



JORDAN SPRINGS EAST TO WEST OPEN CHANNEL



DRAWING INDEX

DRAWING No	DRAWING TITLE
EN02754-C-601	COVER SHEET AND DRAWING INDEX
EN02754-C-610	OPEN CHANNEL LAYOUT PLAN - SHEET 1 OF 4
EN02754-C-611	OPEN CHANNEL LAYOUT PLAN - SHEET 2 OF 4
EN02754-C-612	OPEN CHANNEL LAYOUT PLAN - SHEET 3 OF 4
EN02754-C-613	OPEN CHANNEL LAYOUT PLAN - SHEET 4 OF 4
EN02754-C-631	LONGITUDINAL SECTIONS MC01 - SHEET 1 OF 3
EN02754-C-632	LONGITUDINAL SECTIONS MC01 - SHEET 2 OF 3
EN02754-C-633	LONGITUDINAL SECTIONS MC01 - SHEET 3 OF 3
EN02754-C-634	LONGITUDINAL SECTIONS MC02 - SHEET 1 OF 1
EN02754-C-651	CROSS SECTIONS MC01 - SHEET 1 OF 8
EN02754-C-652	CROSS SECTIONS MC01 - SHEET 2 OF 8
EN02754-C-653	CROSS SECTIONS MC01 - SHEET 3 OF 8
EN02754-C-654	CROSS SECTIONS MC01 - SHEET 4 OF 8
EN02754-C-655	CROSS SECTIONS MC01 - SHEET 5 OF 8
EN02754-C-656	CROSS SECTIONS MC01 - SHEET 6 OF 8
EN02754-C-657	CROSS SECTIONS MC01 - SHEET 7 OF 8
EN02754-C-658	CROSS SECTIONS MC01 - SHEET 8 OF 8

SCALE 1:5000 (A1) 50 0 50 100 150 200 250
SCALE 1:10000 (A3)

NOT FOR CONSTRUCTION

3	05/12/12	LB	JH	JC	JW	DA ISSUE
2	27/11/12	SH	JH	JC		AMENDED BOX CULVERT LOCATIONS FOR DA ISSUE
1	18/09/12	CG	JH	JC		AMENDED BOX CULVERT LOCATIONS FOR DA ISSUE
0	08/06/12	IH	JH	JC		PRE-DA ISSUE TO LEND LEASE FOR COMMENTS
NO	DATE	DESIGNER	CHECKER	REVIEWER	APP'D	AMENDMENT

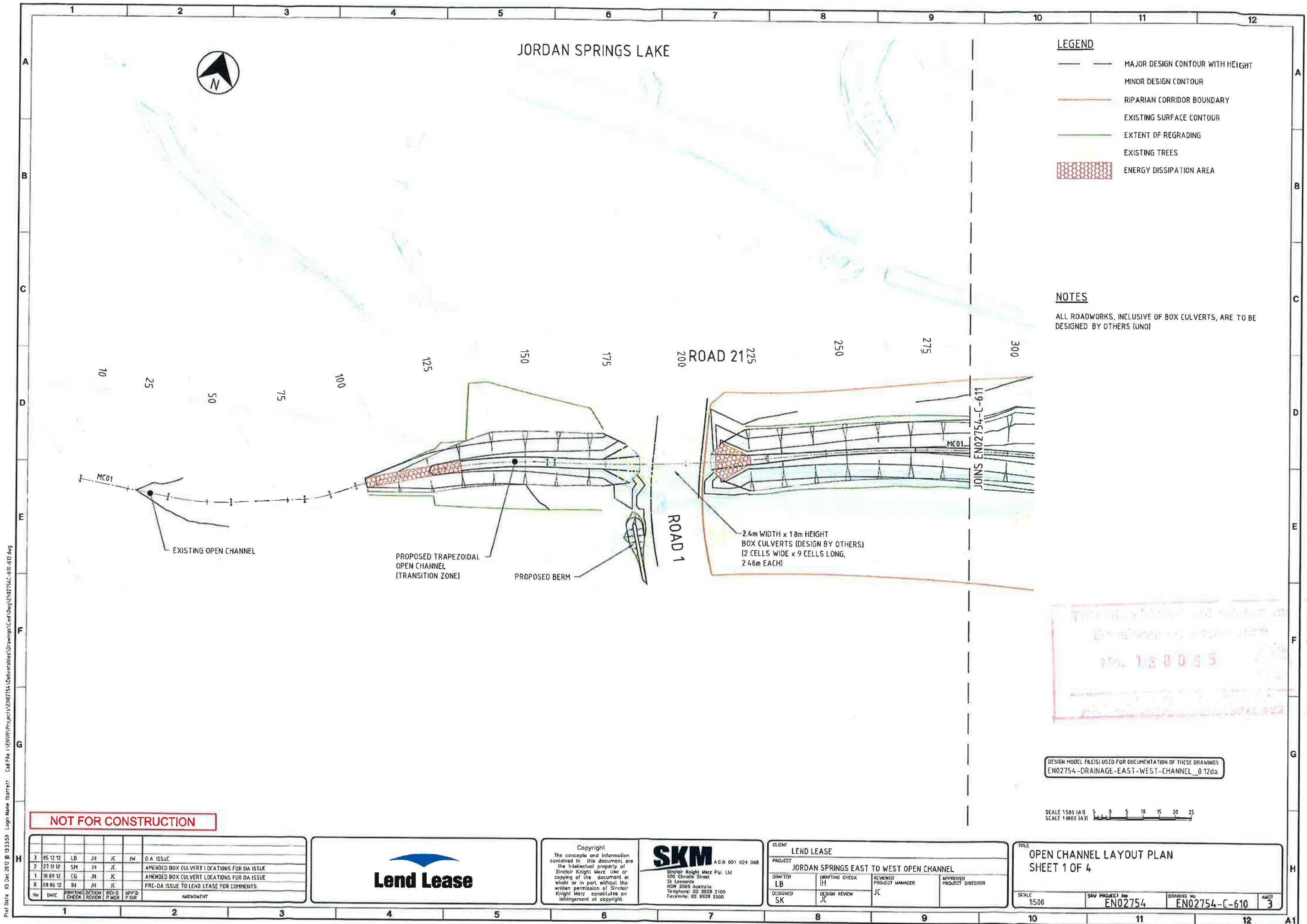


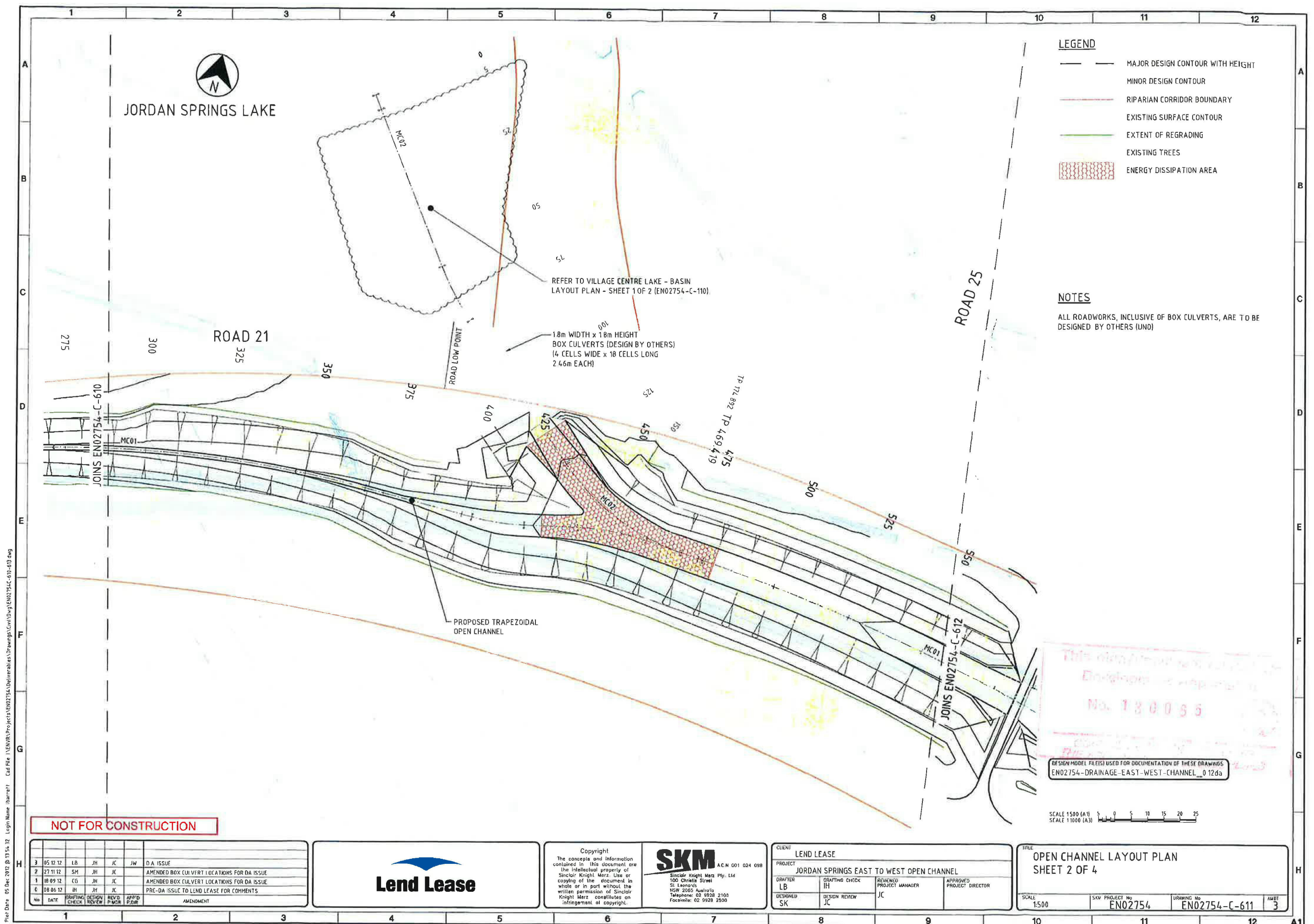
Copyright
The concepts and information contained in this document are the intellectual property of Sinclair Knight Merz. Use or copying of the document in whole or in part without the written permission of Sinclair Knight Merz constitutes an infringement of copyright.

SKM X.C.N 001 024 098
Sinclair Knight Merz Pty. Ltd.
100 Christie Street
St Leonards
NSW 2055 Australia
Telephone: 02 9928 2100
Facsimile: 02 9928 2500

CLIENT LEND LEASE			
PROJECT JORDAN SPRINGS EAST TO WEST OPEN CHANNEL			
DRAWN LB	DRAFTING CHECK IH	REVIEWED PROJECT MANAGER JC	APPROVED PROJECT DIRECTOR
DESIGNED	DESIGN REVIEW JC		

TITLE COVER SHEET AND DRAWING INDEX			
SCALE 1:5000	SKM PROJECT NO EN02754	DRAWING NO EN02754-C-601	AMOUNT 3





LEGEND

- MAJOR DESIGN CONTOUR WITH HEIGHT
- MINOR DESIGN CONTOUR
- RIPARIAN CORRIDOR BOUNDARY
- EXISTING SURFACE CONTOUR
- EXTENT OF REGRADING
- EXISTING TREES
- ENERGY DISSIPATION AREA

NOTES

ALL ROADWORKS, INCLUSIVE OF BOX CULVERTS, ARE TO BE DESIGNED BY OTHERS (UNO)

NOT FOR CONSTRUCTION

No	DATE	DRAWING CHECK	DESIGN REVIEW	REVISED BY	APPROVED BY	AMENDMENT
3	05 12 12	LB	JH	JC	JW	D.A. ISSUE
2	27 11 12	SM	JH	JC		AMENDED BOX CULVERT LOCATIONS FOR DA ISSUE
1	18 09 12	CG	JH	JC		AMENDED BOX CULVERT LOCATIONS FOR DA ISSUE
4	08 06 12	IH	JH	JC		PRE-DA ISSUE TO LEND LEASE FOR COMMENTS

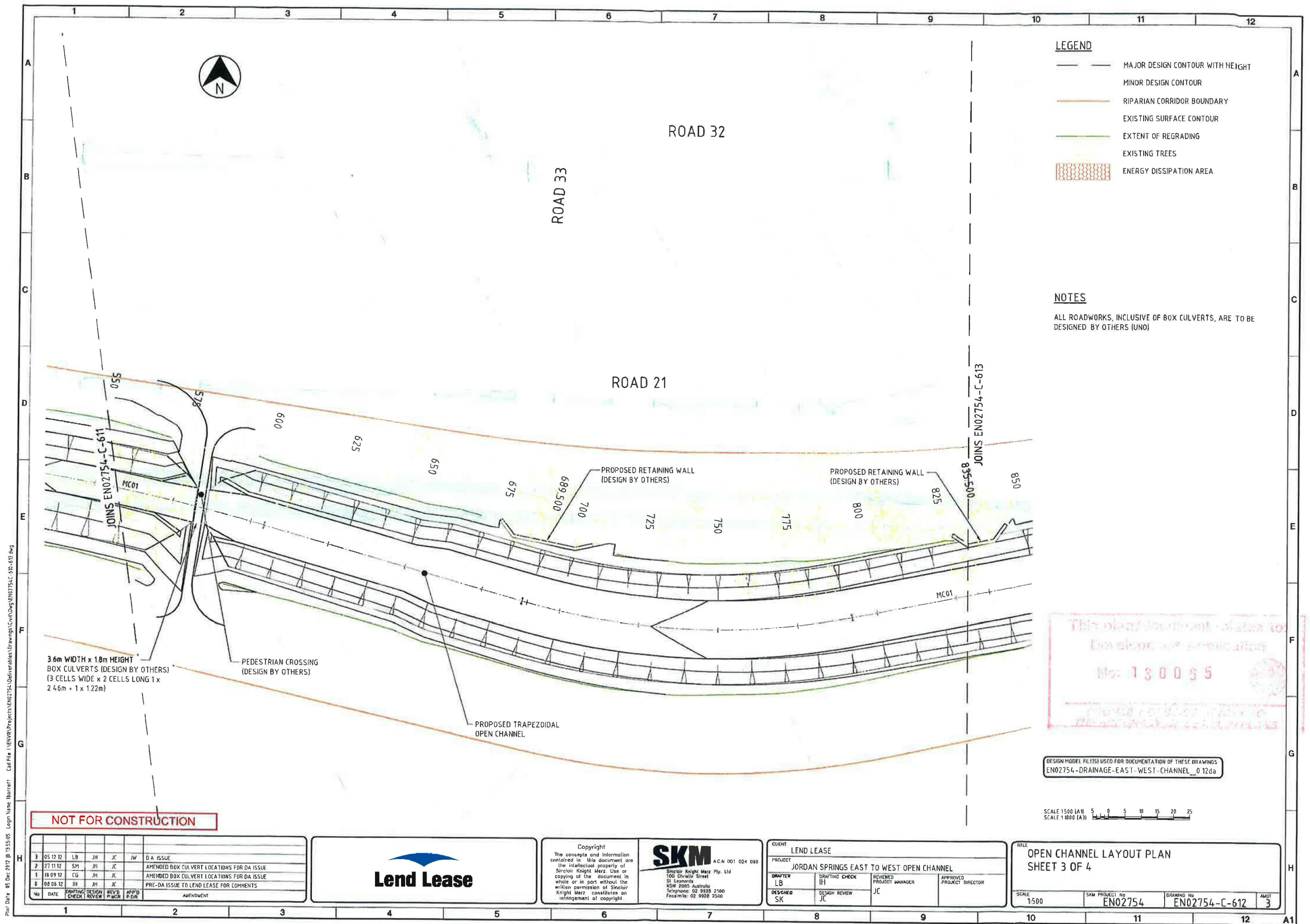
Lend Lease

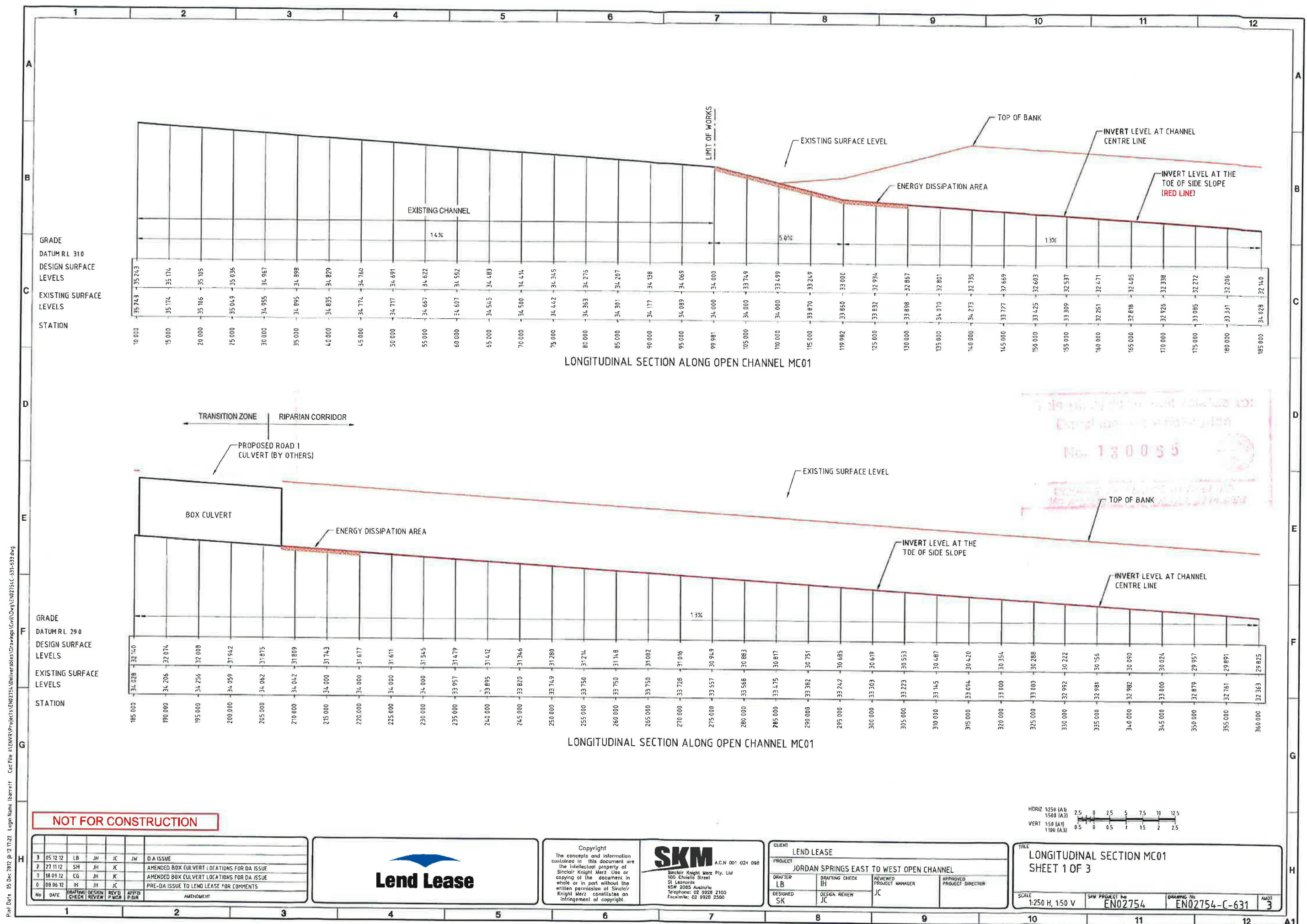
Copyright
The concepts and information contained in this document are the intellectual property of Sinclair Knight Merz. Use or copying of the document in whole or in part without the written permission of Sinclair Knight Merz constitutes an infringement of copyright.

SKM A.C.N. 001 024 098
Sinclair Knight Merz Pty. Ltd.
100 Christie Street
St Leonards
NSW 2055 Australia
Telephone: 02 9928 2100
Facsimile: 02 9928 2500

CLIENT LEND LEASE			
PROJECT JORDAN SPRINGS EAST TO WEST OPEN CHANNEL			
DRAFTER LB	DRAFTING CHECK IH	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
DRAWN BY SK	DESIGN REVIEW JC	JC	

TITLE OPEN CHANNEL LAYOUT PLAN SHEET 2 OF 4			
SCALE 1:500	SKM PROJECT No. EN02754	DRAWING No. EN02754-C-611	A4/3 3





130095

NOT FOR CONSTRUCTION

NO	DATE	DRAWING CHECK	DESIGN REVIEW	REV'D	APPROVED	AMENDMENT
1	05.12.12	LB	JH	JC	JW	DA ISSUE
2	21.11.12	SM	JH	JC		AMENDED BOX CULVERT LOCATIONS FOR DA ISSUE
3	18.09.12	CG	JH	JC		AMENDED BOX CULVERT LOCATIONS FOR DA ISSUE
4	08.06.12	IH	JH	JC		PRE-DA ISSUE TO LEND LEASE FOR COMMENTS

Lend Lease

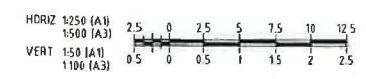
Copyright

The concepts and information contained in this document are the intellectual property of Sinclair Knight Merz. Use or copying of the document in whole or in part without the written permission of Sinclair Knight Merz constitutes an infringement of copyright.

SKM A.C.N. 001 024 098

Sinclair Knight Merz Pty. Ltd
100 Chifley Street
St Leonards
NSW 2055 Australia
Telephone: 02 9928 2100
Facsimile: 02 9928 2500

CLIENT: LEND LEASE			
PROJECT: JORDAN SPRINGS EAST TO WEST OPEN CHANNEL			
DRAWN: LB	CHECKED: IH	REVIEWED: JC	APPROVED: PROJECT DIRECTOR
DESIGNED: SK	DESIGN REVIEW: JC		



TITLE: LONGITUDINAL SECTION MC01

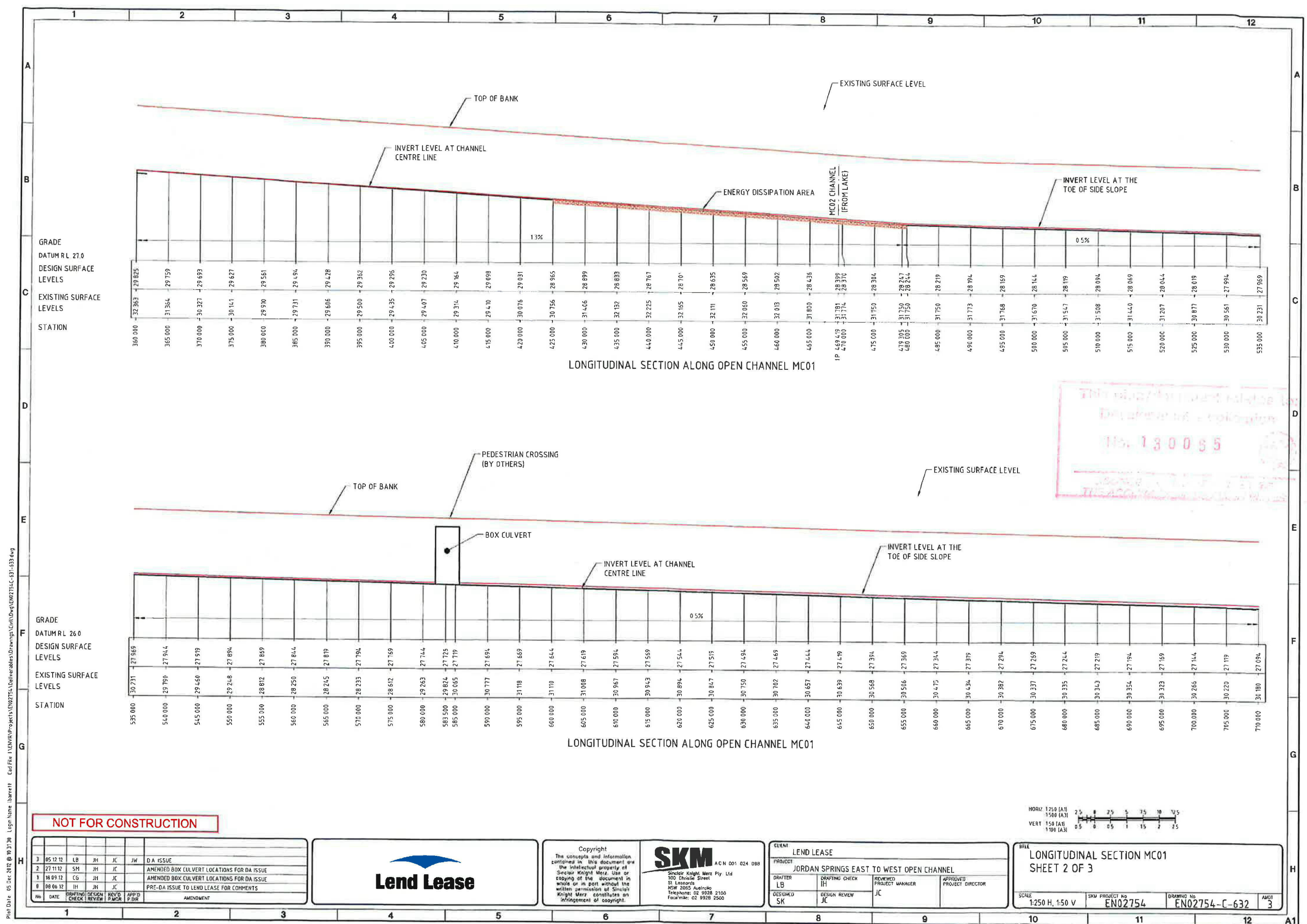
SHEET 1 OF 3

SCALE: 1:250 H, 1:50 V

SWP PROJECT NO: EN02754

DRAWING NO: EN02754-C-631

AUG 13



THIS DRAWING IS THE PROPERTY OF SKM
It is to be used for the project only
115.130065
115.130065

