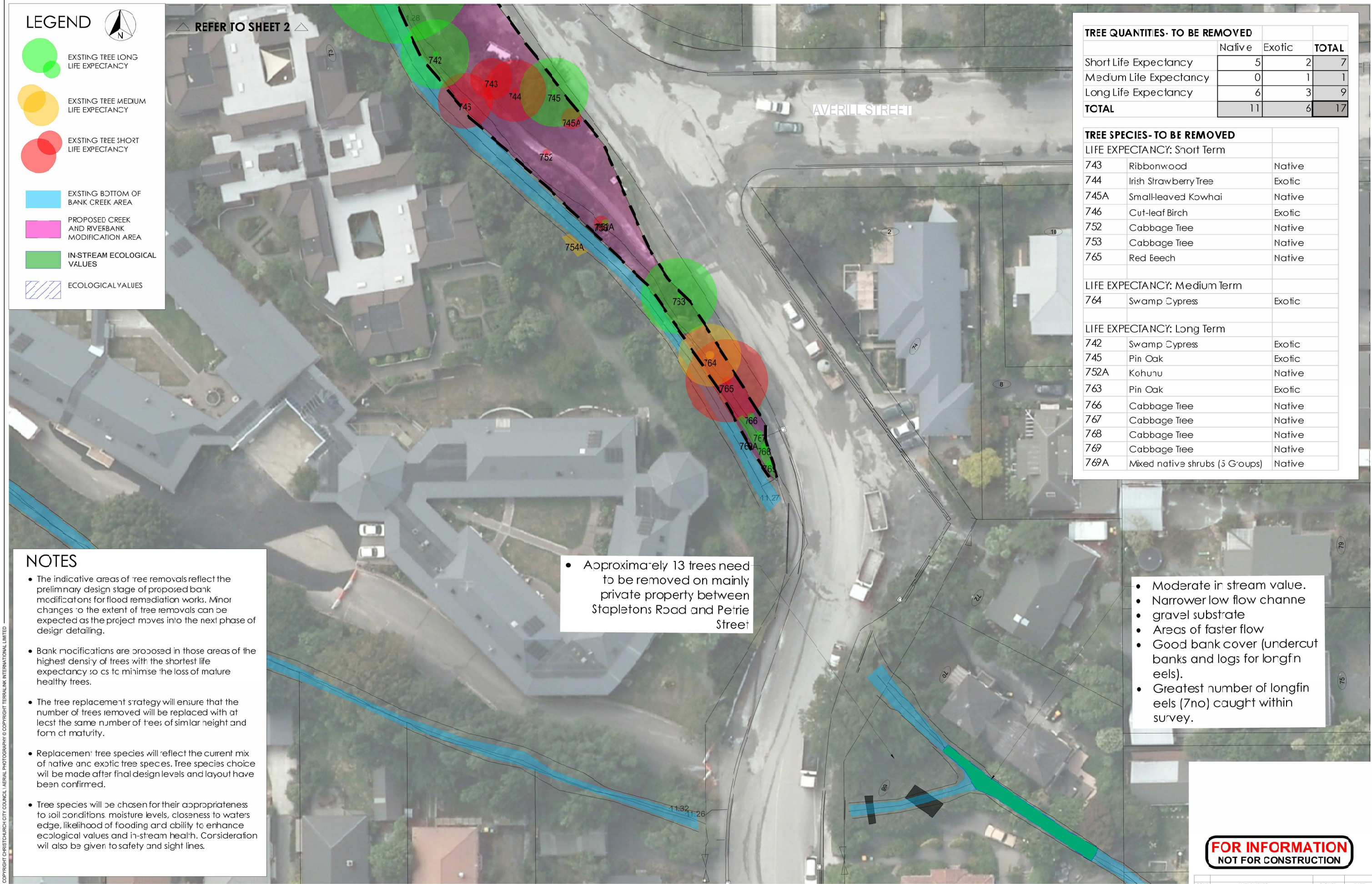
REFER TO SHEET 1

REFER TO SHEET 3 

VERILL STREET

	Native	Exotic	TOTAL
Short Life Expectancy	3	4	7
Medium Life Expectancy	2	4	6
Long Life Expectancy	0	1	1
TOTAL	5	9	14

LIFE EXPECTANCY: Short Term		
705	Red Beech	Native
714	Ribbonwood	Native
715	Ribbonwood	Native
721	Purple-leaf Cherry Plum	Exotic
727	Pissard's Plum	Exotic
728	Silver Birch	Exotic
735	Felc Maple	Exotic
LIFE EXPECTANCY: Medium Term		
715A	Fax	Native
719	Small-leaved Cowhai	Native
720	Purple-leaf Cherry Plum	Exotic
721A	Pissard's Plum	Exotic
726	Pissard's Plum	Exotic
731	Swamp Cypress	Exotic
LIFE EXPECTANCY: Long Term		
736	Pin Oak	Exotic



LEGEND



△ REFER TO SHEET 2 △

EXISTING TREE LONG LIFE EXPECTANCY

EXISTING TREE MEDIUM LIFE EXPECTANCY

EXISTING TREE SHORT LIFE EXPECTANCY

EXISTING BOTTOM OF BANK CREEK AREA

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- Approximately 13 trees need to be removed on mainly private property between Stapletons Road and Petrie Street

TREE QUANTITIES - TO BE REMOVED

	Native	Exotic	TOTAL
Short Life Expectancy	5	2	7
Medium Life Expectancy	0	1	1
Long Life Expectancy	6	3	9
TOTAL	11	6	17

TREE SPECIES - TO BE REMOVED

LIFE EXPECTANCY: Short Term

743	Ribbonwood	Native
744	Irish Strawberry Tree	Exotic
745A	Small-leaved Kowhai	Native
746	Cut-leaf Birch	Exotic
752	Cabbage Tree	Native
753	Cabbage Tree	Native
765	Red Beech	Native

LIFE EXPECTANCY: Medium Term

764	Swamp Cypress	Exotic
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LIFE EXPECTANCY: Long Term

742	Swamp Cypress	Exotic
745	Pin Oak	Exotic
752A	Kohuhu	Native
763	Pin Oak	Exotic
766	Cabbage Tree	Native
767	Cabbage Tree	Native
768	Cabbage Tree	Native
769	Cabbage Tree	Native
769A	Mixed native shrubs (5 Groups)	Native

- Moderate in stream value.
- Narrower low flow channel
- gravel substrate
- Areas of faster flow
- Good bank cover (undercut banks and logs for longfin eels).
- Greatest number of longfin eels (7no) caught within survey.

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