NOT FOR CONSTRUCTION

1	05/12/12	LB	JH	JC	JW	DA ISSUE
2	27/11/12	SM	JH	JC		AMENDED BOX CULVERT LOCATIONS FOR DA ISSUE
3	18/09/12	CG	JH	JC		AMENDED BOX CULVERT LOCATIONS FOR DA ISSUE
4	08/06/12	IH	JH	JC		PRE-DA ISSUE TO LEND LEASE FOR COMMENTS
5						
6						
7						
8						
9						
10						
11						
12						

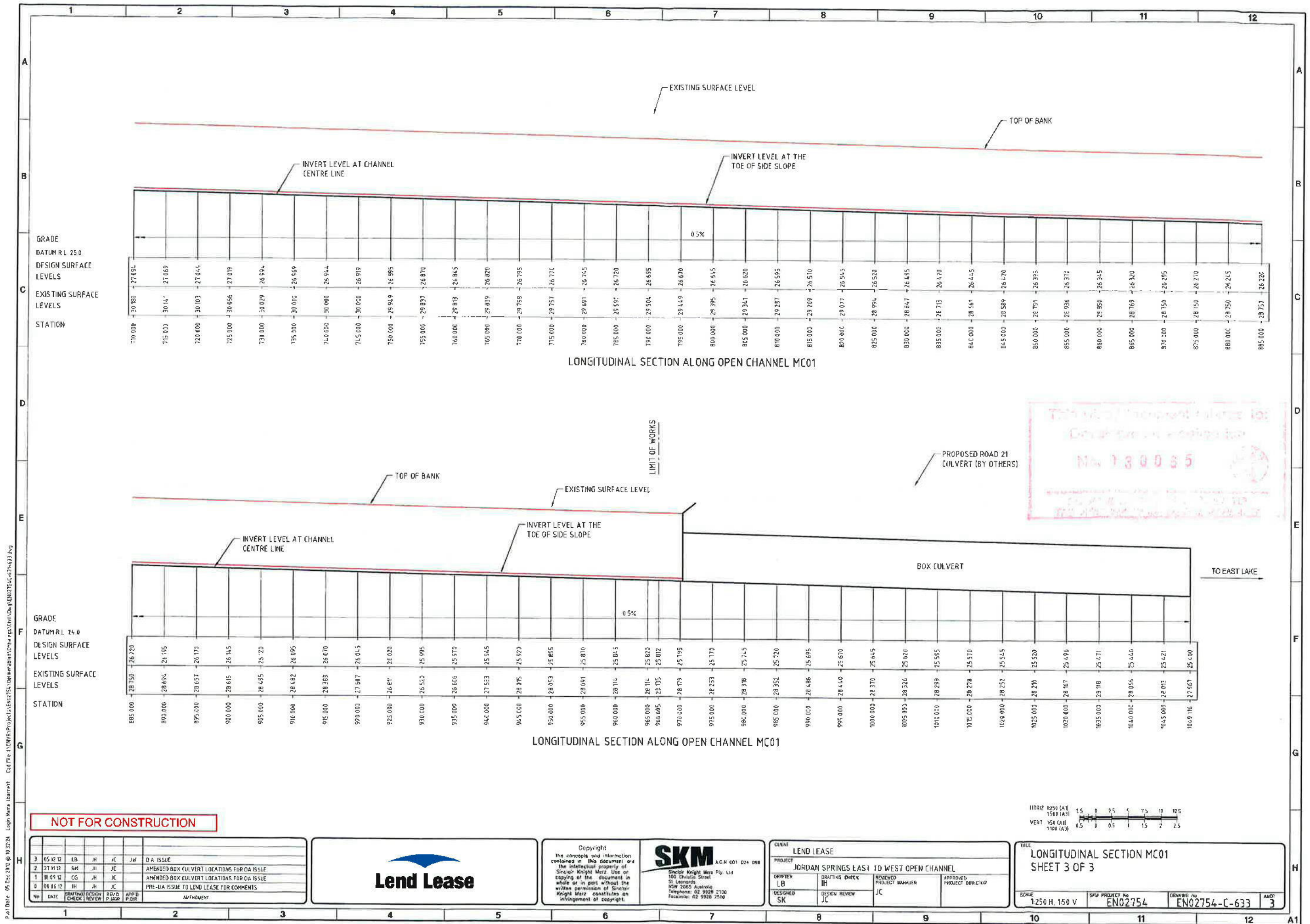


Copyright
The concept and information contained in this document are the intellectual property of Sinclair Knight Merz. Use or copying of the document in whole or in part without the written permission of Sinclair Knight Merz constitutes an infringement of copyright.

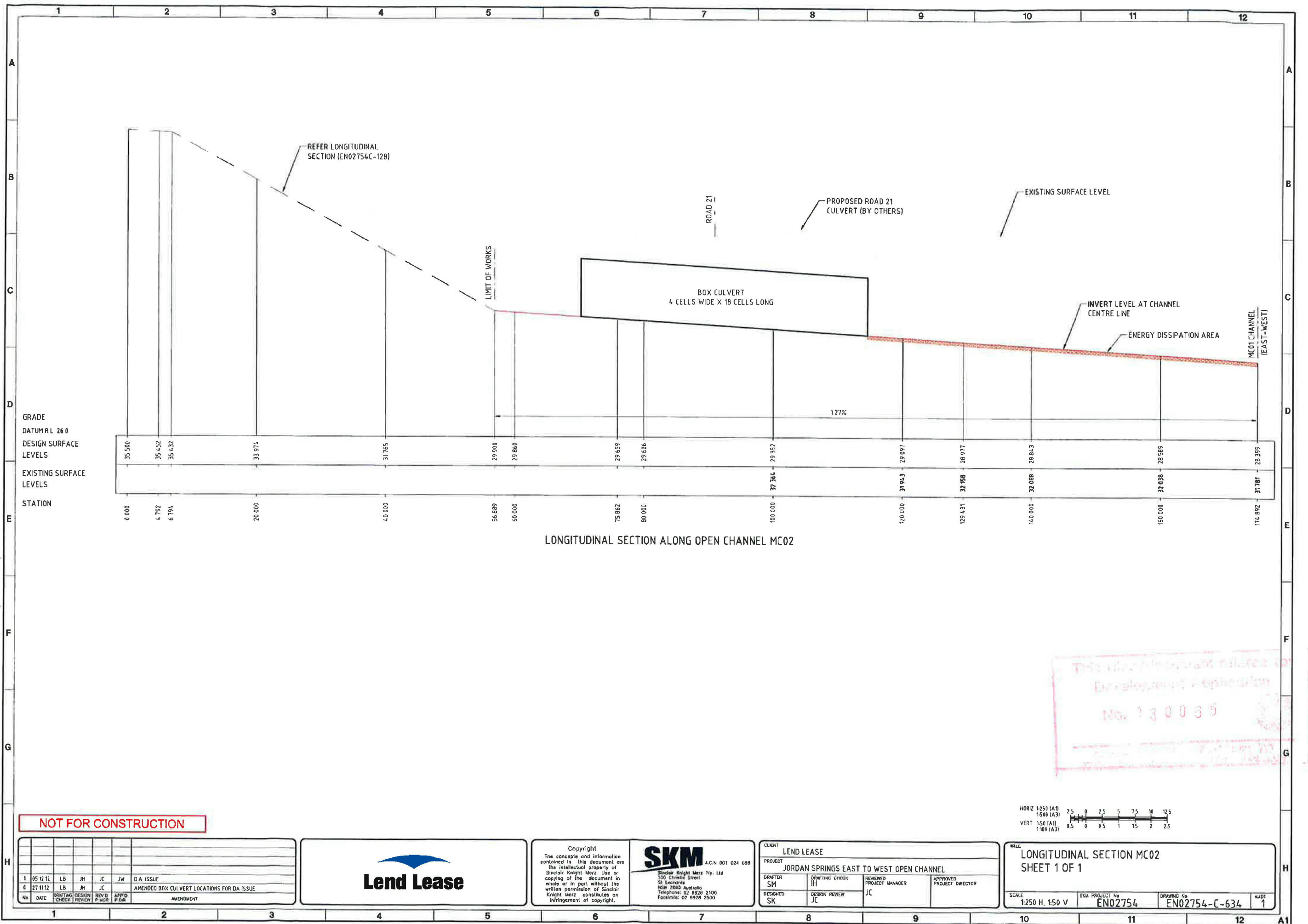
SKM ACN 001 024 088
Sinclair Knight Merz Pty Ltd
100 Drake Street
St Leonards
NSW 2055 Australia
Telephone: 02 9928 2100
Facsimile: 02 9928 2500

CLIENT	LEND LEASE
PROJECT	JORDAN SPRINGS EAST TO WEST OPEN CHANNEL
DRAFTER	LB
CHECKED	IH
DESIGNED	SK
REVIEWED	JC
PROJECT MANAGER	
APPROVED	
PROJECT DIRECTOR	

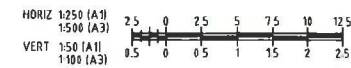
TITLE	LONGITUDINAL SECTION MC01
SHEET	2 OF 3
SCALE	1:250 H, 1:50 V
SKM PROJECT NO	EN02754
DRAWING NO	EN02754-C-632
AMDT	3



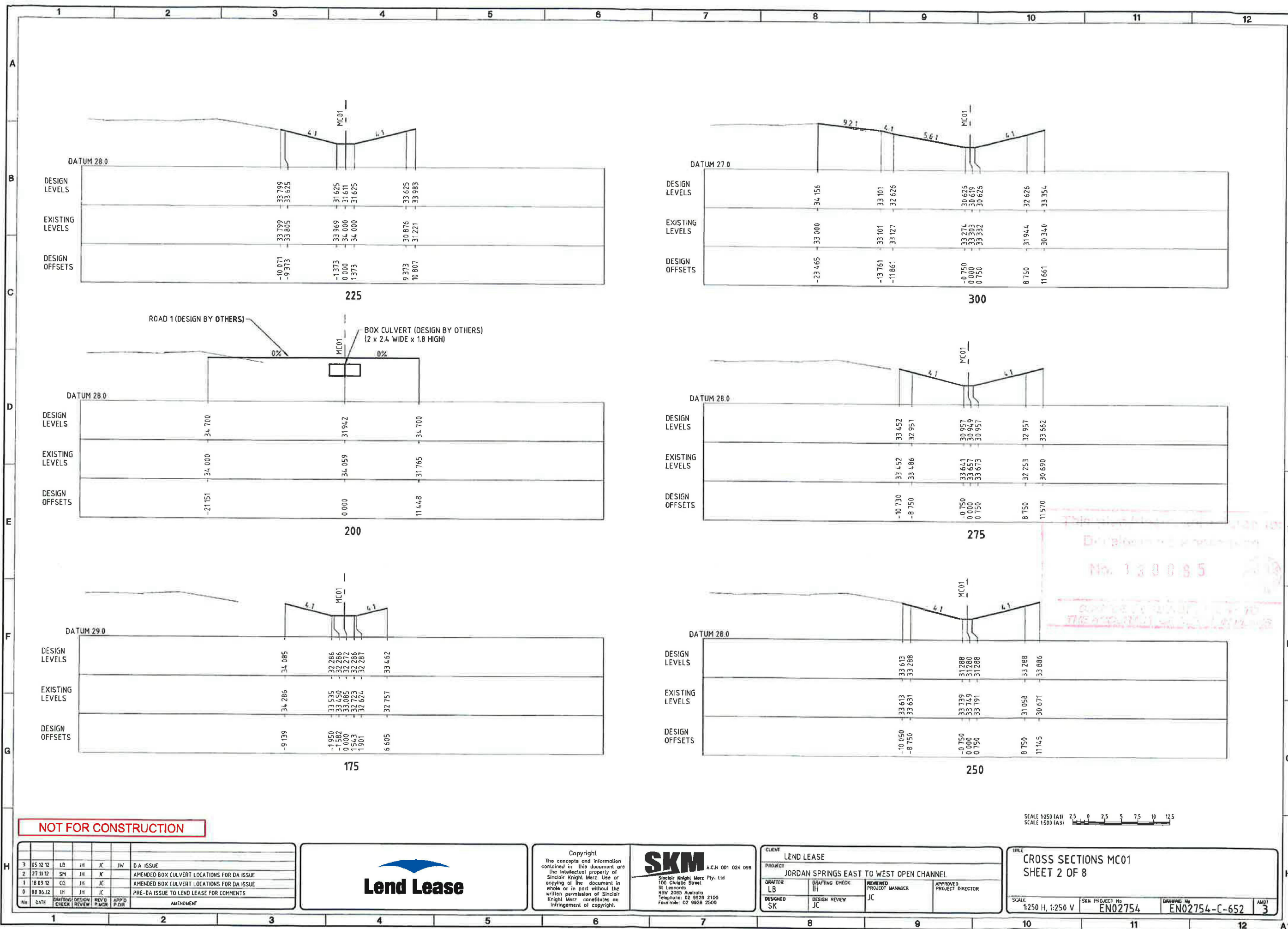
Plot Date: 05 Dec 2012 @ 12:08:24, Login Name: barrett, Cad File: \\ENVR\Projects\EN02754\Drawings\Grid\Doc\EN02754C-634.dwg

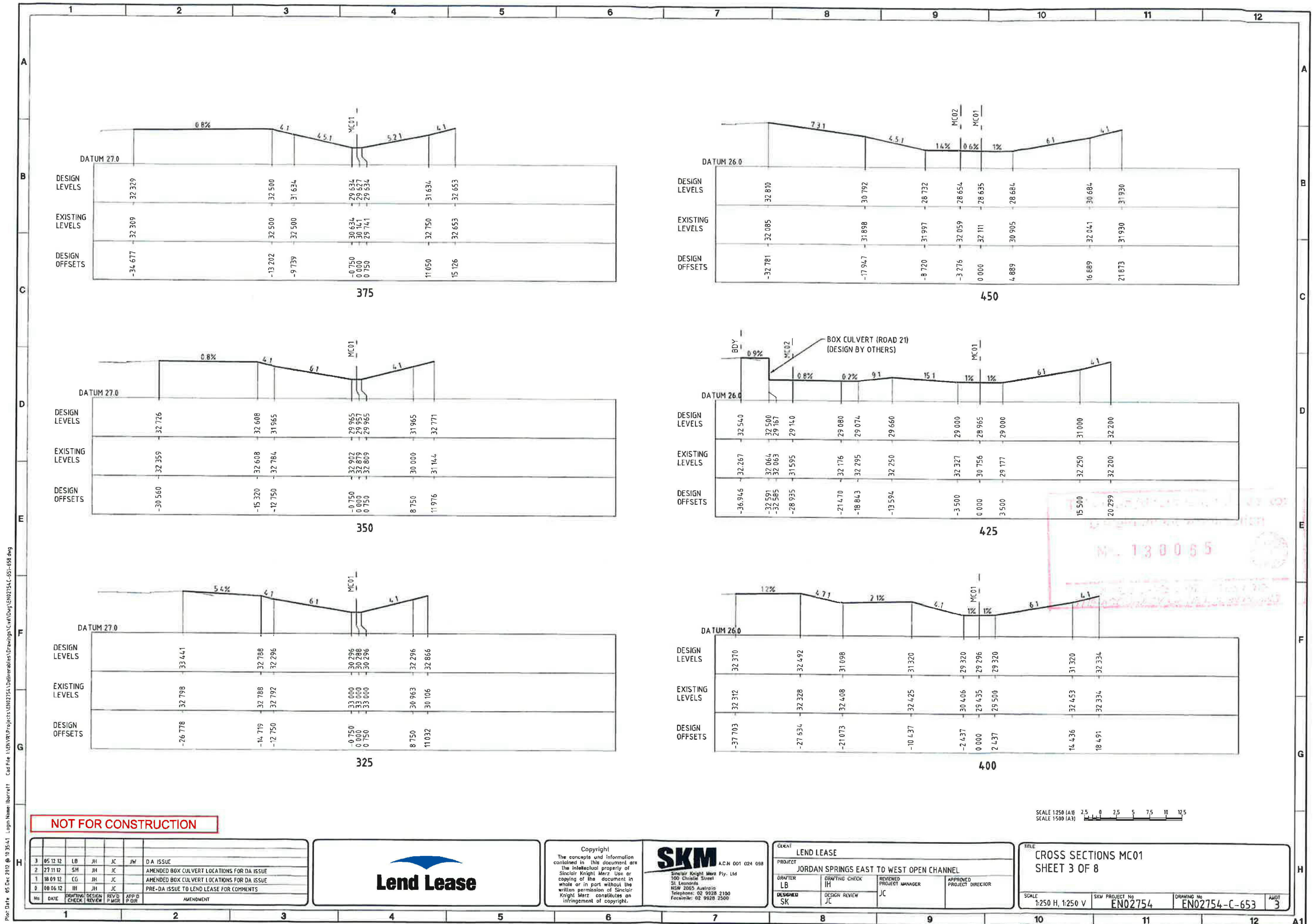


This drawing is not to be used for any purpose other than that for which it was prepared.
No. 130065

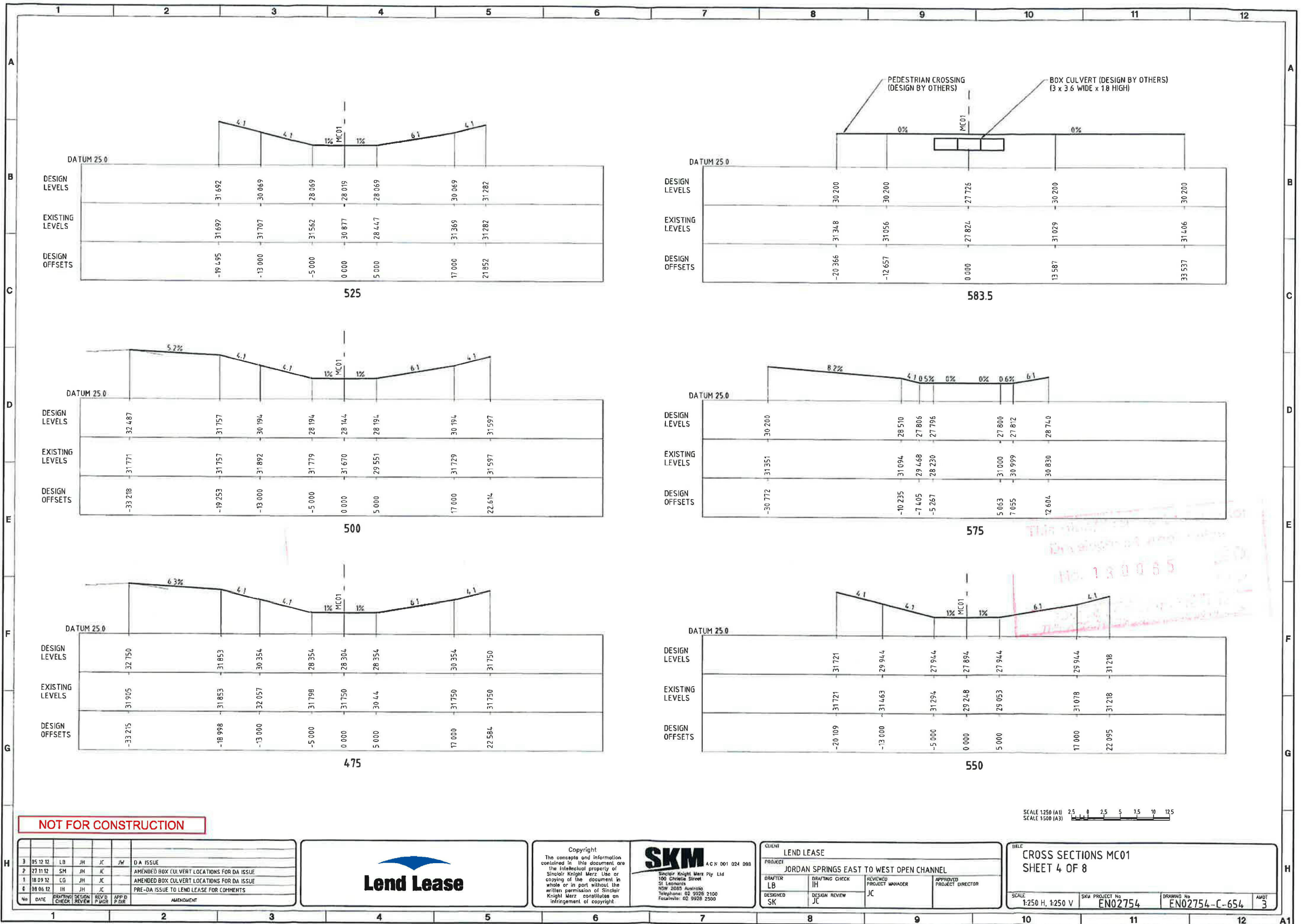


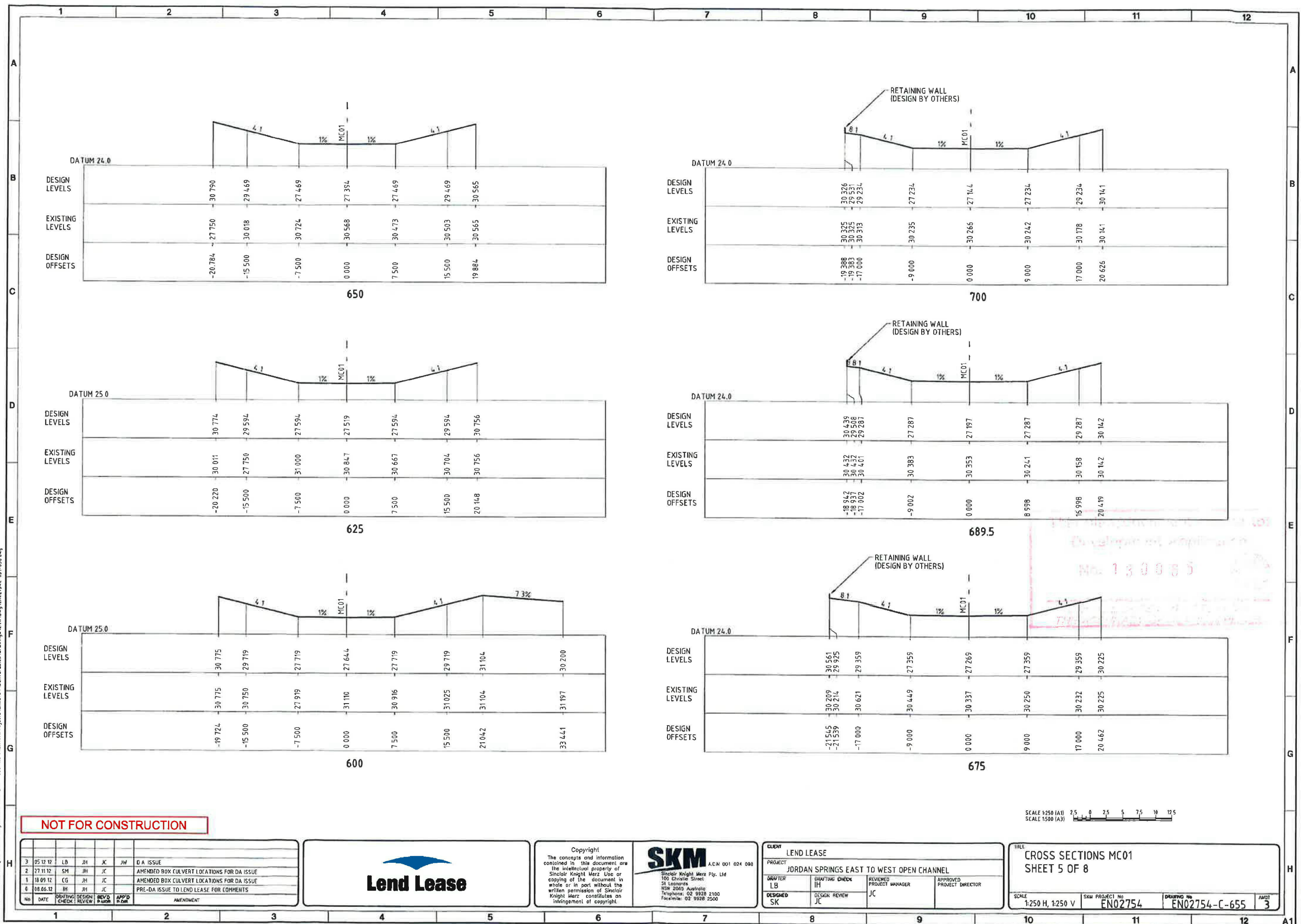
Plot Date: 05 Dec 2012 @ 10:35:00 Login Name: lbarrett Cad File: \\A:\ENVR\Projects\EN02754\Deliverables\Drawings\Drawings\EN02754-C-652-658.dwg

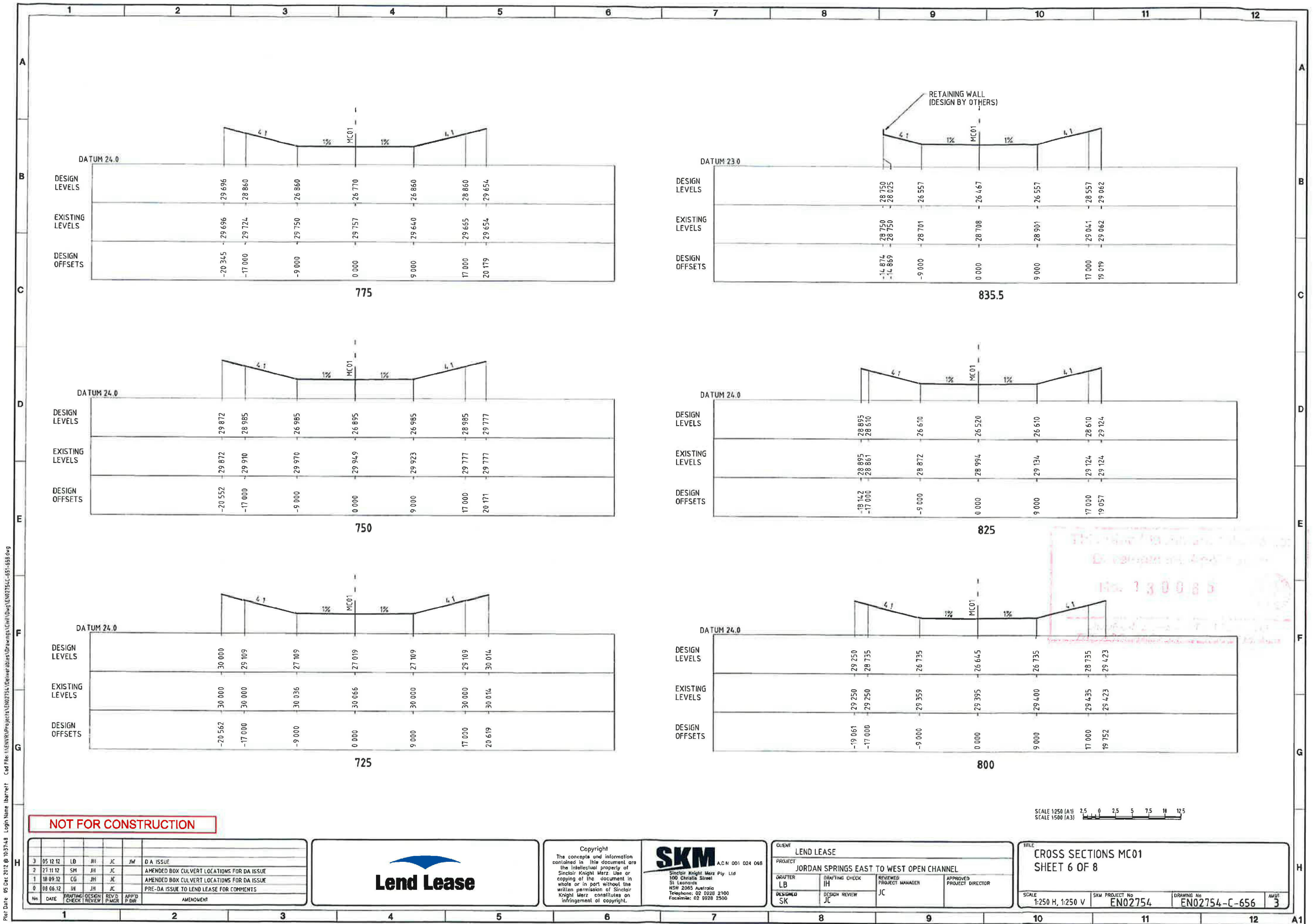




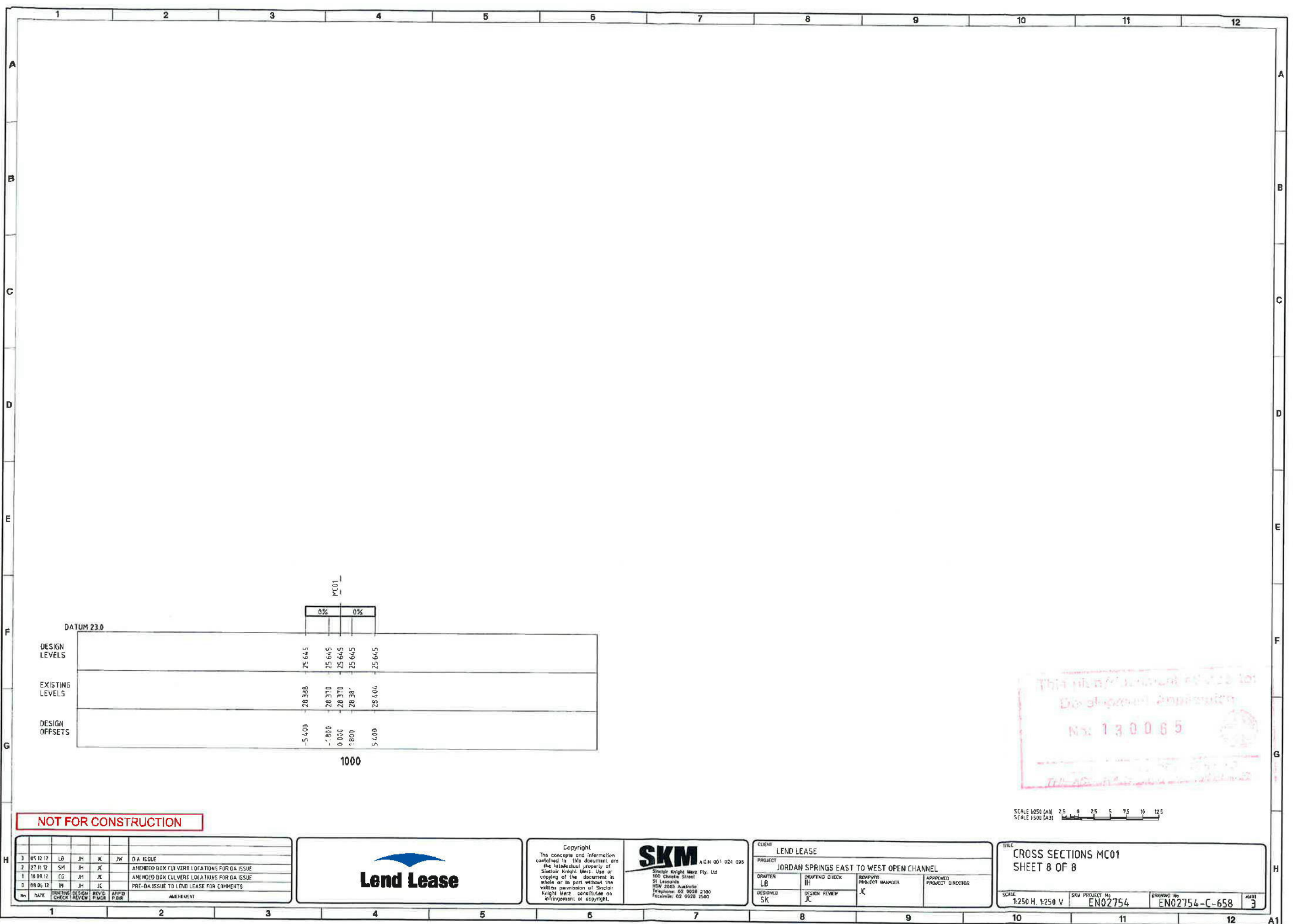
Plot Date: 05 Dec 2012 @ 10:36:22 Login Name: Barrett Cad File: I:\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\Eng\EN02754-C-654-658.dwg







Plot Date: 05 Dec 2012 @ 10:39:02 Login Name: lbarrett - Cad File: I:\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\Drawings\EN02754-C-658.dwg



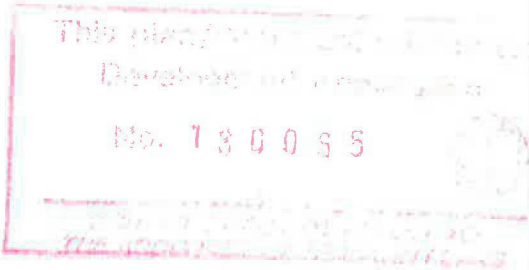
Lend Lease

JORDAN SPRINGS NORTH TO SOUTH OPEN CHANNEL



DRAWING INDEX

DRAWING No	DRAWING TITLE
EN02754-C-501	COVER SHEET AND DRAWING INDEX
EN02754-C-510	OPEN CHANNEL LAYOUT PLAN - SHEET 1 OF 2
EN02754-C-511	OPEN CHANNEL LAYOUT PLAN - SHEET 2 OF 2
EN02754-C-515	TRANSITION DETAIL OF OPEN CHANNEL BASE AT ROAD 8 BOX CULVERT
EN02754-C-516	TRANSITION DETAIL OF OPEN CHANNEL BASE AT ROAD 9 HEADWALL
EN02754-C-531	LONGITUDINAL SECTIONS MC03 - SHEET 1 OF 2
EN02754-C-532	LONGITUDINAL SECTIONS MC03 - SHEET 2 OF 2
EN02754-C-551	CROSS SECTIONS MC03 - SHEET 1 OF 3
EN02754-C-552	CROSS SECTIONS MC03 - SHEET 2 OF 3
EN02754-C-553	CROSS SECTIONS MC03 - SHEET 3 OF 3



SCALE 1:5000 (A1) 0 50 100 150 200 250
SCALE 1:10000 (A3) 0 50 100 150 200 250

NOT FOR CONSTRUCTION

No	DATE	DRAWING CHECK	DESIGN REVIEW	REV'D PUNCH	APPRO'D P.D.M.	AMENDMENT
7	05 12 12	LB	JH	JC	JW	D A ISSUE
1	09 03 12	IH	JC	JC	JW	DA ISSUE TO LEND LEASE FOR COMMENTS
6	06 02 12	IH	JH	JC	JW	PRE-DA ISSUE TO LEND LEASE FOR COMMENTS

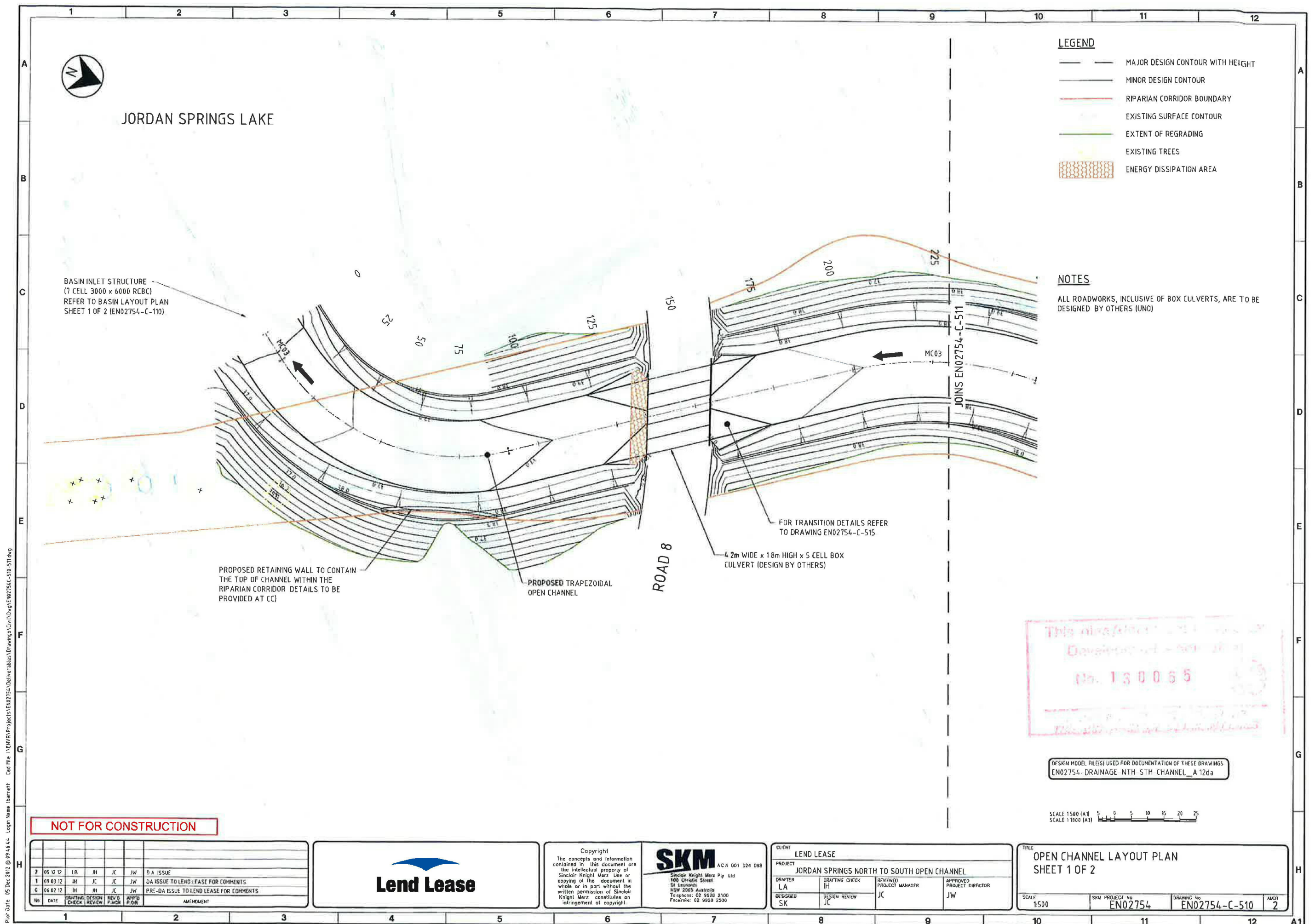
Lend Lease

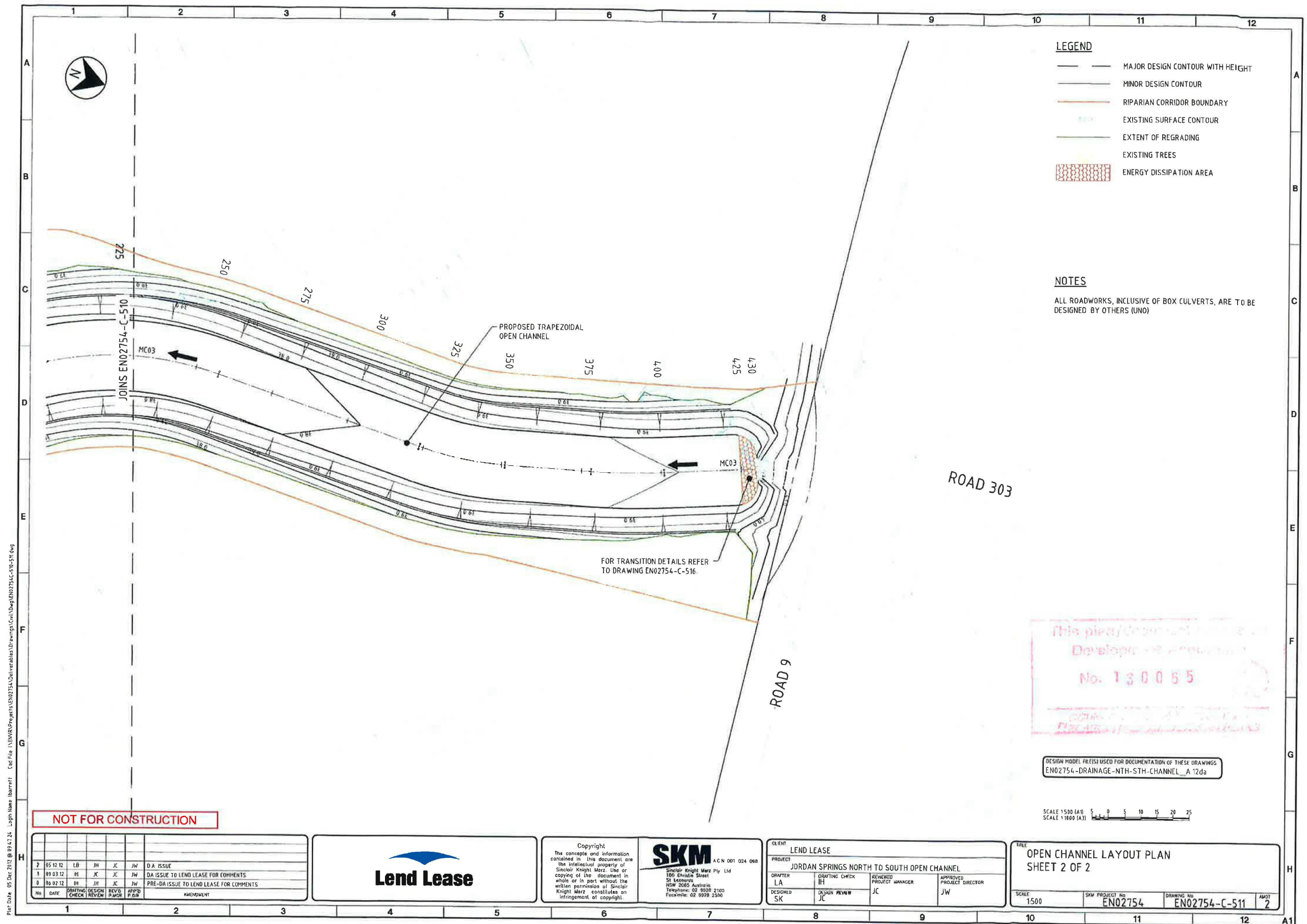
Copyright
The concepts and information contained in this document are the intellectual property of Sinclair Knight Merz. Use or copying of the document in whole or in part without the written permission of Sinclair Knight Merz constitutes an infringement of copyright.

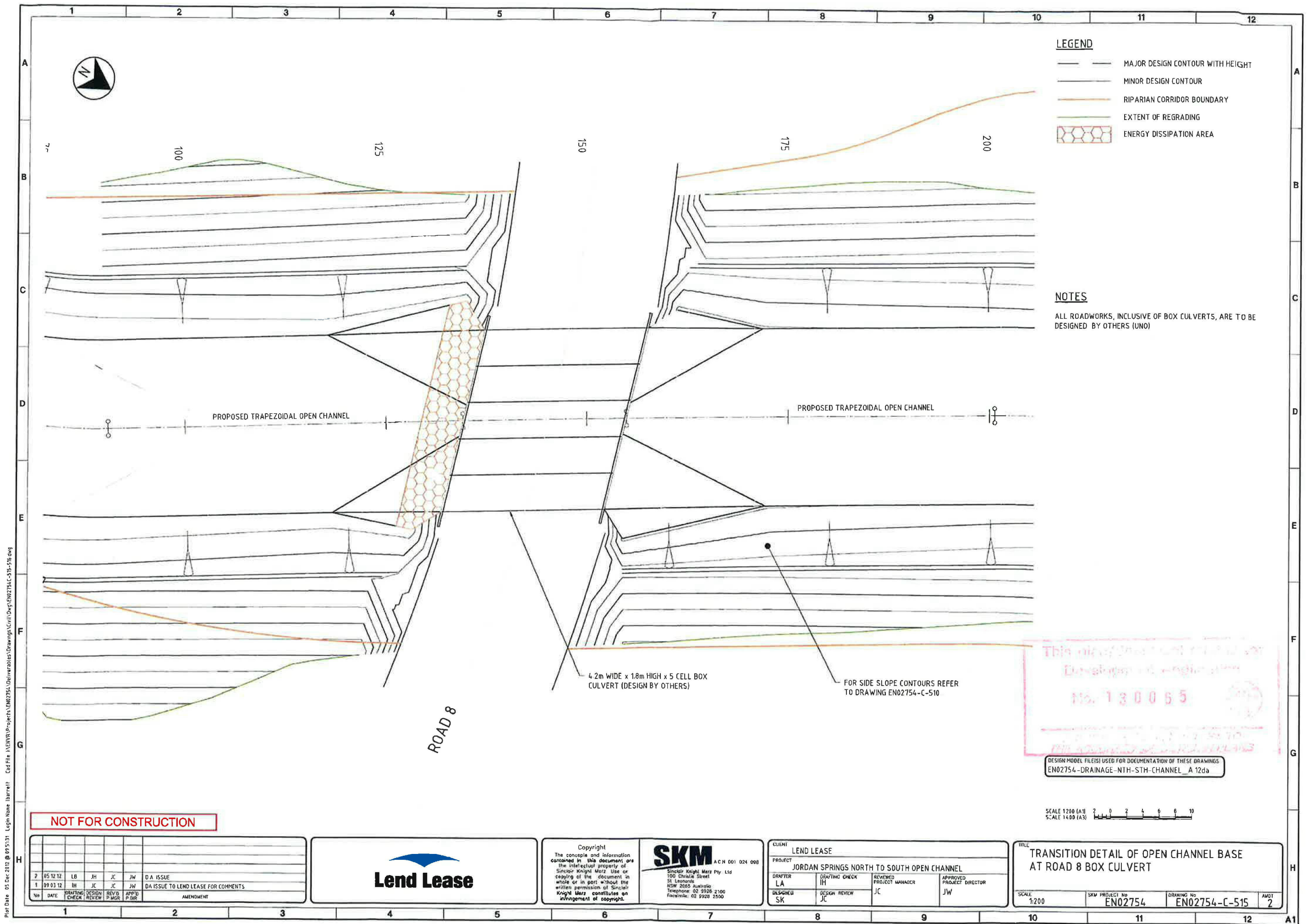
SKM A/CN 001 024 098
Sinclair Knight Merz Pty. Ltd
100 Christie Street
St Leonards
NSW 2055 Australia
Telephone: 02 9928 2100
Facsimile: 02 9928 2500

CLIENT	LEND LEASE
PROJECT	JORDAN SPRINGS NORTH TO SOUTH OPEN CHANNEL
DRAFTER	LA
DRAWING CHECK	IH
DESIGNED	SK
DESIGN REVIEW	JC
REVIEWED	PROJECT MANAGER
APPROVED	PROJECT DIRECTOR
	JW

SCALE	1:5000
SKM PROJECT NO	EN02754
DRAWING NO.	EN02754-C-501
A401	2







LEGEND

- MAJOR DESIGN CONTOUR WITH HEIGHT
- MINOR DESIGN CONTOUR
- RIPARIAN CORRIDOR BOUNDARY
- EXTENT OF REGRADING
- ENERGY DISSIPATION AREA

NOTES

ALL ROADWORKS, INCLUSIVE OF BOX CULVERTS, ARE TO BE DESIGNED BY OTHERS (UNO)

This is a copy of the original drawing and is not to be used for construction purposes.
No. 130055
EN02754-DRAINAGE-NTH-STH-CHANNEL_A 12da

SCALE 1:200 (A1)
SCALE 1:400 (A3)

NOT FOR CONSTRUCTION

DATE	BY	CHECKED	DESIGNED	REV'D	APP'D	AMENDMENT
05/12/12	LB	JH	JC	JW		D.A. ISSUE
09/03/12	IH	JC	JC	JW		DA ISSUE TO LEND LEASE FOR COMMENTS

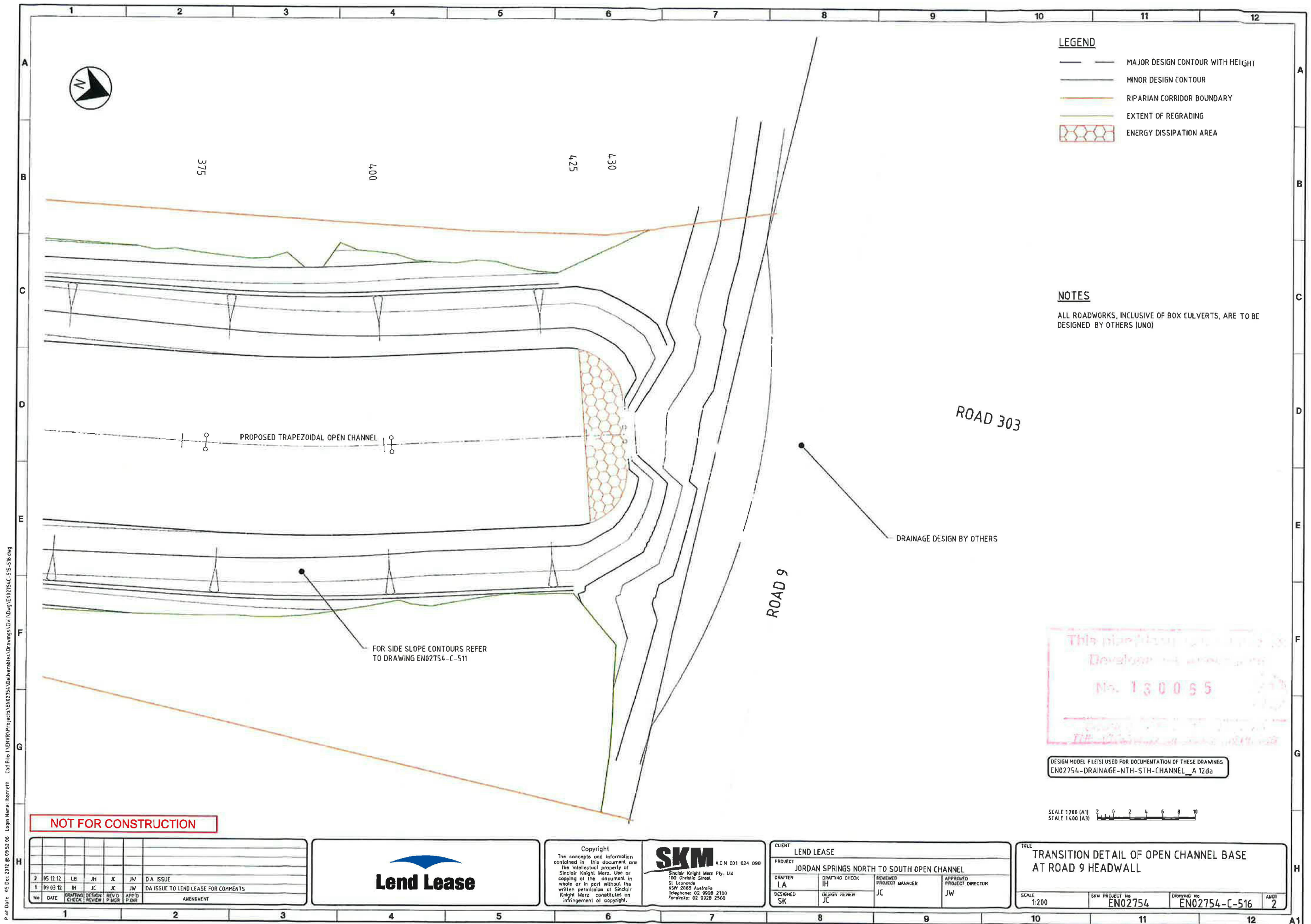


Copyright
The concepts and information contained in this document are the intellectual property of Sinclair Knight Merz. Use or copying of the document in whole or in part without the written permission of Sinclair Knight Merz constitutes an infringement of copyright.

SKM ACN 001 024 098
Sinclair Knight Merz Pty Ltd
100 Chivalia Street
St Leonards
NSW 2055 Australia
Telephone: 02 9526 2100
Facsimile: 02 9526 2500

CLIENT			
LEND LEASE			
PROJECT			
JORDAN SPRINGS NORTH TO SOUTH OPEN CHANNEL			
DRAFTER	DRAFTING CHECK	REVIEWED	APPROVED
LA	IH	PROJECT MANAGER	PROJECT DIRECTOR
SK	JC	JC	JW

TITLE			
TRANSITION DETAIL OF OPEN CHANNEL BASE AT ROAD 8 BOX CULVERT			
SCALE	SKM PROJECT NO	DRAWING NO	AUDI
1:200	EN02754	EN02754-C-515	2



LEGEND

- MAJOR DESIGN CONTOUR WITH HEIGHT
- MINOR DESIGN CONTOUR
- RIPARIAN CORRIDOR BOUNDARY
- EXTENT OF REGRADING
- ENERGY DISSIPATION AREA

NOTES

ALL ROADWORKS, INCLUSIVE OF BOX CULVERTS, ARE TO BE DESIGNED BY OTHERS (UNO)

ROAD 303

ROAD 9

DRAINAGE DESIGN BY OTHERS

PROPOSED TRAPEZOIDAL OPEN CHANNEL

FOR SIDE SLOPE CONTOURS REFER TO DRAWING EN02754-C-511



DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THESE DRAWINGS
EN02754-DRAINAGE-NTH-STH-CHANNEL_A 12da

SCALE 1:200 (A1)
SCALE 1:400 (A3)

NOT FOR CONSTRUCTION

NO	DATE	DRAWING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
2	05/12/12	LB	JH	JC	JW	DA ISSUE
1	09/03/12	JH	JC	JC	JW	DA ISSUE TO LEND LEASE FOR COMMENTS

Lend Lease

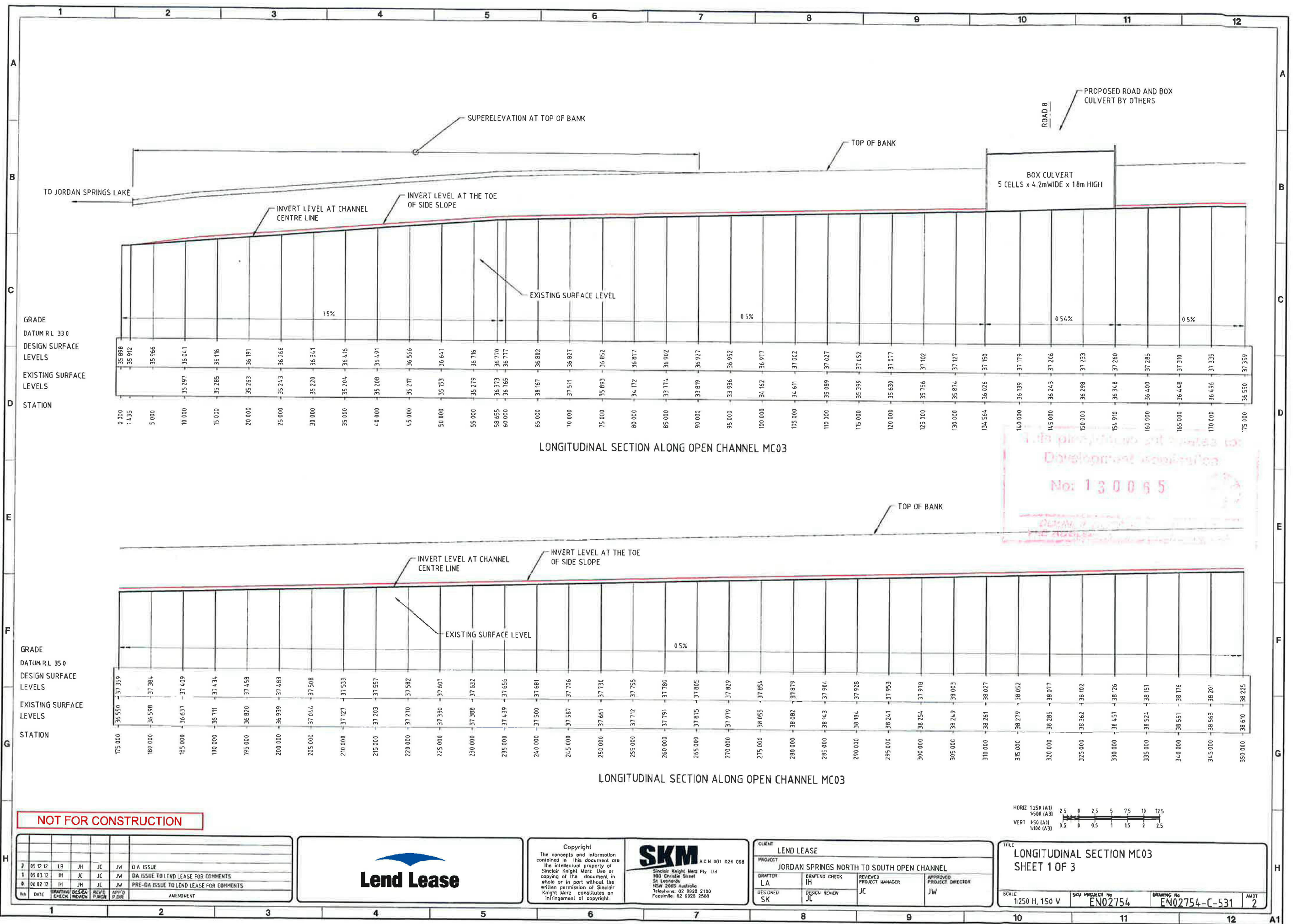
Copyright
The concepts and information contained in this document are the intellectual property of Sinclair Knight Merz. Use or copying of the document in whole or in part without the written permission of Sinclair Knight Merz constitutes an infringement of copyright.

SKM A.C.N. 001 024 098
Sinclair Knight Merz Pty. Ltd.
100 Christie Street
St Leonards
NSW 2065 Australia
Telephone: 02 9928 2100
Facsimile: 02 9928 2500

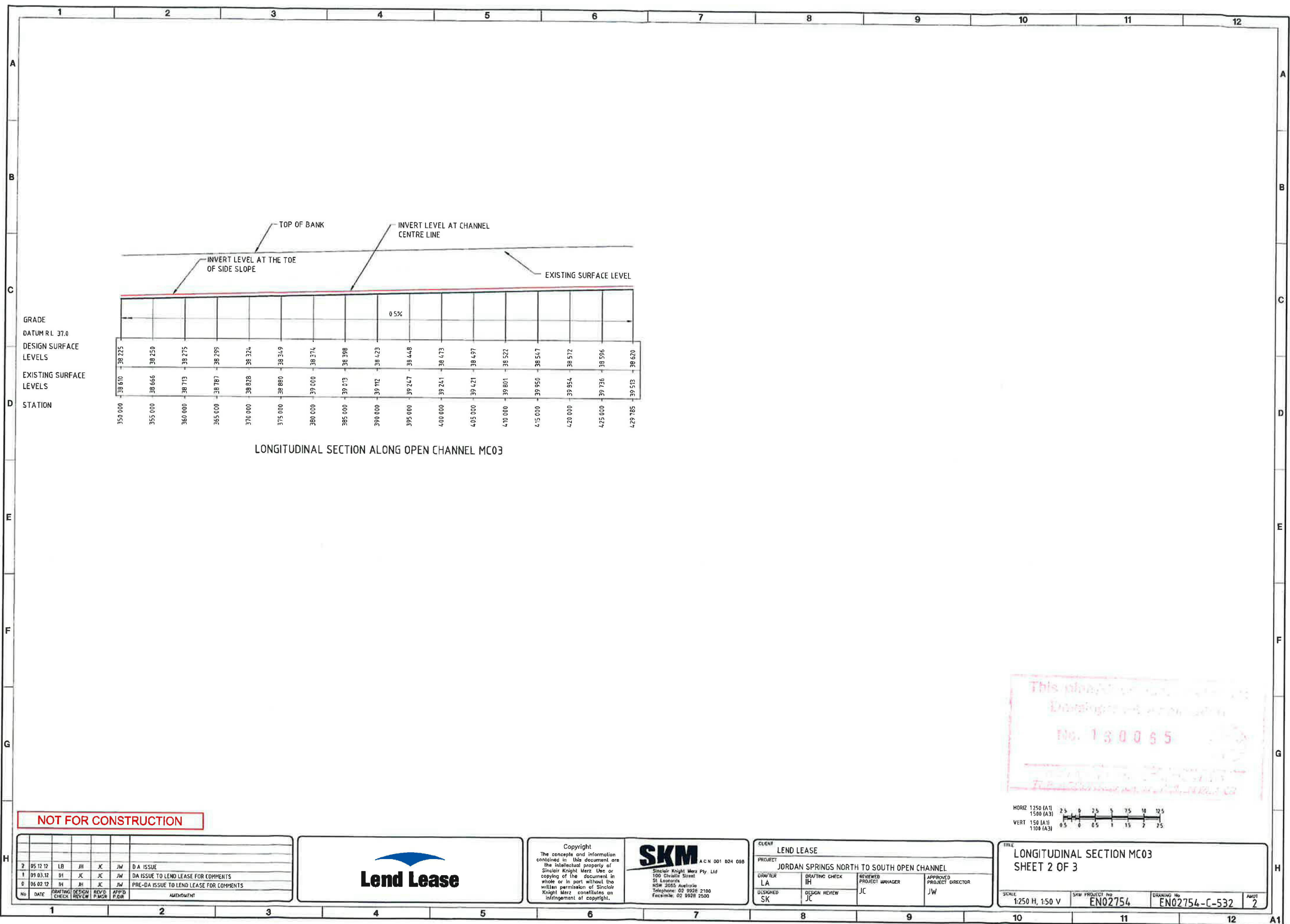
CLIENT			
LEND LEASE			
PROJECT			
JORDAN SPRINGS NORTH TO SOUTH OPEN CHANNEL			
DRAFTER	DRAFTING CHECK	REVIEWED	APPROVED
LA	IH	PROJECT MANAGER	PROJECT DIRECTOR
DESIGNED	DESIGN REVIEW	JC	JW
SK	JC		

TITLE			
TRANSITION DETAIL OF OPEN CHANNEL BASE AT ROAD 9 HEADWALL			
SCALE	SKM PROJECT NO	DRAWING NO	AUT
1:200	EN02754	EN02754-C-516	2

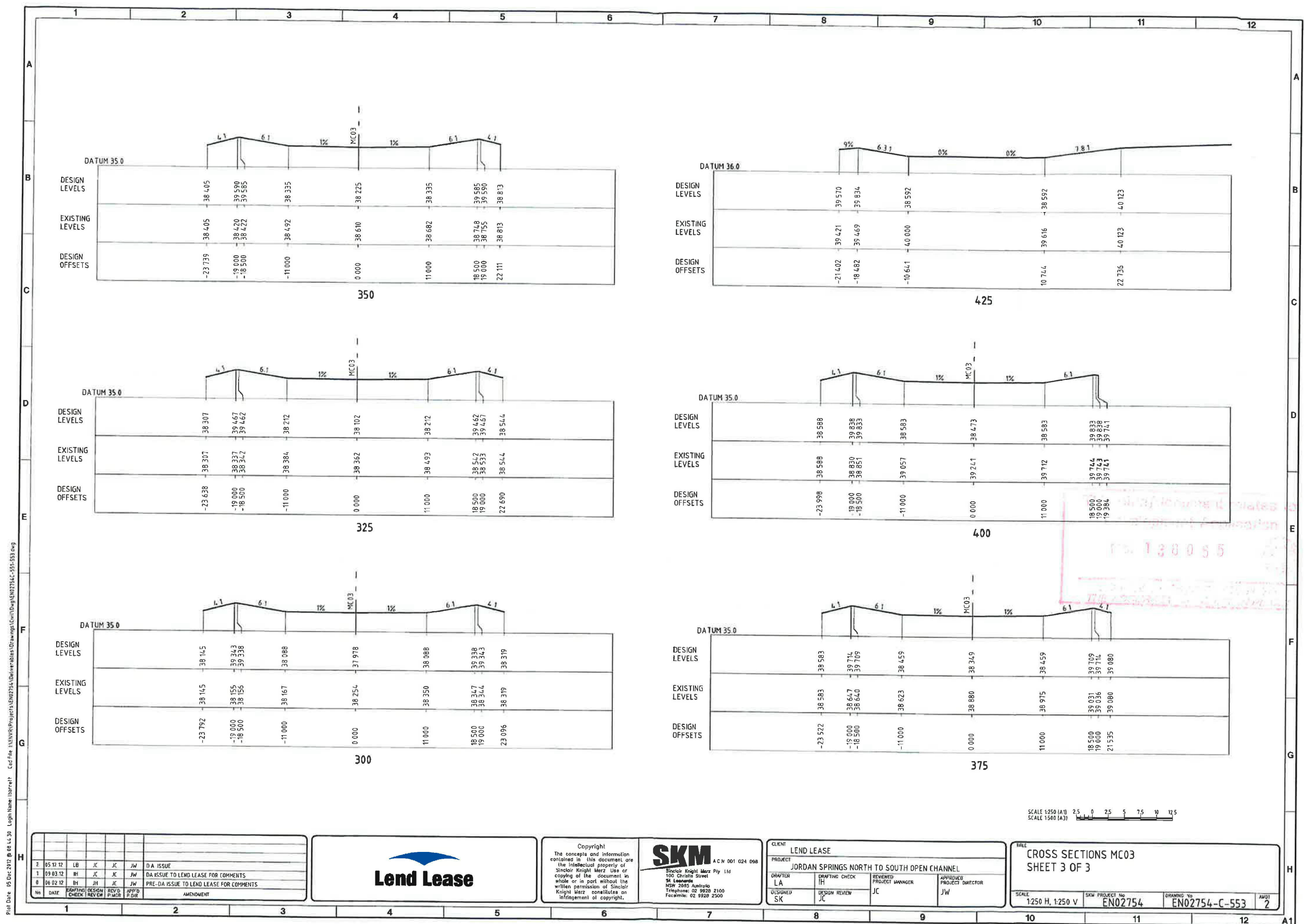
Plot Date: 05 Dec 2017 @ 09:01:51 Logon Name: lbarrett Cad File: I:\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\Drawings\EN02754-C-531.dwg

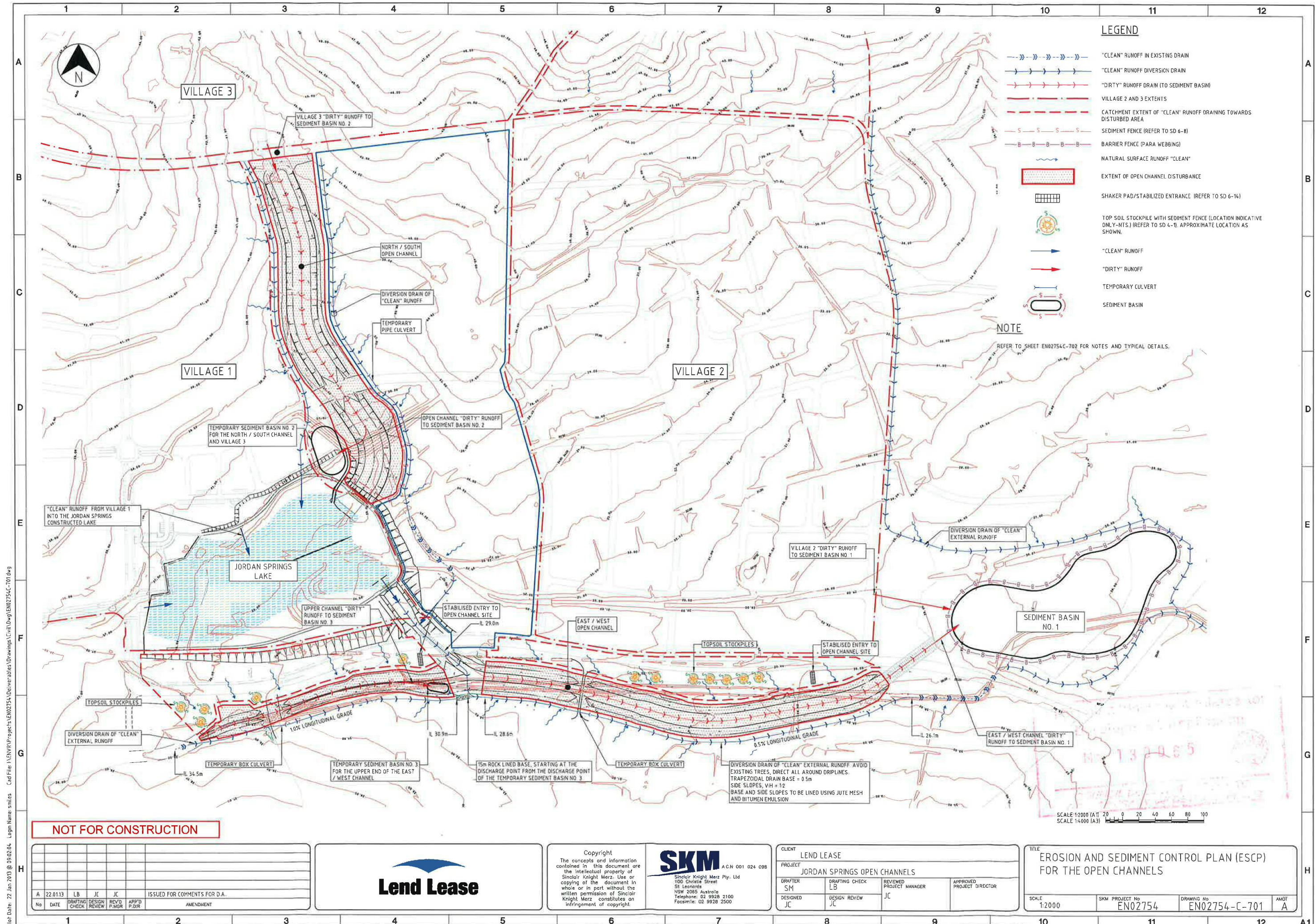


Plot Date: 05 Dec 2012 @ 09:00:50 Login Name: lbarrett1 Cad File: \\ENV\RP\Projects\EN02754\Deliverables\Drawings\Civil\Long\EN02754-C-531-532.dwg









- LEGEND**
- "CLEAN" RUNOFF IN EXISTING DRAIN
 - "CLEAN" RUNOFF DIVERSION DRAIN
 - "DIRTY" RUNOFF DRAIN (TO SEDIMENT BASIN)
 - VILLAGE 2 AND 3 EXTENTS
 - CATCHMENT EXTENT OF "CLEAN" RUNOFF DRAINING TOWARDS DISTURBED AREA
 - SEDIMENT FENCE (REFER TO SD 6-8)
 - BARRIER FENCE (PARA WEBBING)
 - NATURAL SURFACE RUNOFF "CLEAN"
 - EXTENT OF OPEN CHANNEL DISTURBANCE
 - SHAKER PAD/STABILISED ENTRANCE (REFER TO SD 6-14)
 - TOP SOIL STOCKPILE WITH SEDIMENT FENCE (LOCATION INDICATIVE ONLY-N.T.S.) (REFER TO SD 4-1) APPROXIMATE LOCATION AS SHOWN
 - "CLEAN" RUNOFF
 - "DIRTY" RUNOFF
 - TEMPORARY CULVERT
 - SEDIMENT BASIN

NOTE
REFER TO SHEET EN02754C-702 FOR NOTES AND TYPICAL DETAILS.

NOT FOR CONSTRUCTION

No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.M.O.R	APP'D P.D.R	AMENDMENT
A	22.01.13	LB	JC	JC		ISSUED FOR COMMENTS FOR D.A.

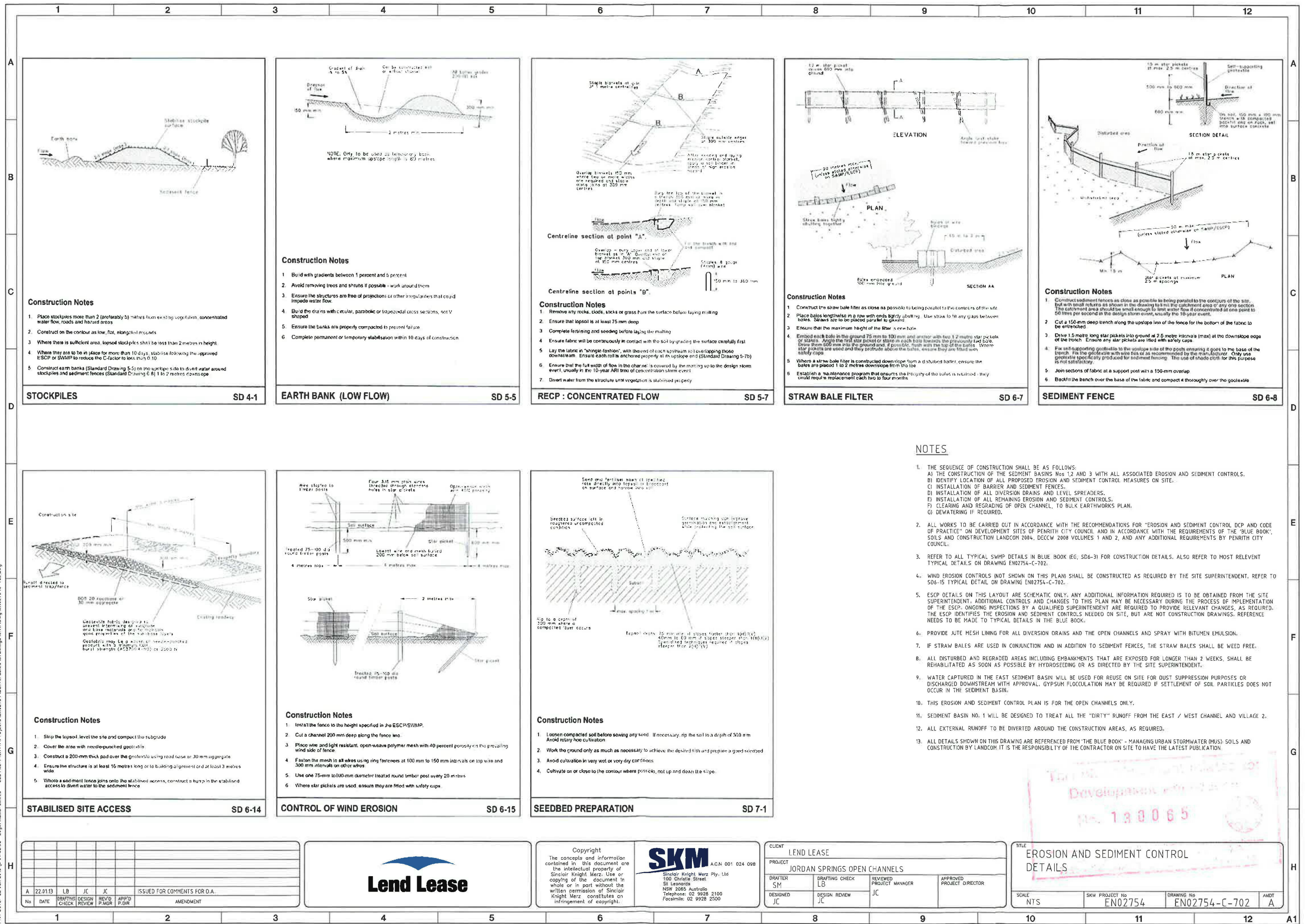
Lend Lease

Copyright
The concepts and information contained in this document are the intellectual property of Sinclair Knight Merz. Use or copying of the document in whole or in part without the written permission of Sinclair Knight Merz constitutes an infringement of copyright.

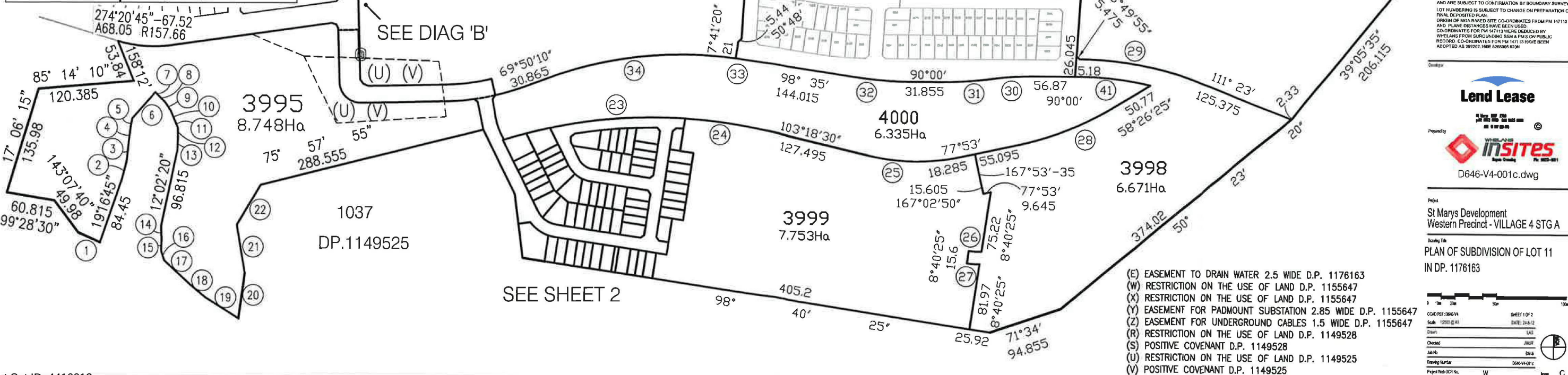
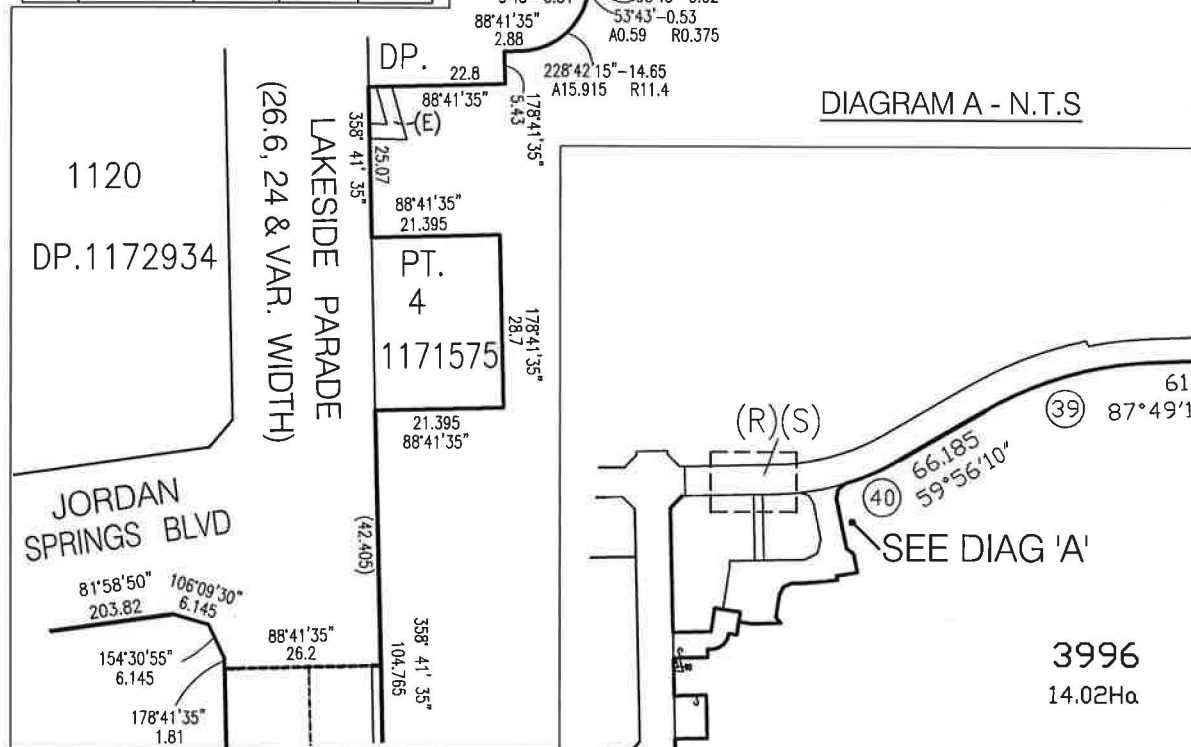
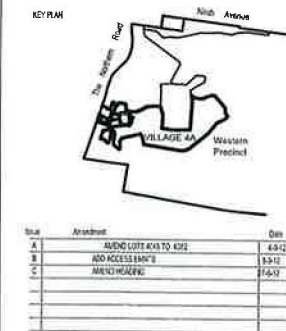
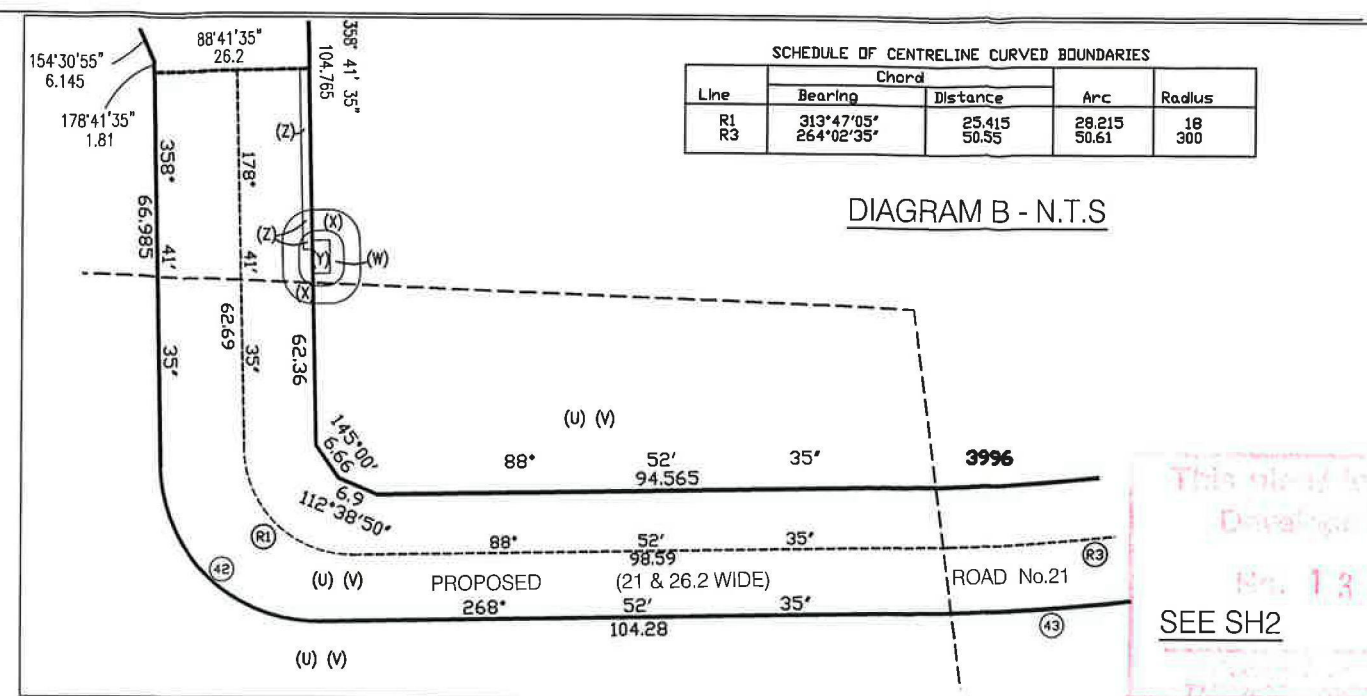
SKM A.C.N. 001 024 098
Sinclair Knight Merz Pty. Ltd
100 Christie Street
St Leonards
NSW 2085 Australia
Telephone: 02 9928 2100
Facsimile: 02 9928 2500

CLIENT LEND LEASE			
PROJECT JORDAN SPRINGS OPEN CHANNELS			
DRAFTER SM	DRAFTING CHECK LB	REVIEWED PROJECT MANAGER JC	APPROVED PROJECT DIRECTOR JC
DESIGNED JC	DESIGN REVIEW JC		

TITLE EROSION AND SEDIMENT CONTROL PLAN (ESCP) FOR THE OPEN CHANNELS			
SCALE 1:2000	SKM PROJECT No EN02754	DRAWING No EN02754-C-701	AMOUNT A



SCHEDULE OF CURVED BOUNDARIES				
Line	Bearing	Distance	Arc	Radius
1	113°58'55"	30.11		
2	194°42'50"	22.645		
3	186°16'55"	25.125		
4	187°11'20"	17.615		
5	10°25'40"	11.15		
6	41°43'55"	44.195		
7	313°52'40"	3.16		
8	315°25'30"	14.78		
9	326°36'10"	12.69		
10	337°40'40"	13.945		
11	335°40'55"	9.6		
12	358°53'20"	11.29		
13	2°42'15"	16.975		
14	358°53'20"	16.935		
15	1°05'30"	14.69		
16	342°56'15"	12.33		
17	312°21'25"	45.135		
18	310°03'50"	24.01		
19	302°16'	48.765		
20	8°07'35"	57.075		
21	350°32'10"	60.815		
22	30°57'50"	58.295		
23	85°53'10"	171.275	634.4	
24	98°27'50"	107.15	257.1	
25	270°35'45"	117.555	118.525	
26	272°44'15"	15.965	77.2	
27	273°44'45"	15.94	92.8	
28	68°09'45"	133.12	394.16	
29	100°42'25"	152.275	411	
30	86°10'40"	52.665	395	
31	266°10'40"	67.335	505	
32	274°17'30"	75.58	505	
33	98°09'05"	7.47	495	
34	83°46'40"	238.515	495	
35	173°37'55"	31.065	89.2	
36	144°13'55"	20.035	30.2	
37	107°47'55"	27.11	46.6	
38	89°16'45"	19.875	390.7	
39	73°52'40"	115.995	240.7	
40	246°30'40"	38.89	169.8	



NOTE:
NO BOUNDARY SURVEY HAS BEEN UNDERTAKEN.
DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE ONLY
AND ARE SUBJECT TO CONFIRMATION BY BOUNDARY SURVEY.
LOT NUMBERING IS SUBJECT TO CHANGE ON PREPARATION OF
FINAL DEPOSITED PLAN.
ORDINATE OF AREA BASED SITE COORDINATES FROM PM 147113
AND PLANE DISTANCES HAVE BEEN USED.
COORDINATES FOR PM 147113 WERE DEDUCED BY
HYDRAULIC FROM SURROUNDING DATA & PM 2 ON PUBLIC
RECORD. COORDINATES FOR PM 147113 HAVE BEEN
ADOPTED AS 992207.100E 6266005.820N

Lend Lease

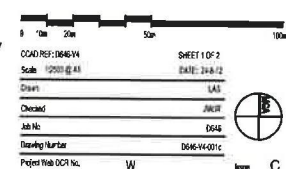
Proposed by

INSITES
Engineering & Surveying

D646-V4-001c.dwg

Project
St Marys Development
Western Precinct - VILLAGE 4 STG A

Drawing Title
PLAN OF SUBDIVISION OF LOT 11
IN DP. 1176163



- (E) EASEMENT TO DRAIN WATER 2.5 WIDE D.P. 1176163
(W) RESTRICTION ON THE USE OF LAND D.P. 1155647
(X) RESTRICTION ON THE USE OF LAND D.P. 1155647
(Y) EASEMENT FOR PADMOUNT SUBSTATION 2.85 WIDE D.P. 1155647

DIAGRAM A - N.T.S

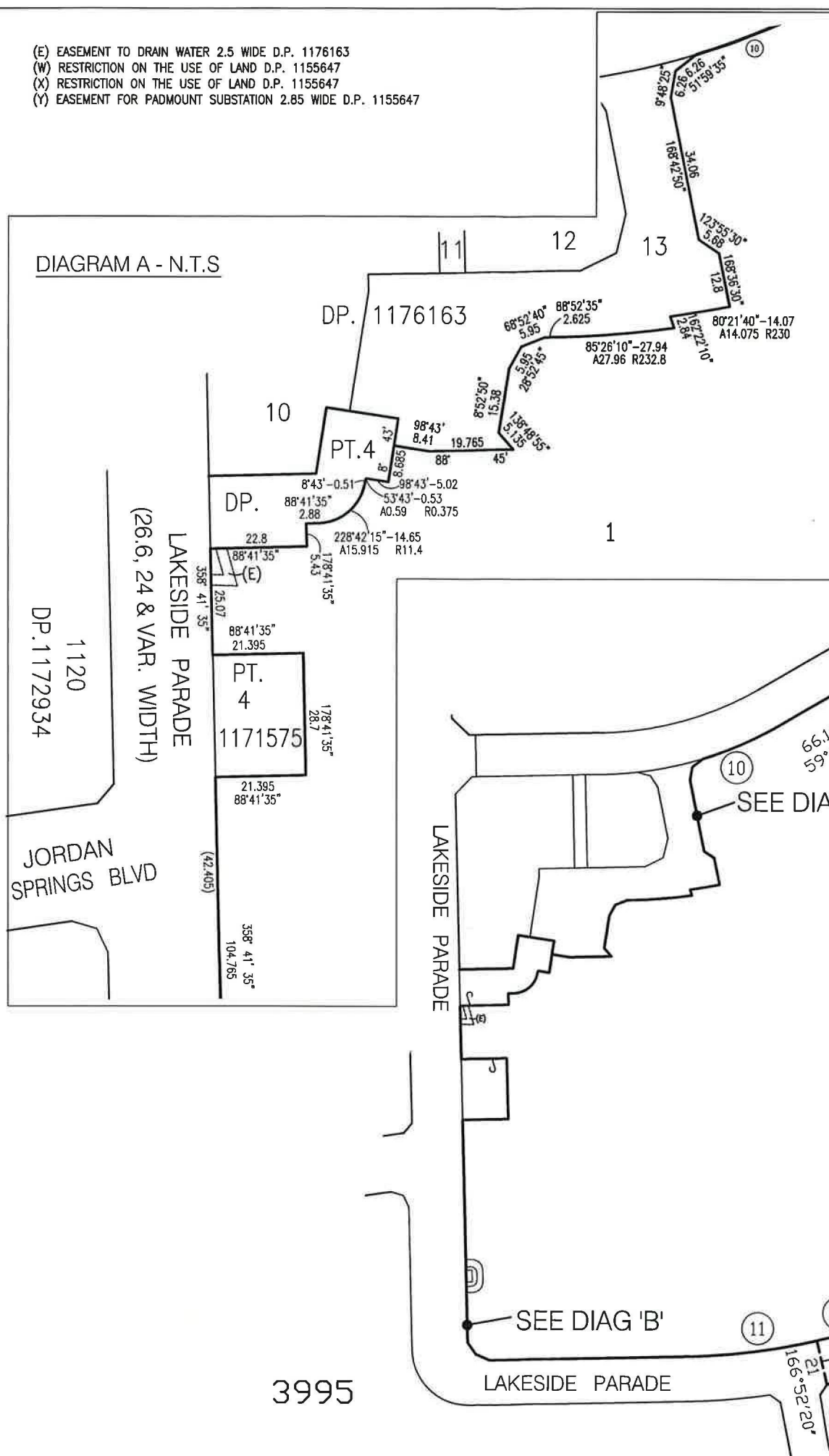
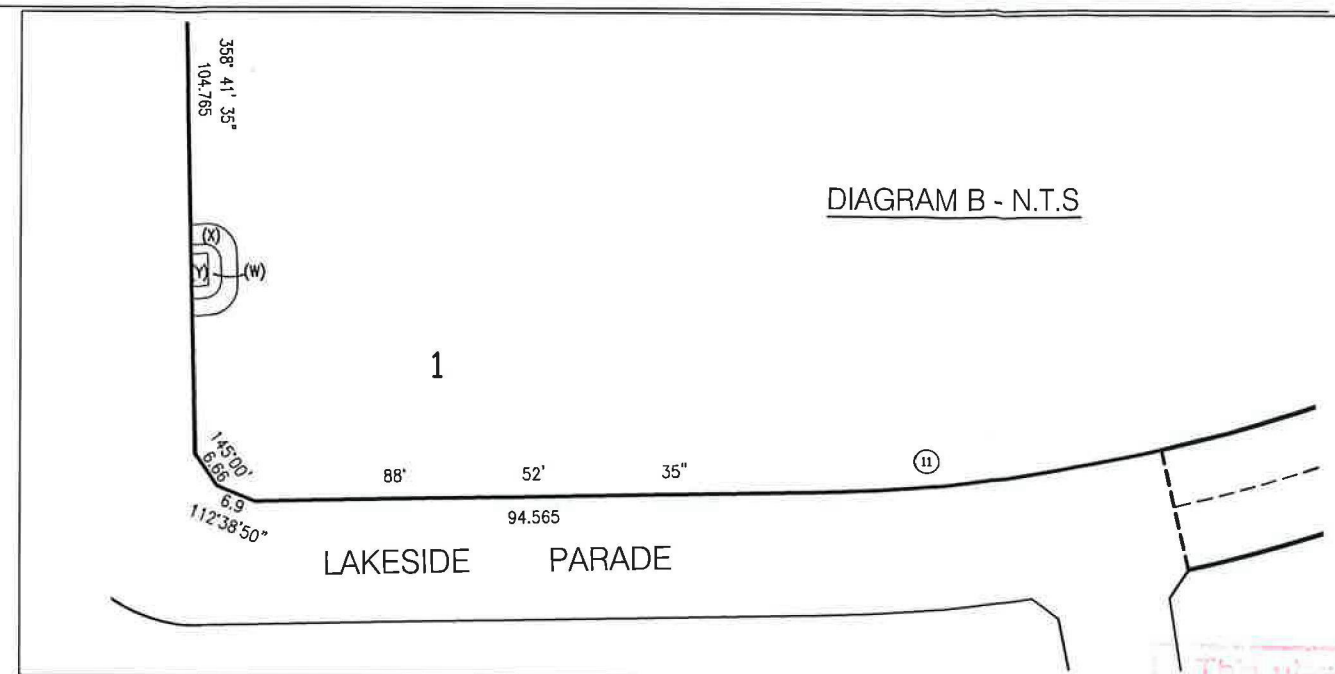


DIAGRAM B - N.T.S

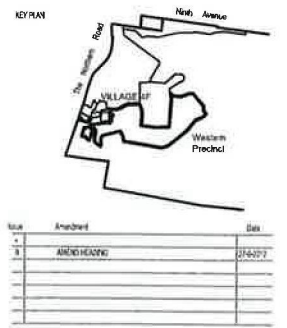


SCHEDULE OF CENTRELINE CURVED BOUNDARIES

Line	Chord		Arc	Radius
	Bearing	Distance		
R1	253°21'15"	36.82	36.845	300
R2	83°46'35"	243.61	246.235	506

SCHEDULE OF CURVED BOUNDARIES

Line	Chord		Arc	Radius
	Bearing	Distance		
1	253°21'15"	35.595	35.615	290
2	263°46'35"	248.625	251.095	516
3	73°21'15"	38.17	38.195	311
4	83°46'35"	238.515	240.885	495
5	173°37'55"	31.065	31.225	89.2
6	144°13'55"	20.035	20.42	30.2
7	107°47'55"	27.11	27.515	46.2
8	89°16'45"	19.875	19.88	390.7
9	73°52'40"	115.995	117.145	240.7
10	246°30'40"	38.89	38.975	169.8
11	262°52'25"	60.645	60.755	290



THIS PLAN IS A PRELIMINARY PLAN FOR THE PURPOSE OF OBTAINING A DEVELOPMENT APPLICATION ONLY. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE. NO. 130065

NOTES
NO BOUNDARY SURVEY HAS BEEN UNDERTAKEN.
DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE ONLY AND ARE SUBJECT TO CONFIRMATION BY BOUNDARY SURVEY.
LOT NUMBERING IS SUBJECT TO CHANGE ON PREPARATION OF FINAL DEPOSITED PLAN.
ORIGIN OF MGA BASED SITE CO-ORDINATES FROM PM 147113 AND PLANE DISTANCES HAVE BEEN USED.
CO-ORDINATES FOR PM 147113 WERE DERIVED BY WIRELANS FROM SURROUNDING SSM & PMS ON PUELO RECORD. CO-ORDINATES FOR PM 147113 HAVE BEEN ADOPTED AS 282202 16CE ERM605 800N

Developer
Lend Lease
Prepared by
insites
D646-V4-006b.dwg

Project
St Marys Development
Western Precinct - VILLAGE 4 STG F
Drawing Title
PLAN OF SUBDIVISION OF LOT 3996
A SUBDIVISION OF LOT 11
IN DP. 1176163

Scale 1:2000 @ A1
Drawn LRS
Checked JAC
Date 10/03/2014
Drawing Number D646-V4-006b
Project File D646-V4-006b

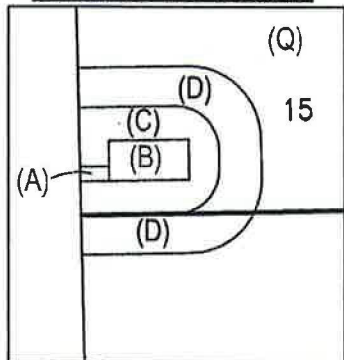


Line	Bearing	Distance	Area	Notes
1	79°21'24"	88.938	96.27	319
2	228°42'15"	14.16	15.355	11
3	76°59'25"	128.525	158.86	316
4	244°34'49"	38.19	38.175	149.8
5	79°54'52"	55.495	55.815	159.2
6	39°37'23"	73.48	73.765	316
7	339°08'25"	13.81	13.815	164.5
8	62°21'35"	29.365	29.37	249.7
9	81°32'25"	17.485	17.485	249.3
10	142°19'25"	34.355	34.355	125
11	332°39'24"	30.315	31.3	33
12	331°19'24"	11.37	11.395	58
13	84°59'15"	48.47	48.49	514
14	342°17'46"	85.17	25.235	100
15	71°41'29"	57.095	58.135	248.7
16	175°59'25"	13.355	13.37	100
17	161°49'25"	58.195	58.395	204
18	79°27'05"	89.2	48.335	208.3
19	340°30'55"	34.505	34.57	175
20	339°47'25"	26.44	26.48	208
21	337°07'12"	16.715	16.715	152.5
22	77°39'59"	5.195	5.195	204.7
23	89°12'25"	38.7	38.74	248.7
24	343°04'15"	44.518	45.16	78
25	83°10'05"	41.02	41.485	251.5
26	183°16'25"	11.445	11.435	49
27	171°13'	19.315	19.425	78
28	267°48'35"	76.92	77	481
29	89°16'45"	19.875	19.88	319.7
30	89°14'45"	20.48	20.48	446.5
31	173°37'55"	31.615	31.225	89.2
32	107°47'55"	27.11	27.515	44.2
33	93°11'	19.445	19.41	268
34	144°13'55"	20.835	20.42	38.2
35	233°28'25"	19.715	21.475	14.5

SCHEDULE OF CURVED BOUNDARIES

Line	Bearing	Distance	Area	Notes
1	79°21'24"	88.938	96.27	319
2	228°42'15"	14.16	15.355	11
3	76°59'25"	128.525	158.86	316
4	244°34'49"	38.19	38.175	149.8
5	79°54'52"	55.495	55.815	159.2
6	39°37'23"	73.48	73.765	316
7	339°08'25"	13.81	13.815	164.5
8	62°21'35"	29.365	29.37	249.7
9	81°32'25"	17.485	17.485	249.3
10	142°19'25"	34.355	34.355	125
11	332°39'24"	30.315	31.3	33
12	331°19'24"	11.37	11.395	58
13	84°59'15"	48.47	48.49	514
14	342°17'46"	85.17	25.235	100
15	71°41'29"	57.095	58.135	248.7
16	175°59'25"	13.355	13.37	100
17	161°49'25"	58.195	58.395	204
18	79°27'05"	89.2	48.335	208.3
19	340°30'55"	34.505	34.57	175
20	339°47'25"	26.44	26.48	208
21	337°07'12"	16.715	16.715	152.5
22	77°39'59"	5.195	5.195	204.7
23	89°12'25"	38.7	38.74	248.7
24	343°04'15"	44.518	45.16	78
25	83°10'05"	41.02	41.485	251.5
26	183°16'25"	11.445	11.435	49
27	171°13'	19.315	19.425	78
28	267°48'35"	76.92	77	481
29	89°16'45"	19.875	19.88	319.7
30	89°14'45"	20.48	20.48	446.5
31	173°37'55"	31.615	31.225	89.2
32	107°47'55"	27.11	27.515	44.2
33	93°11'	19.445	19.41	268
34	144°13'55"	20.835	20.42	38.2
35	233°28'25"	19.715	21.475	14.5

DIAGRAM 2 - NOT TO SCALE



- (A) EASEMENT FOR UNDERGROUND CABLES 1 WIDE (D.P. 1168994)
 (B) EASEMENT FOR PADMOUNT SUBSTATION 2.75 WIDE (D.P. 1168994)
 (C) RESTRICTION ON THE USE OF LAND (D.P. 1168994)
 (D) RESTRICTION ON THE USE OF LAND (D.P. 1168994)
 (E) POSITIVE COVENANT (D.P. 1158660)
 (JJ) POSITIVE COVENANT (D.P. 1168994)
 (KK) POSITIVE COVENANT (D.P. 1168995)
 (Q) RESTRICTION ON THE USE OF LAND (D.P. 1149528)

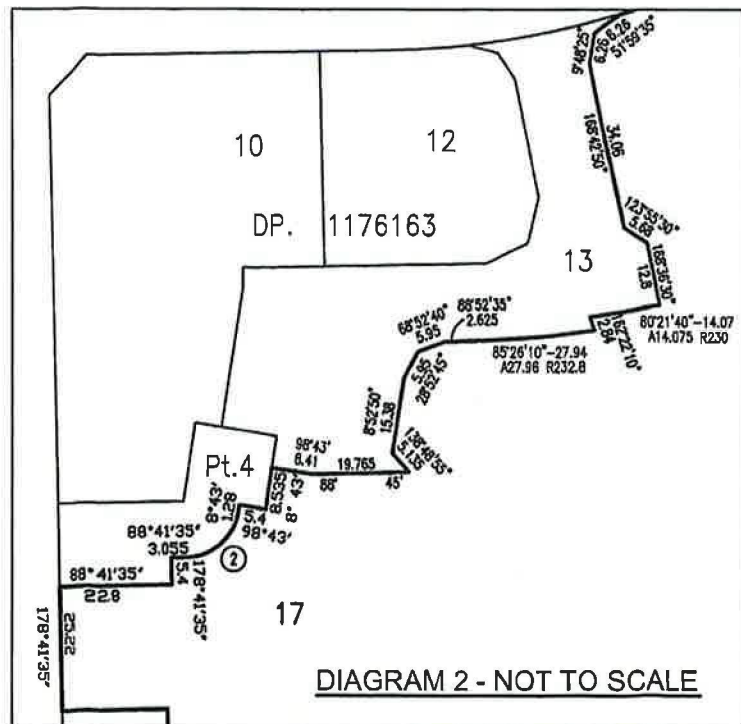
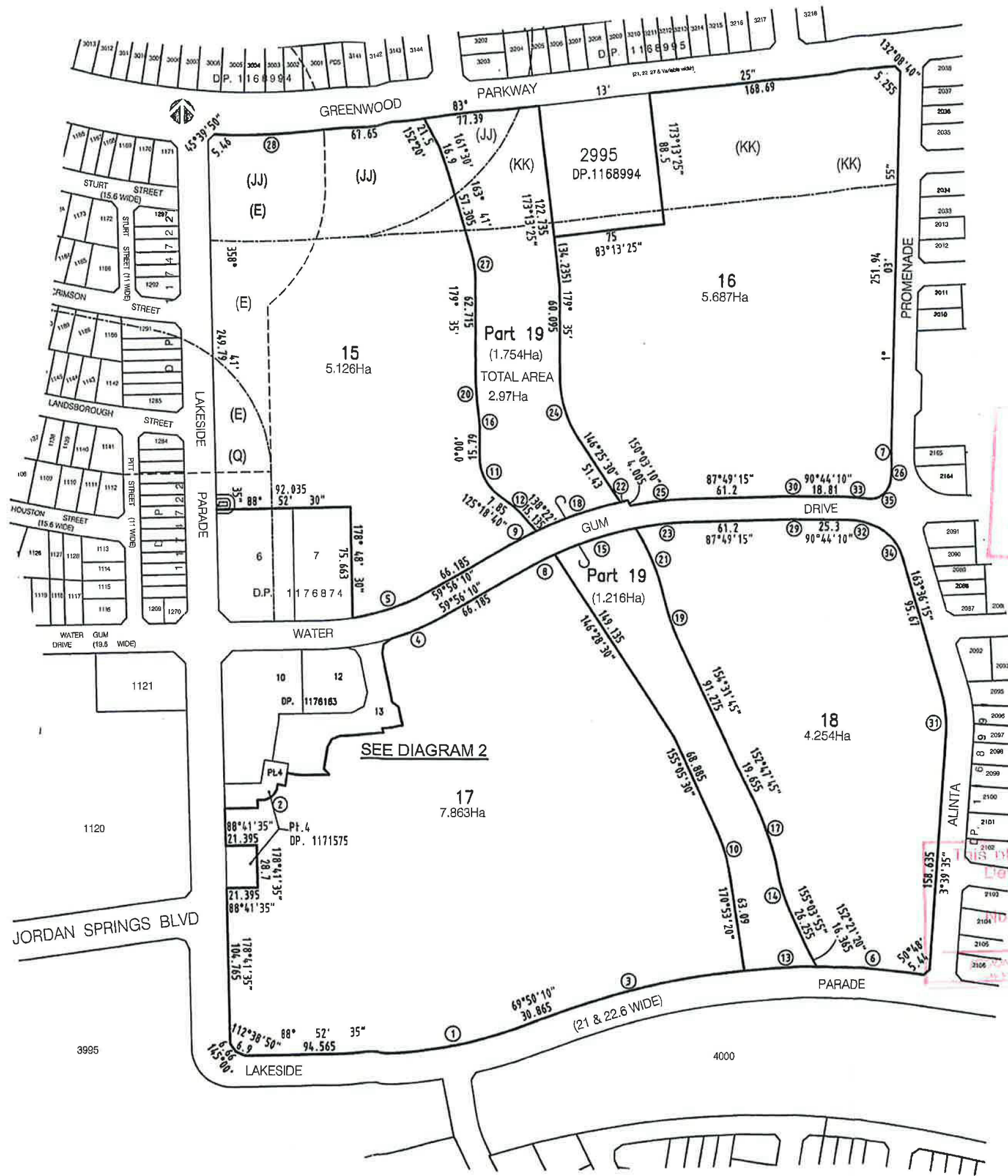


DIAGRAM 2 - NOT TO SCALE



St Marys Development
 Jordan Springs
 RIPARIAN CORRIDOR
 Plan of subdivision of Lot 8
 in DP. 1176874 & Lot 1 in a
 subdivision of Lot 3996 a
 proposed subdivision of Lot 5
 in DP. 1176163

Lend Lease
 Prepared by
INSITES
 CAD REF: D646-RIP-001b.dwg
 DATE OF PLAN: 21-9-11

NO BOUNDARY SURVEY HAS BEEN UNDERTAKEN.
 BOUNDARY AND AREA INFORMATION IS FOR INFORMATION ONLY.
 AND IS SUBJECT TO COMPARISON BY BOUNDARY SURVEY.
 IF A BOUNDARY SURVEY IS UNDERTAKEN, THE SURVEYOR SHALL
 BE RESPONSIBLE FOR THE CORRECTION OF THE PLAN.
 THE PLAN IS NOT TO BE USED FOR ANY OTHER PURPOSE.
 THE PLAN IS NOT TO BE USED FOR ANY OTHER PURPOSE.
 THE PLAN IS NOT TO BE USED FOR ANY OTHER PURPOSE.

This plan/document relates to:
 Development Application
 No. 130065

This plan/document relates to:
 Development Application
 No. 111088

DIAGRAM - 1:1500 @ A1

Scale	1:1500	SHEET	OF 1
Drawn	GIS		
Checked	JAN		
Calculated	26/09/11	Job No	000
Revised/Amended	05/09/11	Drawn	000
Project File Path	00-000-0000A	Draw	000



1:1500



Tree Significance

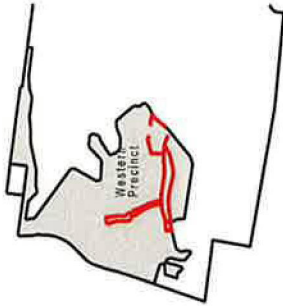
- AA - high ecological/high landscape
AB - high ecological/moderate landscape
BB - moderate ecological/moderate landscape
BC - moderate ecological/low landscape
CC - low ecological/low landscape

[illegible]

NOTES

-
- The diagram shows a vertical rectangle on the left divided into a red top half and a white bottom half, labeled "DA Boundary". To the right, two sets of Venn diagrams are shown. The top set, labeled "Tree to be Retained", consists of three overlapping circles: a green one on the left, a blue one on the right, and a yellow one at the bottom. The bottom set, labeled "Tree to be Removed", consists of three overlapping circles: a red one on the left, a blue one on the right, and a yellow one at the bottom. The red circle in the bottom set overlaps with the red portion of the DA Boundary.

All Trees to be Removed unless otherwise shown



KEY PLAN

Developer

Project



JORDAN SPRINGS

Drawing Title
Riparian Corridor DA
(N/S)

Tree Plan

COOL AT A2

Drawn by

Drawing Number	WP OA RiparianS TRP
----------------	---------------------

Drawing Number

Issue A





KEY PLAN

Issue	Amendment	Date
A	Council Lodgement	11.01.13

NOTES

- DA Boundary
- Tree to be Retained
- Tree to be Removed
- Retain & Relocate tree

All Trees to be Removed unless otherwise shown



- Tree Significance
- AA - high ecological/high landscape
 - AB - high ecological/moderate landscape
 - BB - moderate ecological/moderate landscape
 - BC - moderate ecological/low landscape
 - CC - low ecological/low landscape

Developer

Lend Lease

Ropes Crossing Boulevard,
Ropes Crossing NSW 2760
p.02 9673 8800 f.02 9673 8888
ABN 95 000 966 965

Development Manager: Lend Lease Development Pty Ltd

Project

JORDANSPRINGS

Drawing Title

Riparian Corridor (E/W)

Tree Plan

Scale AT A3 1:3000

Drawn by RAS

Drawing Number WP OA RiparianEW TRP

Issue A





TREE TAG NO.	SPECIES	TO BE RETAINED	TRUNK DIA.	CANOPY SPREAD	TREE HEIGHT	NO OF TRUNKS	1. Ecological Significance			2. Landscape Significance			3. Comments	DA STAGE
							A. High	B. Mod.	C. Low	A. High	B. Mod.	C. Low		
820	Phoenix canariensis	YES	0.80	16	8		Y			Y			Retain & relocate	Rip
821	Angophora floribunda	NO	1.10	20	20		Y			Y			Impacts from earthworks for future Detention Basin	Rip
822	Angophora floribunda	NO	0.90	18	18		Y			Y			Impacts from earthworks for future Detention Basin	Rip
823	Angophora floribunda	NO	1.00	20	20		Y			Y			Impacts from earthworks for future Detention Basin	Rip
824	Eucalyptus molucanna	NO	1.00	20	22		Y				Y		Impacts from earthworks for future Detention Basin	Rip
825	DEAD	NO	0.90	20	24									Rip
888	Eucalyptus tereticornis	NO	1.10	8	18		Y			Y			Impacts from earthworks for adjacent development site	Rip
889	Angophora floribunda	NO	0.50	10	16		Y			Y			Impacts from earthworks for adjacent development site	Rip
890	Eucalyptus molucanna	NO	0.90	16	22		Y			Y			Impacts from earthworks for adjacent development site	Rip
891	Angophora floribunda	NO	0.50	14	18		Y			Y			Impacts from earthworks for adjacent development site	Rip
892	Eucalyptus tereticornis	NO	0.90	16	16		Y			Y			Impacts from earthworks for adjacent development site	Rip
893	Angophora floribunda	NO	1.10	20	24		Y				Y		Impacts from earthworks for adjacent development site	Rip
894	Eucalyptus tereticornis	NO	0.60	18	22		Y			Y			Impacts from earthworks for adjacent development site	Rip
895	Eucalyptus crebra	NO	0.3 & 0.3	12	20		Y			Y			Impacts from earthworks for adjacent development site	Rip
896	Eucalyptus tereticornis	NO	0.50	20	24		Y				Y		Impacts from earthworks for adjacent development site	Rip
897	DEAD	NO	0.40	12	18								Impacts from earthworks for adjacent development site	Rip
898	DEAD	NO	0.70	20	24								Impacts from earthworks for adjacent development site	Rip
899	Eucalyptus tereticornis	NO	0.80	18	24			Y			Y		Impacts from earthworks for adjacent development site	Rip
900	Eucalyptus tereticornis	NO	0.60	16	22		Y				Y		Impacts from earthworks for adjacent development site	Rip
901	Eucalyptus crebra	NO	0.60	10	18		Y			Y			Impacts from earthworks for adjacent development site	Rip
902	Eucalyptus tereticornis	NO	1.00	20	26		Y			Y			Impacts from earthworks for adjacent development site	Rip
903	Eucalyptus tereticornis	NO	1.00	20	26		Y			Y			Impacts from earthworks for adjacent development site	Rip
904	Eucalyptus tereticornis	NO	1.20	24	26		Y			Y			Impacts from earthworks for adjacent development site	Rip
905	Eucalyptus tereticornis	NO	1.00	20	24		Y			Y			Impacts from earthworks for adjacent development site	Rip
906	Eucalyptus tereticornis	NO	1.20	24	26		Y				Y		Impacts from earthworks for adjacent development site	Rip
907	Eucalyptus tereticornis	NO	1.30	24	26		Y				Y		Impacts from earthworks for future Detention Basin	Rip
908	Eucalyptus crebra	NO	1.10	20	26			Y			Y		Impacts from earthworks for future Detention Basin	Rip
909	Eucalyptus crebra	NO	0.90	18	26			Y			Y		Impacts from earthworks for future Detention Basin	Rip
910	Eucalyptus crebra	NO	0.80	16	24								Impacts from earthworks for future Detention Basin	Rip
911	Eucalyptus crebra	NO	0.50	10	18								Impacts from earthworks for future Detention Basin	Rip
912	Eucalyptus tereticornis	NO	1.00	24	21		Y			Y			Impacts from earthworks for future Detention Basin	Rip
913	Eucalyptus eugenoides	NO	0.50	18	18				Y			Y	Impacts from earthworks for future Detention Basin	Rip
914	Eucalyptus molucanna	NO	0.60	16	18		Y			Y			Impacts from earthworks for future Detention Basin	Rip
915	Eucalyptus molucanna	NO	0.90	20	20		Y			Y			Impacts from earthworks for future Detention Basin	Rip
916	Eucalyptus molucanna	NO	0.90	20	22		Y			Y			Impacts from earthworks for future Detention Basin	Rip
925	Phoenix canariensis	YES	0.80	10	11		Y			Y			Retain & relocate	Rip
1972	Eucalyptus tereticornis	YES	0.90	12	20			Y			Y			Rip
1973	Eucalyptus tereticornis	NO	0.90	16	23			Y			Y		Impacts from earthworks for adjacent development site	Rip
1974	Eucalyptus molucanna	NO	0.40	16	19			Y			Y		Impacts from earthworks for adjacent development site	Rip
1977	Eucalyptus crebra	NO	0.60	8	19		Y			Y			Impacts from earthworks for adjacent development site	Rip
1978	Melaleuca decora	YES	0.80	8	22			Y			Y			Rip
2004	Eucalyptus tereticornis	NO	0.60	10	23		Y			Y			Impacts from earthworks for adjacent development site	Rip
2264	Eucalyptus molucanna	NO	0.50	8	22		Y				Y		Impacts from earthworks for future Detention Basin	Rip
2265	Eucalyptus molucanna	NO	0.50	16	22		Y			Y			Impacts from earthworks for future Detention Basin	Rip
2266	Eucalyptus molucanna	NO	0.40	8	16		Y			Y			Impacts from earthworks for future Detention Basin	Rip
2267	Eucalyptus molucanna	NO	0.30	4	10		Y			Y			Impacts from earthworks for future Detention Basin	Rip
2268	Angophora floribunda	NO	0.70	18	23		Y			Y			Impacts from earthworks for future Detention Basin	Rip
2269	Eucalyptus crebra	NO	0.30	8	12		Y				Y		Impacts from earthworks for future Detention Basin	Rip
2270	Eucalyptus crebra	NO	0.60	20	22		Y			Y			Impacts from earthworks for future Detention Basin	Rip
2271	Eucalyptus molucanna	NO	0.70	18	22		Y			Y			Impacts from earthworks for future Detention Basin	Rip
2272	Eucalyptus molucanna	NO	0.70	20	22		Y			Y			Impacts from earthworks for future Detention Basin	Rip
2273	Angophora floribunda	NO	0.40	14	20		Y				Y		Impacts from earthworks for future Detention Basin	Rip
2274	Alocasaurina	NO	0.40	12	19		Y				Y		Impacts from earthworks for future Detention Basin	Rip
2275	Eucalyptus tereticornis	NO	0.30	8	18		Y				Y		Impacts from earthworks for future Detention Basin	Rip

2279	Angophora floribunda	NO	0.40	10	20			Y			Y		Impacts from earthworks for future Detention Basin	Rip
2280	Allocasaurina cunninghamiana	NO	0.20	6	13			Y				Y	Impacts from earthworks for future Detention Basin	Rip
2327	Eucalyptus meliodora	NO	0.80	12	18		Y			Y			Impacts from earthworks for future Detention Basin	Rip
2502	Eucalyptus tereticornis	NO	0.80	9	12			Y			Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2509	Eucalyptus tereticornis	YES	0.7 & 0.5	15	25		Y			Y				Rip
2510	Eucalyptus tereticornis	NO	0.30	4	15		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2511	Eucalyptus molucanna	NO	0.40	7	20			Y			Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2513	Eucalyptus molucanna	NO	0.70	15	30		Y			Y			Impacts from earthworks for Riparian Corridor channel construction	Rip
2514	Eucalyptus fibrosa	YES	0.60	15	25		Y			Y				Rip
2515	Eucalyptus fibrosa	YES	0.50	7	25		Y			Y				Rip
2516	DEAD	NO	0.50	8	30									Rip
2517	Eucalyptus tereticornis	YES	0.60	15	30		Y				Y			Rip
2518	Eucalyptus molucanna	NO	0.50	8	25		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2519	Eucalyptus eugenoides	NO	0.60	10	20		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2520	Eucalyptus molucanna	NO	0.60	8	25		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2521	Eucalyptus molucanna	NO	0.5 & 0.5	15	20		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2522	Eucalyptus molucanna	NO	1.00	20	30		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2523	DEAD	NO	1.00	15	25									Rip
2524	Eucalyptus tereticornis	NO	0.40	5	25		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2525	Eucalyptus tereticornis	NO	0.80	7	25		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2526	Eucalyptus tereticornis	NO	0.50	7	25		Y			Y			Impacts from earthworks for Riparian Corridor channel construction	Rip
2527	Eucalyptus tereticornis	NO	0.70	10	25		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2528	DEAD	NO	0.60	8	30									Rip
2529	Eucalyptus tereticornis	NO	0.40	7	20		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2530	Eucalyptus molucanna	NO	0.40	7	24		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2531	Eucalyptus molucanna	NO	0.40	6	25		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2532	Eucalyptus eugenoides	NO	0.60	15	25		Y			Y			Impacts from earthworks for Riparian Corridor channel construction	Rip
2533	Eucalyptus molucanna	NO	0.40	7	20		Y			Y			Impacts from earthworks for Riparian Corridor channel construction	Rip
2534	Eucalyptus molucanna	NO	0.30	5	20		Y			Y			Impacts from earthworks for Riparian Corridor channel construction	Rip
2535	Eucalyptus tereticornis	NO	0.50	7	25		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2536	Eucalyptus molucanna	NO	1.00	10	30		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
2537	Eucalyptus tereticornis	NO	0.60	10	25		Y			Y			Impacts from earthworks for Riparian Corridor channel construction	Rip
2538	Eucalyptus tereticornis	YES	0.5 & 0.5	10	30		Y			Y				Rip
2539	Eucalyptus tereticornis	YES	0.50	8	25		Y			Y				Rip
2540	Eucalyptus eugenoides	YES	0.70	12	25		Y			Y				Rip
2541	Eucalyptus eugenoides	YES	0.50	10	25		Y			Y				Rip
2542	Eucalyptus tereticornis	YES	0.60	10	25		Y			Y				Rip
2543	Angophora floribunda	YES	0.40	5	20		Y			Y				Rip
2544	DEAD	YES	0.30	6	15									Rip
2545	Eucalyptus eugenoides	YES	0.50	10	25		Y				Y			Rip
2546	DEAD	NO	0.50	7	25		Y				Y			Rip
2547	Eucalyptus tereticornis	NO	0.30	7	25			Y				Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
2548	Eucalyptus tereticornis	NO	0.60	10	30			Y				Y	Impacts from earthworks for Riparian Corridor channel construction	Rip

Thinning of Detention Basins
 0.85
 0.85

3047	Eucalyptus tereticornis	NO	0.70	6	16		Y			Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
3048	Eucalyptus tereticornis	NO	0.60	10	16	Y			Y			Impacts from earthworks for Riparian Corridor channel construction	Rip
3120	Eucalyptus eugenoides	NO	0.70	16	22		Y			Y		Impacts from earthworks for future Detention Basin	Rip
3121	Angophora floribunda	NO	0.70	20	24		Y			Y		Impacts from earthworks for future Detention Basin	Rip
3122	Angophora floribunda	NO	0.70	22	24		Y			Y		Impacts from earthworks for future Detention Basin	Rip
3123	Eucalyptus eugenoides	NO	0.80	20	24	Y			Y			Impacts from earthworks for future Detention Basin	Rip
3124	Eucalyptus tereticornis	NO	0.60	20	24	Y				Y		Impacts from earthworks for future Detention Basin	Rip
3125	Eucalyptus tereticornis	NO	0.50	18	24	Y				Y		Impacts from earthworks for future Detention Basin	Rip
3126	Eucalyptus molucanna	NO	0.60	16	24	Y				Y		Impacts from earthworks for future Detention Basin	Rip
3127	Eucalyptus molucanna	NO	0.40	12	25	Y				Y		Impacts from earthworks for future Detention Basin	Rip
3128	Eucalyptus molucanna	NO	0.20	12	24	Y				Y		Impacts from earthworks for future Detention Basin	Rip
3129	Eucalyptus molucanna	NO	0.30	10	23	Y				Y		Impacts from earthworks for future Detention Basin	Rip
3130	Eucalyptus molucanna	NO	0.30	20	24	Y				Y		Impacts from earthworks for future Detention Basin	Rip
3131	Eucalyptus molucanna	NO	0.40	12	25	Y			Y			Impacts from earthworks for future Detention Basin	Rip
3132	Eucalyptus tereticornis	NO	0.60	20	24	Y			Y			Impacts from earthworks for future Detention Basin	Rip
3133	Eucalyptus tereticornis	NO	0.90	20	23		Y			Y		Impacts from earthworks for future Detention Basin	Rip
3917	Eucalyptus tereticornis	NO	0.80	20	25		Y			Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
3918	Eucalyptus molucanna	NO	0.60	20	25	Y			Y			Impacts from earthworks for adjacent development site	Rip
3919	Eucalyptus tereticornis	YES	0.60	20	20	Y			Y				Rip
3920	Eucalyptus molucanna	NO	0.60	15	20			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
3921	Eucalyptus tereticornis		0.60	15	20			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
3932	Eucalyptus tereticornis	NO	0.50	10	15	Y			Y			Impacts from earthworks for Riparian Corridor channel construction	Rip
3933	Eucalyptus molucanna	NO	0.40	10	10			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
3934	Eucalyptus molucanna	YES	0.70	20	20	Y			Y				Rip
3935	Angophora floribunda	YES	0.60	20	20	Y				Y			Rip
3936	Angophora floribunda	YES	0.40	10	20	Y				Y			Rip
3937	Angophora floribunda	YES	0.30	10	20	Y				Y			Rip
3938	Eucalyptus molucanna	YES	0.30	6	10	Y				Y			Rip
3939	Eucalyptus molucanna	NO	0.30	6	6		Y			Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
3940	Eucalyptus molucanna	NO	0.30	6	10	Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
3942	Eucalyptus molucanna	NO	0.40	8	8	Y			Y			Impacts from earthworks for Riparian Corridor channel construction	Rip
3943	Eucalyptus molucanna	NO	1.20	20	20	Y			Y			Impacts from earthworks for Riparian Corridor channel construction	Rip
3944	Eucalyptus molucanna	NO	0.80	20	19	Y			Y			Impacts from earthworks for Riparian Corridor channel construction	Rip
4169	Angophora floribunda	NO	0.20	6	14		Y			Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
4171	Eucalyptus tereticornis	NO	0.40	8	14							Impacts from earthworks for Riparian Corridor channel construction	Rip
4172	Eucalyptus fibrosa	NO	0.80	12	16	Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
4173	Eucalyptus fibrosa	NO	0.30	10	16	Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
4174	Eucalyptus fibrosa	NO	0.35	11	16	Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
4175	Angophora floribunda	NO	0.20	4	9	Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
4243	Eucalyptus tereticornis	NO	0.40	5	20		Y			Y		Impacts from earthworks for adjacent development site	Rip
4244	Eucalyptus tereticornis	NO	0.40	4	20		Y				Y	Impacts from earthworks for adjacent development site	Rip
4245	Angophora floribunda	NO	0.40	5	20		Y			Y		Impacts from earthworks for adjacent development site	Rip
4371	Eucalyptus tereticornis	NO	0.50	7	18		Y			Y		Impacts from earthworks for adjacent development site	Rip
4372	Eucalyptus tereticornis	NO	0.60	7	18		Y			Y		Impacts from earthworks for adjacent development site	Rip
4373	Eucalyptus tereticornis	NO	0.40	6	18		Y			Y		Impacts from earthworks for adjacent development site	Rip
4374	Eucalyptus tereticornis	NO	0.60	8	20		Y			Y		Impacts from earthworks for adjacent development site	Rip
4375	Eucalyptus molucanna	NO	0.60	10	20		Y			Y		Impacts from earthworks for adjacent development site	Rip
4377	Eucalyptus molucanna	NO	0.40	7	20		Y			Y		Impacts from earthworks for adjacent development site	Rip



4426	Eucalyptus tereticornis	NO	0.70	14	19		Y				Y			Rip
9812	Eucalyptus tereticornis	YES	0.40	6	11			Y			Y			Rip
9813	Eucalyptus tereticornis	YES	0.30	5	9	3		Y			Y			Rip
9814	Eucalyptus tereticornis	YES	0.40	6	8	2		Y			Y			Rip
9815	Eucalyptus tereticornis	YES	0.25	4	8	3		Y			Y			Rip
9816	Eucalyptus tereticornis	YES	0.50	7	10	2		Y			Y			Rip
9817	Eucalyptus tereticornis	YES	0.35	4	8	2		Y			Y			Rip
9818	Eucalyptus tereticornis	YES	0.35	3	7			Y			Y			Rip
9819	Eucalyptus tereticornis	YES	0.25	4	8			Y			Y			Rip
9820	Eucalyptus tereticornis	YES	0.30	4	9			Y			Y			Rip
9821	Eucalyptus tereticornis	YES	0.30	5	8	2		Y			Y			Rip
9822	Eucalyptus tereticornis	YES	0.40	4	8	3		Y			Y			Rip
9823	Eucalyptus tereticornis	YES	0.40	5	9	3		Y			Y			Rip
9824	Eucalyptus tereticornis	NO	0.40	4	9	2		Y			Y		Impacts from earthworks for adjacent development site	Rip
9826	Angophora floribunda	NO	0.25	5	11				Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9827	Angophora floribunda	NO	0.25	5	13				Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9828	Angophora floribunda	NO	0.30	6	11				Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9829	Angophora floribunda	NO	0.25	5	11				Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9830	Angophora floribunda	NO	0.20	5	10				Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9831	Angophora floribunda	NO	0.25	3	6	2			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9832	Angophora floribunda	NO	0.40	5	11	2			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9833	Angophora floribunda	NO	0.40	6	8				Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9834	Angophora floribunda	NO	0.25	6	13				Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9835	Angophora floribunda	NO	0.30	6	12				Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9836	Angophora floribunda	NO	0.20	5	12				Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9837	Angophora floribunda	NO	0.30	6	12				Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9910	Eucalyptus tereticornis	NO	0.60	5	16		Y				Y		Impacts from earthworks for adjacent development site	Rip
9911	Eucalyptus tereticornis	NO	0.25	8	15		Y				Y		Impacts from earthworks for adjacent development site	Rip
9912	Eucalyptus molucana	NO	0.25	9	15		Y				Y		Impacts from earthworks for adjacent development site	Rip
9913	Eucalyptus tereticornis	NO	0.30	8	15		Y				Y		Impacts from earthworks for adjacent development site	Rip
9914	Eucalyptus molucana	NO	0.40	10	18		Y			Y			Impacts from earthworks for adjacent development site	Rip
9915	Angophora floribunda	NO	0.50	12	24			Y				Y	Impacts from earthworks for future Detention Basin	Rip
9916	Angophora floribunda	NO	0.40	10	24			Y				Y	Impacts from earthworks for future Detention Basin	Rip
9917	Eucalyptus tereticornis	NO	0.35	10	18		Y				Y		Impacts from earthworks for future Detention Basin	Rip
9918	Eucalyptus tereticornis	NO	0.35	10	20		Y				Y		Impacts from earthworks for future Detention Basin	Rip
9919	Eucalyptus tereticornis	NO	0.35	6	22		Y				Y		Impacts from earthworks for future Detention Basin	Rip
9920	Eucalyptus tereticornis	NO	0.40	10	24		Y			Y			Impacts from earthworks for future Detention Basin	Rip
9921	Eucalyptus tereticornis	NO	0.30	6	13		Y				Y		Impacts from earthworks for future Detention Basin	Rip
9922	Eucalyptus molucana	NO	0.20	5	12		Y				Y		Impacts from earthworks for future Detention Basin	Rip
9923	Eucalyptus molucana	NO	0.30	6	16		Y				Y		Impacts from earthworks for future Detention Basin	Rip
9924	Angophora floribunda	NO	0.30	8	17		Y				Y		Impacts from earthworks for future Detention Basin	Rip
9974	Callistamon salignus	NO	0.40	7	8			Y			Y		Impacts from earthworks for adjacent development site	Rip
9975	Angophora floribunda	NO	0.40	8	8			Y			Y		Impacts from earthworks for adjacent development site	Rip
9976	Angophora floribunda	NO	0.25	10	12			Y			Y		Impacts from earthworks for adjacent development site	Rip
9977	Eucalyptus tereticornis	NO	0.25	4	10			Y				Y	Impacts from earthworks for adjacent development site	Rip
9978	Angophora floribunda	NO	0.35	7	15			Y			Y		Impacts from earthworks for adjacent development site	Rip
9979	Angophora floribunda	NO	0.25	8	12			Y				Y	Impacts from earthworks for adjacent development site	Rip
9980	Angophora floribunda	NO	0.25	8	14			Y			Y		Impacts from earthworks for adjacent development site	Rip
9981	Eucalyptus tereticornis	NO	0.50	20	26		Y			Y			Impacts from earthworks for adjacent development site	Rip
9982	Eucalyptus tereticornis	NO	0.25	6	15			Y			Y		Impacts from earthworks for adjacent development site	Rip
9983	Angophora floribunda	NO	0.30	7	11			Y			Y		Impacts from earthworks for Riparian Corridor channel construction	Rip

No. 130065

9984	Angophora floribunda	NO	0.20	6	9			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9985	Eucalyptus tereticornis	NO	0.30	10	18			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9986	Eucalyptus tereticornis	NO	0.35	10	20			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9987	Eucalyptus molucanna	NO	0.25	8	15		Y				Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9988	Angophora floribunda	NO	0.20	6	10		Y				Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9989	Eucalyptus molucanna	NO	0.30	8	12		Y				Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9990	Eucalyptus molucanna	NO	0.20	5	11		Y				Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9991	Angophora floribunda	NO	0.25	6	11		Y				Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
9999	Eucalyptus tereticornis	YES	0.20	5	11	2		Y			Y		Rip
10000	Eucalyptus molucanna	YES	0.40	8	13			Y			Y		Rip
10001	Eucalyptus tereticornis	YES	0.20	6	11		Y				Y		Rip
10002	Eucalyptus molucanna	YES	0.25	6	10		Y				Y		Rip
10003	Angophora floribunda	YES	0.25	7	12		Y				Y		Rip
10004	Eucalyptus molucanna	YES	0.30	8	14		Y				Y		Rip
10005	Eucalyptus molucanna	YES	0.20	6	14		Y				Y		Rip
10006	Eucalyptus tereticornis	YES	0.20	5	12			Y			Y		Rip
10007	Angophora floribunda	YES	0.25	7	14		Y				Y		Rip
10008	Eucalyptus molucanna	YES	0.20	8	11			Y			Y		Rip
10009	Eucalyptus molucanna	YES	0.35	10	14		Y				Y		Rip
10010	Eucalyptus molucanna	YES	0.35	10	15		Y				Y		Rip
10011	Eucalyptus molucanna	YES	0.40	10	18		Y				Y		Rip
10012	Eucalyptus fibrosa	YES	0.35	10	14	3	Y				Y		Rip
10018	Angophora floribunda	YES	0.35	5	10			Y			Y		Rip
10019	Angophora floribunda	YES	0.40	8	11			Y			Y		Rip
10020	Angophora floribunda	NO	0.30	7	9			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10021	Angophora floribunda	NO	0.30	6	8	2						Impacts from earthworks for Riparian Corridor channel construction	Rip
10022	Eucalyptus molucanna	YES	0.40	8	11	3	Y				Y		Rip
10023	Angophora floribunda	NO	0.80	7	7			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10025		YES	0.20	5	8								Rip
10026	Angophora floribunda	YES	0.30	5	9								Rip
10027	Angophora floribunda	YES	0.35	6	9			Y			Y		Rip
10028	Angophora floribunda	NO	0.25	4	7			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10029	Angophora floribunda	NO	0.25	4	8	2		Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10030	Angophora floribunda	NO	0.40	5	8			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10031	Angophora floribunda	NO	0.40	10	12							Impacts from earthworks for Riparian Corridor channel construction	Rip
10032	Angophora floribunda	NO	0.40	12	12	2		Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10033	Angophora floribunda	NO	0.40	6	9			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10034	Angophora floribunda	NO	0.20	5	8			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10035	Eucalyptus molucanna	NO	0.40	10	12			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10036	Angophora floribunda	NO	0.30	8	15			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10037	Angophora floribunda	NO	0.30	10	12	2		Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10038	Eucalyptus molucanna	NO	0.50	5	10	2		Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10039	Eucalyptus molucanna	NO	0.35	6	9			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip
10040	Angophora floribunda	NO	0.30	8	11			Y			Y	Impacts from earthworks for Riparian Corridor channel construction	Rip

This is a copy of the original document.
 No. 130033

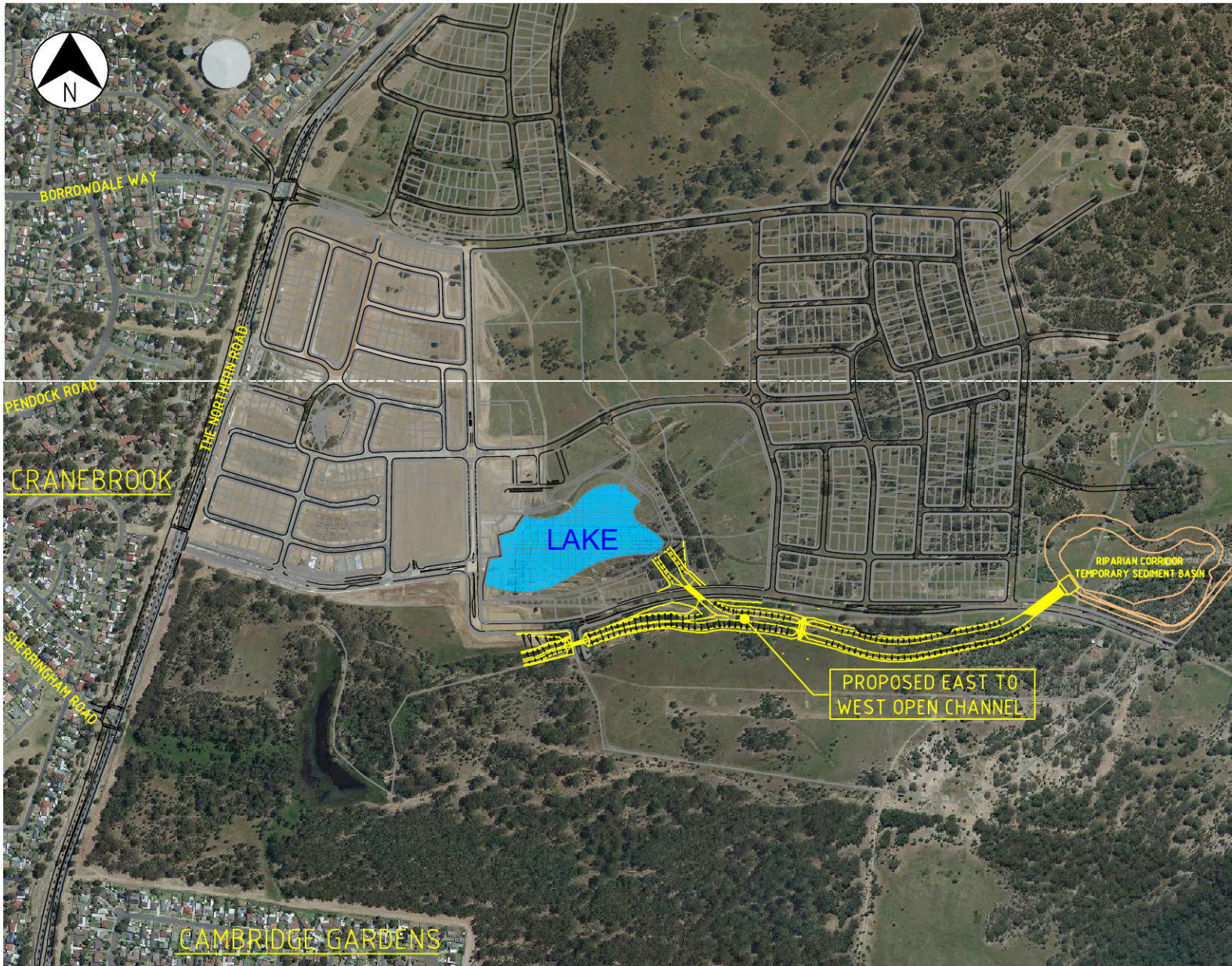
10041	Eucalyptus tereticornis	NO	0.40	15	15		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
10042	Eucalyptus molucanna	NO	0.25	6	9			Y			Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
10043	Eucalyptus molucanna	NO	0.25	6	15	2		Y			Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
10044	Eucalyptus molucanna	NO	0.30	6	11			Y			Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
10047	Alocasaurina	YES	0.40	8	13	3	Y				Y			Rip
10048	Eucalyptus tereticornis	NO	0.90	10	15		Y				Y		Impacts from earthworks for Riparian Corridor channel construction	Rip
10051		NO	0.25	7	9				Y			Y	Impacts from earthworks for adjacent development site	Rip
10052		NO	0.20	5	9								Impacts from earthworks for Riparian Corridor channel construction	Rip
10239	Angophora floribunda	NO	0.25	8	3			Y			Y		Impacts from earthworks for adjacent development site	Rip
10240	Angophora floribunda	NO	0.20	3	8			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10241	Angophora floribunda	NO	0.20	3	10			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10242	Eucalyptus crebra	NO	0.25	3	10			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10243	Eucalyptus tereticornis	NO	0.30	4	12		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10244	Eucalyptus tereticornis	NO	0.30	4	12		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10245	Angophora floribunda	NO	0.30	5	14		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10246	Eucalyptus tereticornis	NO	0.40	6	15		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10247	Angophora floribunda	NO	0.25	6	11		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10248	Angophora floribunda	NO	0.20	5	11	4	Y				Y		Impacts from earthworks for adjacent development site	Rip
10249	Angophora floribunda	NO	0.20	7	10			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10250	Eucalyptus molucanna	NO	0.30	8	11		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10251	Eucalyptus tereticornis	NO	0.60	12	18		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10252	Angophora floribunda	NO	0.20	7	9			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10253	Angophora floribunda	NO	0.20	6	10			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10254	Eucalyptus tereticornis	NO	0.25	7	11			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10255	Angophora floribunda	NO	0.25	7	11			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10256	Angophora floribunda	NO	0.30	8	13		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10257	Eucalyptus tereticornis	NO	0.30	7	10		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10258	Angophora floribunda	NO	0.20	5	10			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10259	Eucalyptus tereticornis	NO	0.30	8	10		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10260	Eucalyptus tereticornis	NO	0.30	7	13	2	Y				Y		Impacts from earthworks for future Detention Basin	Rip
10261	Eucalyptus tereticornis	NO	2.50	7	10			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10262	Angophora floribunda	NO	0.20	6	13			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10263	Eucalyptus tereticornis	NO	0.40	6	16			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10264	Eucalyptus tereticornis	NO	0.30	8	16		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10265	Angophora floribunda	NO	0.35	9	18		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10266	Angophora floribunda	NO	0.20	7	13	2	Y				Y		Impacts from earthworks for future Detention Basin	Rip
10267	Melaleuca decora	NO	0.70	9	13		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10268	Eucalyptus tereticornis	NO	0.40	7	8	2	Y			Y			Impacts from earthworks for future Detention Basin	Rip
10269	Angophora floribunda	NO	0.50	6	11		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10270	Angophora floribunda	NO	0.35	8	12		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10378	Allocasuarina cunninghamiana	NO	0.40	8	18			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10379	Allocasuarina cunninghamiana	NO	0.30	7	18			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10380	Allocasuarina cunninghamiana	NO	0.35	8	15			Y			Y		Impacts from earthworks for future Detention Basin	Rip
10431	Angophora floribunda	NO	0.20	6	13		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10432	Eucalyptus tereticornis	NO	0.20	5	11		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10433	Eucalyptus molucanna	NO	0.20	5	11		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10434	Eucalyptus molucanna	NO	0.20	6	12		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10435	Eucalyptus molucanna	NO	0.25	5	8			Y				Y	Impacts from earthworks for future Detention Basin	Rip
10436	Eucalyptus molucanna	NO	0.25	7	12		Y				Y		Impacts from earthworks for future Detention Basin	Rip
10437	Angophora floribunda	NO	0.25	8	13	2	Y				Y		Impacts from earthworks for future Detention Basin	Rip
10438	Eucalyptus molucanna	NO	0.40	6	10			Y				Y	Impacts from earthworks for future Detention Basin	Rip
10439	Eucalyptus tereticornis	NO	0.20	6	9			Y			Y		Impacts from earthworks for future Detention Basin	Rip

No. 130065
 13/03/2014
 13/03/2014
 13/03/2014



Lend Lease

JORDAN SPRINGS EAST TO WEST OPEN CHANNEL



DRAWING INDEX

DRAWING No	DRAWING TITLE
EN02754-C-601	COVER SHEET AND DRAWING INDEX
EN02754-C-601.1	GENERAL ARRANGEMENT PLAN
EN02754-C-602	GENERAL NOTES
EN02754-C-610	OPEN CHANNEL LAYOUT PLAN - SHEET 1 OF 4
EN02754-C-611	OPEN CHANNEL LAYOUT PLAN - SHEET 2 OF 4
EN02754-C-612	OPEN CHANNEL LAYOUT PLAN - SHEET 3 OF 4
EN02754-C-613	OPEN CHANNEL LAYOUT PLAN - SHEET 4 OF 4
EN02754-C-625	OPEN CHANNEL SETOUT TABLE
EN02754-C-631	LONGITUDINAL SECTIONS MC01 - SHEET 1 OF 3
EN02754-C-632	LONGITUDINAL SECTIONS MC01 - SHEET 2 OF 3
EN02754-C-633	LONGITUDINAL SECTIONS MC01 - SHEET 3 OF 3
EN02754-C-634	LONGITUDINAL SECTIONS MC02 - SHEET 1 OF 1
EN02754-C-651	CROSS SECTIONS MC01 - SHEET 1 OF 8
EN02754-C-652	CROSS SECTIONS MC01 - SHEET 2 OF 8
EN02754-C-653	CROSS SECTIONS MC01 - SHEET 3 OF 8
EN02754-C-654	CROSS SECTIONS MC01 - SHEET 4 OF 8
EN02754-C-655	CROSS SECTIONS MC01 - SHEET 5 OF 8
EN02754-C-656	CROSS SECTIONS MC01 - SHEET 6 OF 8
EN02754-C-657	CROSS SECTIONS MC01 - SHEET 7 OF 8

SCALE 1:5000 (A1) 50 0 50 100 150 200 250
SCALE 1:10000 (A3)

6	20.01.14	LB	JH	JC	JW	ISSUED FOR C.C.
5	09.12.13	LB	JH	JC	JW	ISSUED FOR C.C.
4	23.10.13	LB	JH	JC	JW	ISSUED FOR C.C. FOR LEND LEASE COMMENTS
3	05.12.12	LB	JH	JC	JW	D.A. ISSUE
2	27.11.12	SM	JH	JC	JW	AMENDED BOX CULVERT LOCATIONS FOR DA ISSUE
No	DATE	DRAFTING	DESIGN	REV'D	APP'D	AMENDMENT
		CHECK	REVIEW	P.MGR	P.DIR	

Copyright

The concepts and information contained in this document are the intellectual property of Sinclair Knight Merz. Use or copying of the document in whole or in part without the written permission of Sinclair Knight Merz constitutes an infringement of copyright.

A.C.N 001 024 098

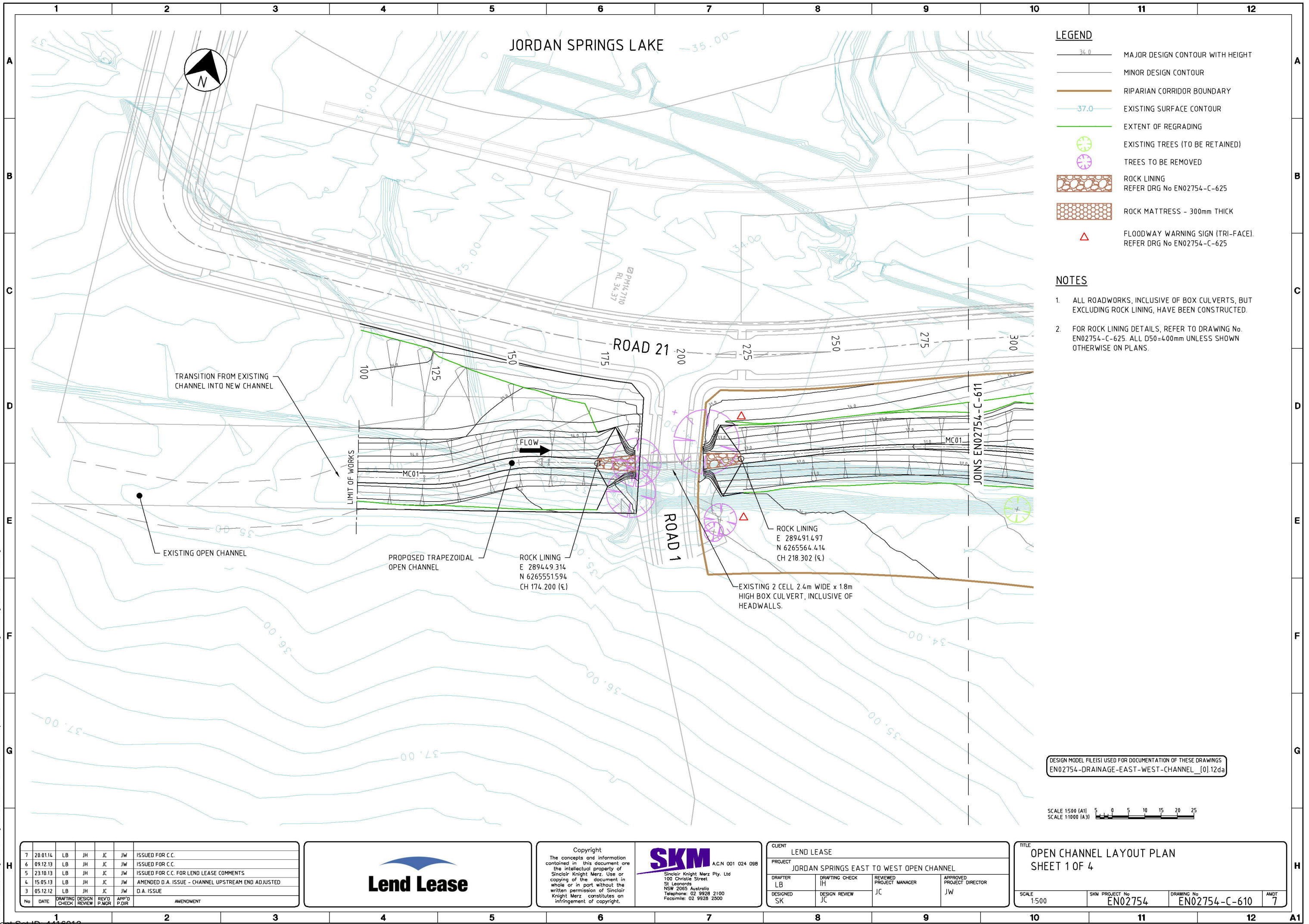
Sinclair Knight Merz Pty. Ltd
100 Christie Street
St Leonards
NSW 2055 Australia
Telephone: 02 9928 2100
Facsimile: 02 9928 2500

CLIENT LEND LEASE			
PROJECT JORDAN SPRINGS EAST TO WEST OPEN CHANNEL			
DRAFTER LB	DRAFTING CHECK IH	REVIEWED PROJECT MANAGER JC	APPROVED PROJECT DIRECTOR JW
DESIGNED SK	DESIGN REVIEW JC		

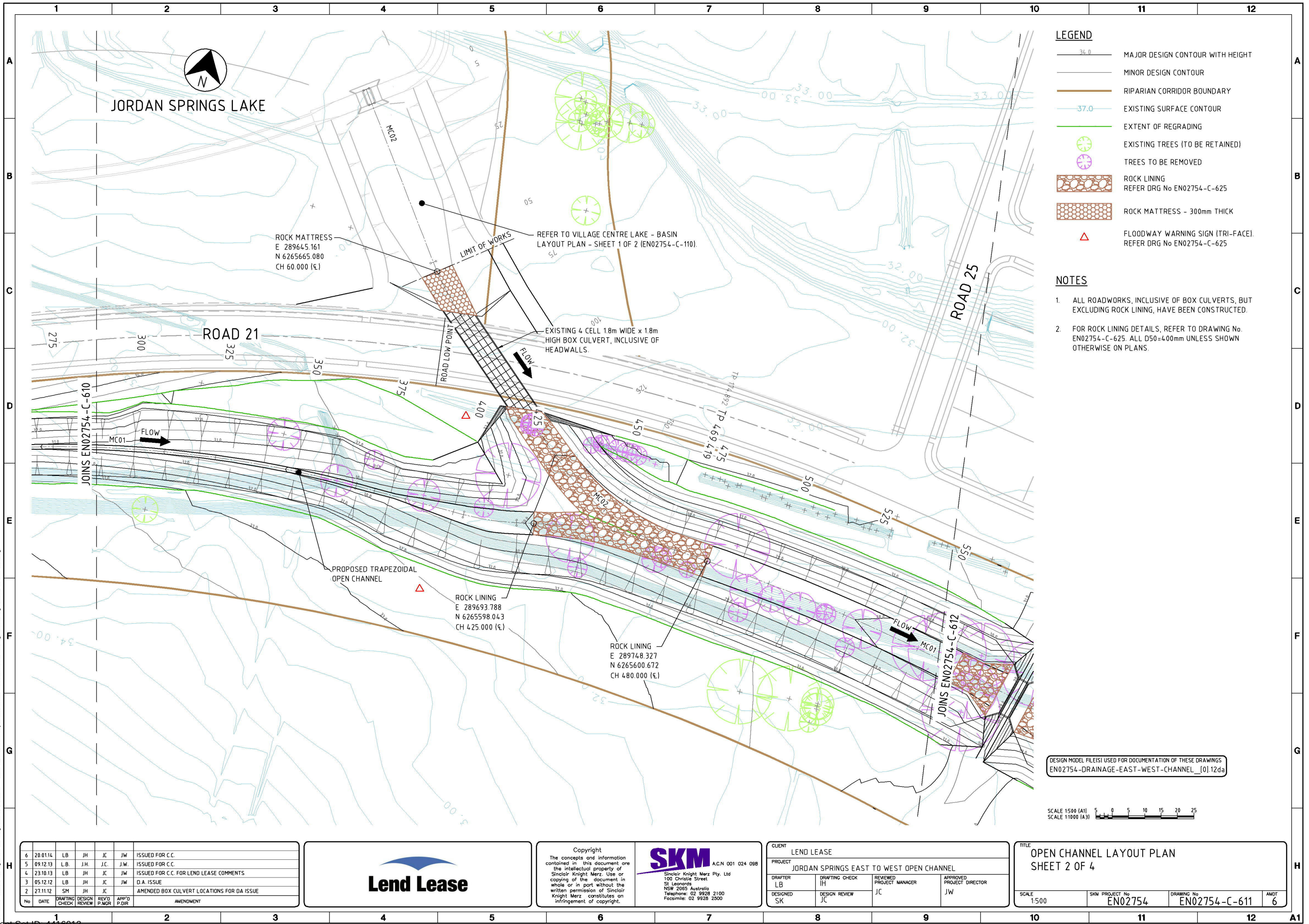
TITLE COVER SHEET AND DRAWING INDEX			
SCALE 1:5000	SKM PROJECT No EN02754	DRAWING No EN02754-C-601	AMDT 6

<

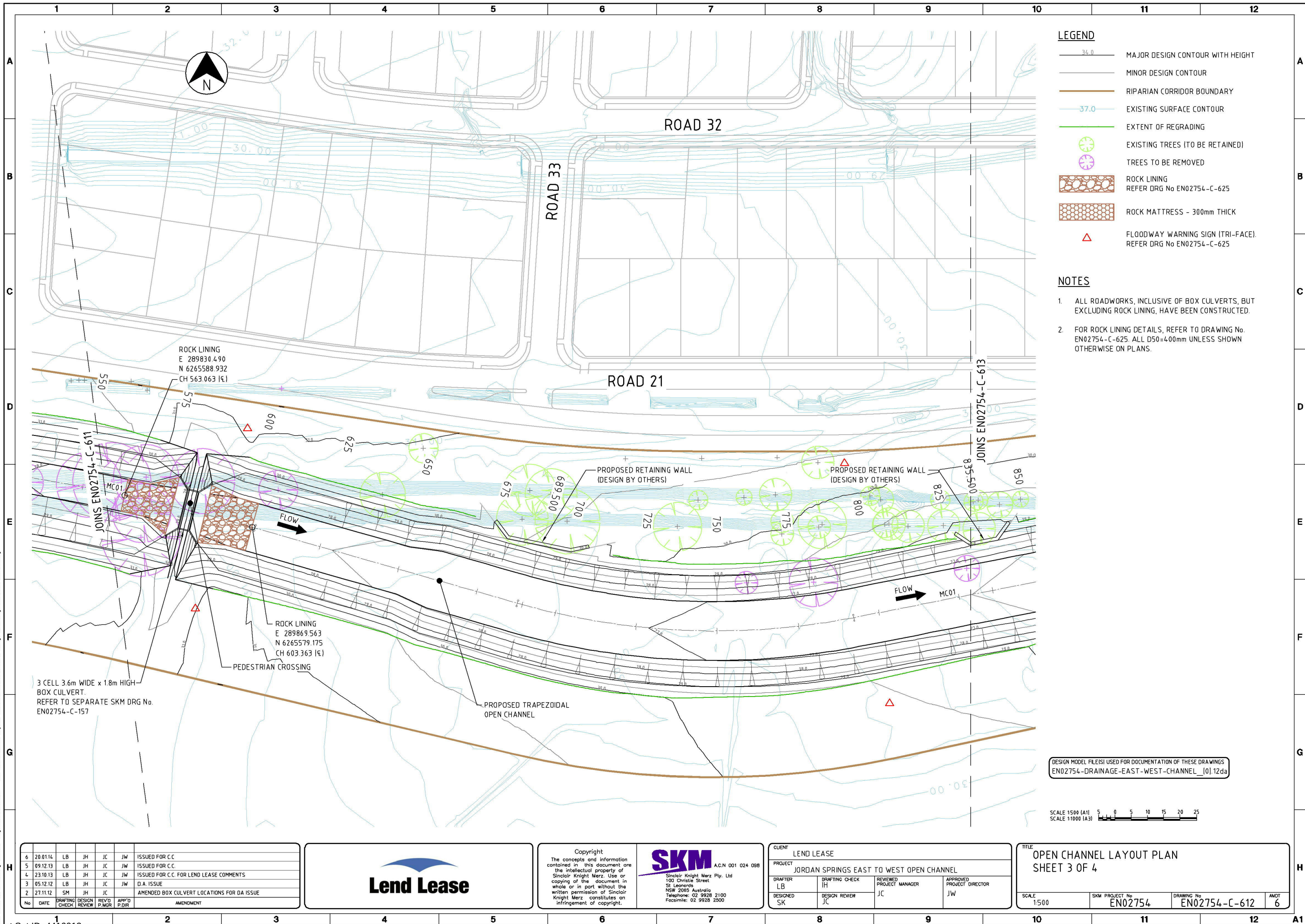
For Date: 20 Jan 2014 @ 10:45:52 Login Name: lbarner1 Cad File: \\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\DWG\EN02754-C-611.dwg



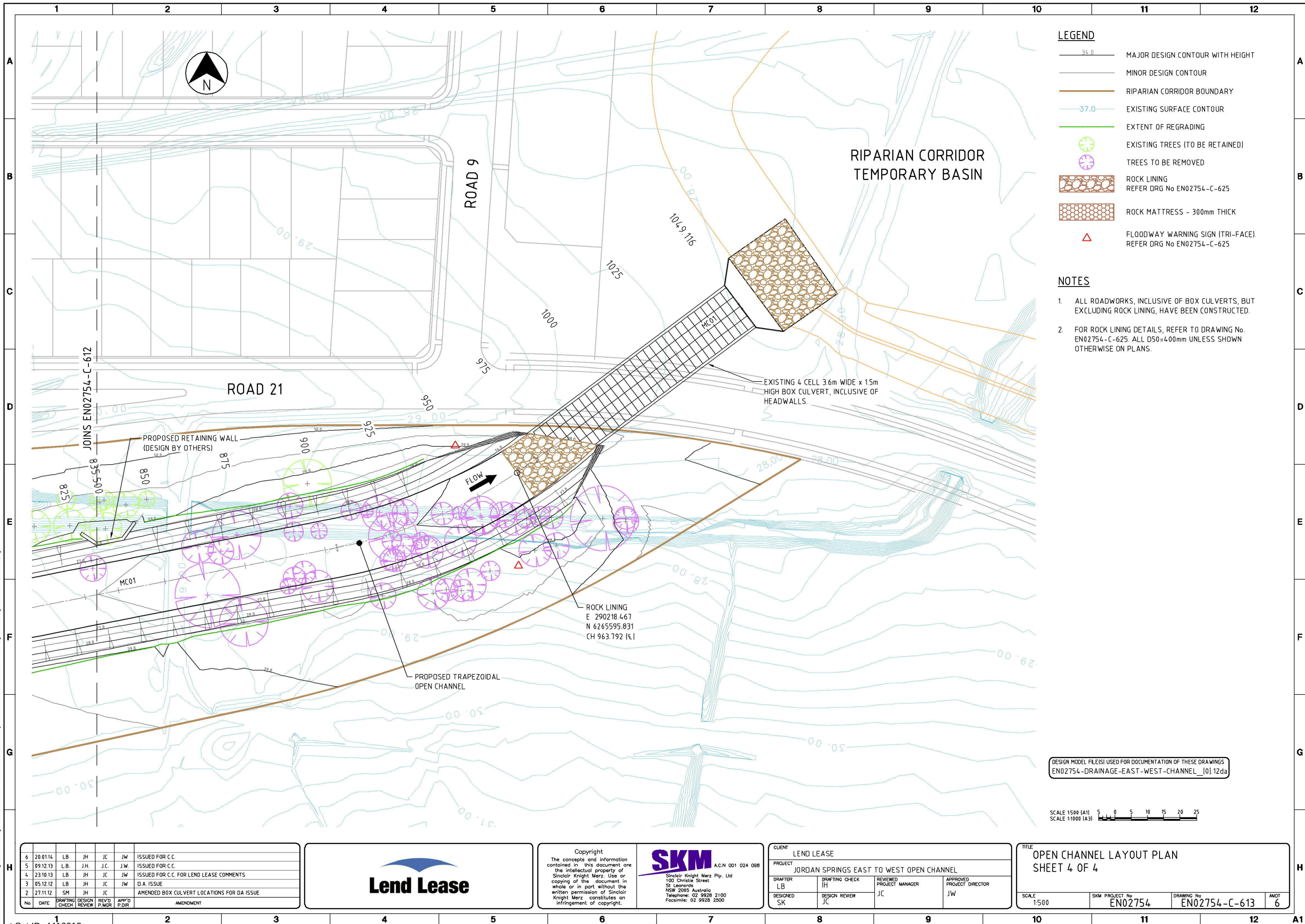
For Date: 20 Jan 2014 @ 11:04:08 Login Name: lbarner1 Cad File: \\ENVR\Projects\EN02754-Deliverables\Drawings\Civil\DWG\EN02754-C-611-613.dwg



Plot Date: 20 Jan 2014 @ 10:32:22 Login Name: lbarrett1 Cad File: I:\ENVA\Projects\EN02754_Deliverables\Drawings\Civil\DWG\EN02754-C-612.dwg



Plot Date: 20 Jan 2014 @ 15:13:44 Log Name: lbarrett1 Cad File: \\ENVR\Projects\EN02754_Deliverables\Drawings\Civil\DWG\EN02754C-011-013.dwg



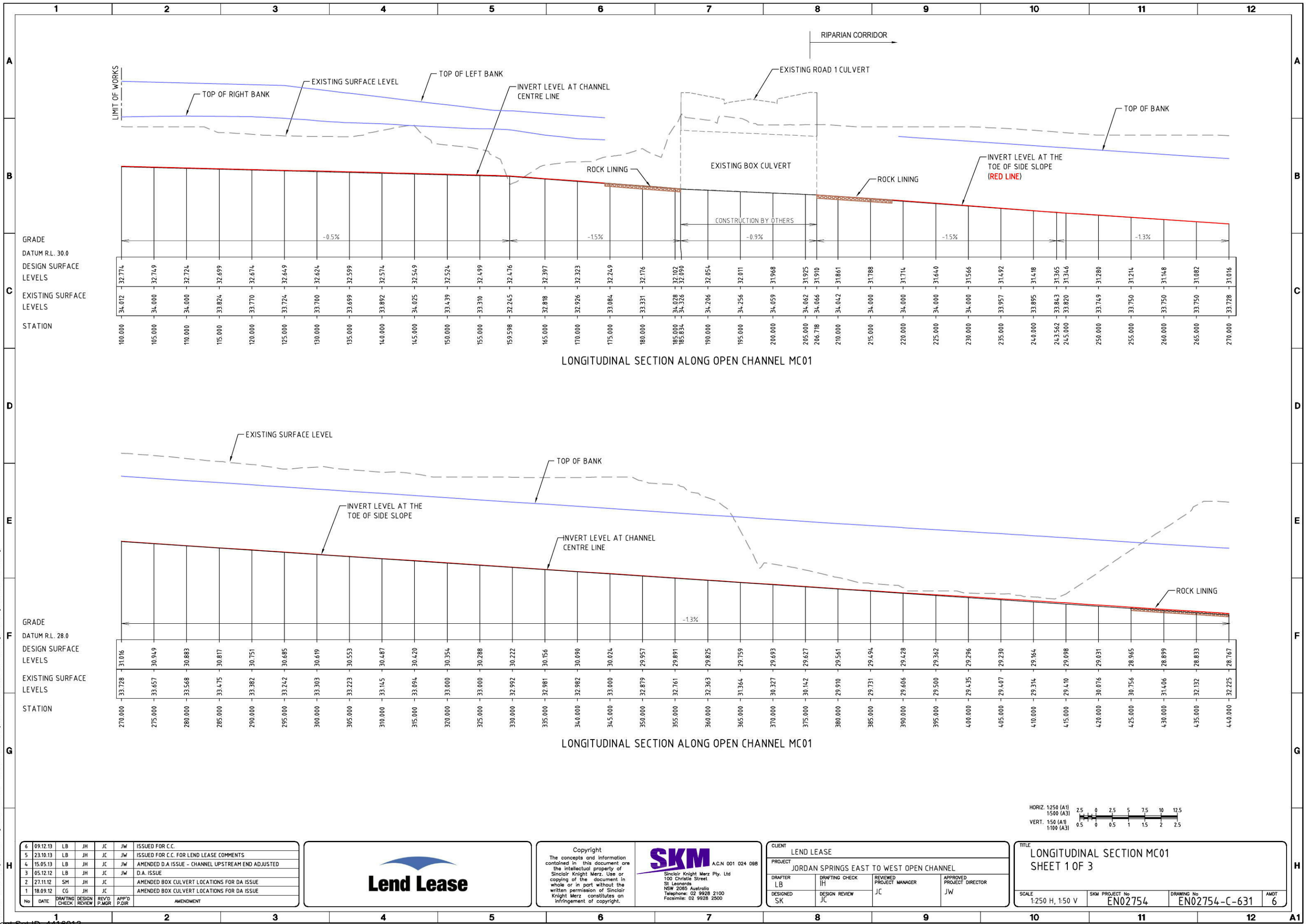
STATION	COORDINATES		BEARING DEG MIN SEC	RADIUS OF CURVATURE	TANGENT LENGTH	ARC LENGTH
	EASTING	NORTHING				
	100.000	289379.242	6265528.510	76° 25' 54"	STRAIGHT	
	120.465	289399.135	6265533.311	76° 25' 54"	-50.000	
IP 127.434	289405.955	6265534.956	-	-50.000	7.015	13.939
	134.404	289412.058	6265538.415	60° 27' 30"	STRAIGHT	
	142.371	289418.990	6265542.344	60° 27' 30"	50.000	
IP 149.736	289425.443	6265546.001	-	50.000	7.418	14.729
	157.100	289432.681	6265547.628	77° 20' 12"	STRAIGHT	
	159.243	289434.772	6265548.097	77° 20' 12"	-500.000	
IP 192.422	289467.191	6265555.382	-	-500.000	33.228	66.357
	225.601	289498.361	6265566.892	69° 43' 57"	STRAIGHT	
	243.552	289515.202	6265573.110	69° 43' 57"	355.000	
IP 306.340	289574.724	6265595.090	-	355.000	63.451	125.575
	369.128	289638.175	6265595.090	90° 0' 0"	STRAIGHT	
	403.248	289672.295	6265595.090	90° 0' 0"	-75.000	
IP 411.491	289680.571	6265595.090	-	-75.000	8.276	16.486
	419.733	289688.648	6265596.894	77° 24' 22"	STRAIGHT	
	436.380	289704.894	6265600.524	77° 24' 22"	75.000	
IP 447.132	289715.460	6265602.884	-	75.000	10.826	21.504
	457.884	289726.262	6265602.161	93° 50' 1"	STRAIGHT	
	476.523	289744.859	6265600.914	93° 50' 1"	600.000	
IP 540.399	289808.834	6265596.627	-	600.000	64.119	127.753
	604.276	289870.459	6265578.918	106° 1' 60"	STRAIGHT	
	687.900	289950.831	6265555.822	106° 1' 60"	-220.000	
IP 739.997	290001.858	6265541.158	-	-220.000	53.093	104.194
	792.094	290053.958	6265551.382	78° 53' 51"	STRAIGHT	
	903.595	290163.372	6265572.853	78° 53' 51"	-150.000	
IP 937.213	290196.924	6265579.437	-	-150.000	34.192	67.235
	970.830	290224.308	6265599.912	53° 12' 56"	STRAIGHT	
	1049.116	290287.007	6265646.790	53° 12' 56"	STRAIGHT	

STATION	COORDINATES		BEARING DEG MIN SEC	RADIUS OF CURVATURE	TANGENT LENGTH	ARC LENGTH
	EASTING	NORTHING				
0.000	289609.698	6265713.476	143° 49' 18"	STRAIGHT		
4.792	289612.527	6265709.608	143° 49' 16"	STRAIGHT		
56.905	289643.289	6265667.544	143° 49' 16"	-85.000		
IP 66.384	289648.908	6265659.861	-	-85.000	9.518	18.957
75.862	289656.087	6265653.611	131° 2' 34"	STRAIGHT		
129.431	289696.489	6265618.437	131° 2' 34"	-70.000		
IP 152.160	289714.261	6265602.965	-	-70.000	23.563	45.459
174.889	289737.772	6265601.389	93° 50' 2"	STRAIGHT		
174.892	289737.774	6265601.389	93° 50' 2"	STRAIGHT		

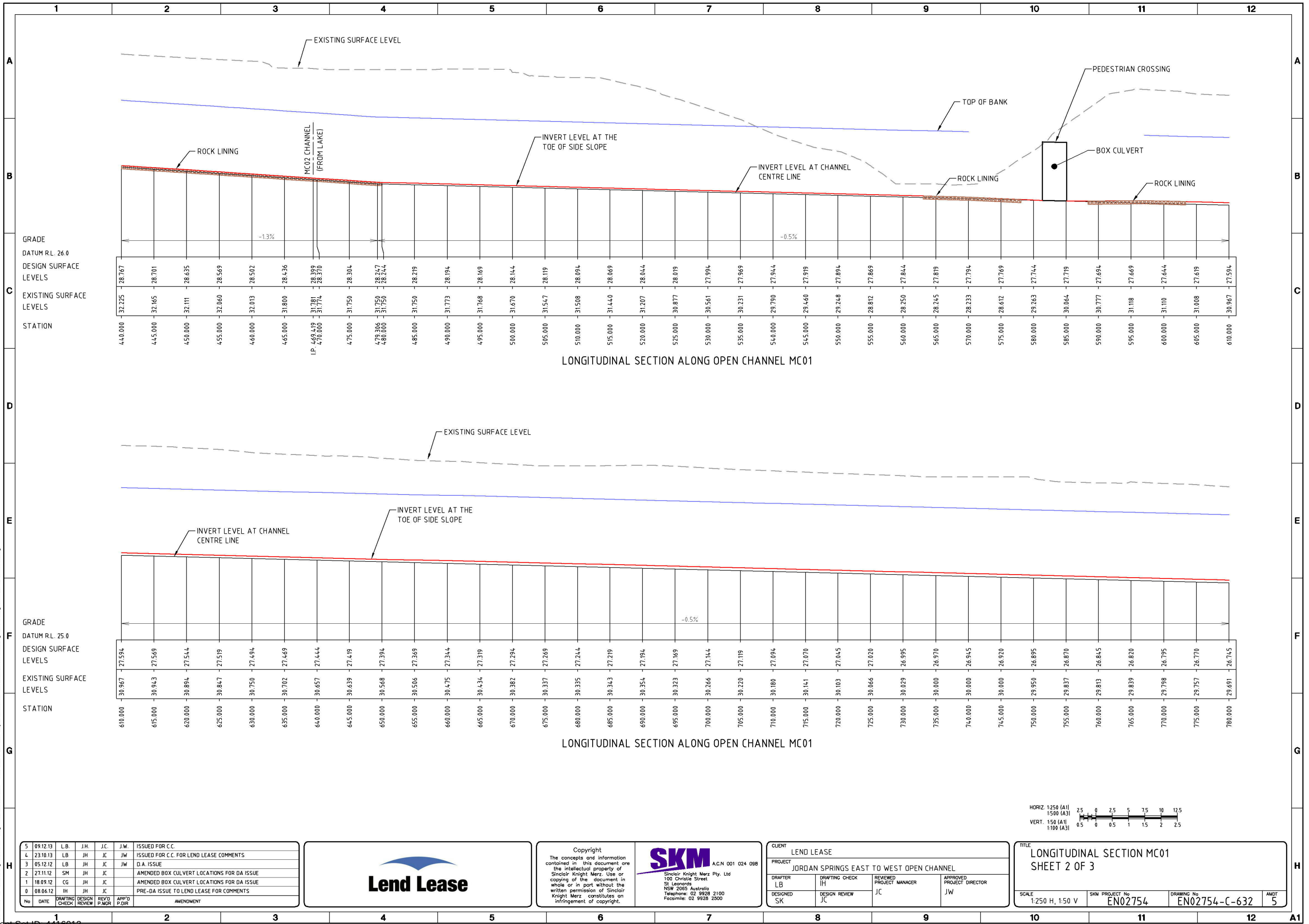


TITLE			
OPEN CHANNEL SETOUT TABLES			
MC01 & MC02			
SCALE	SKM PROJECT No	DRAWING No	AMDT
N.T.S.	EN02754	EN02754-C-625	2

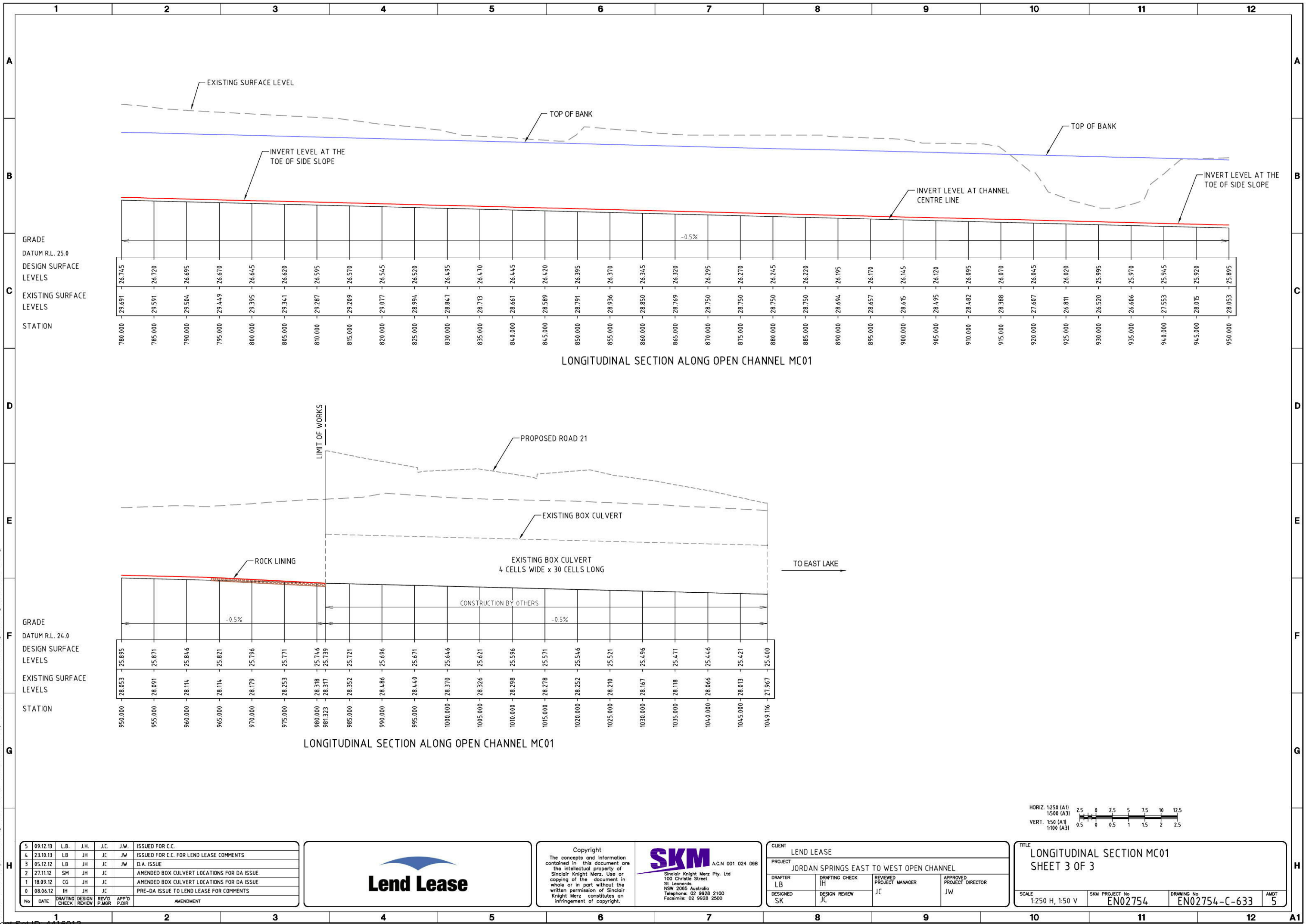
Plot Date: 10 Dec 2013 @ 09:30:18 Login Name: lbarrett1 Cad File: I:\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\DWG\EN02754C-631.dwg



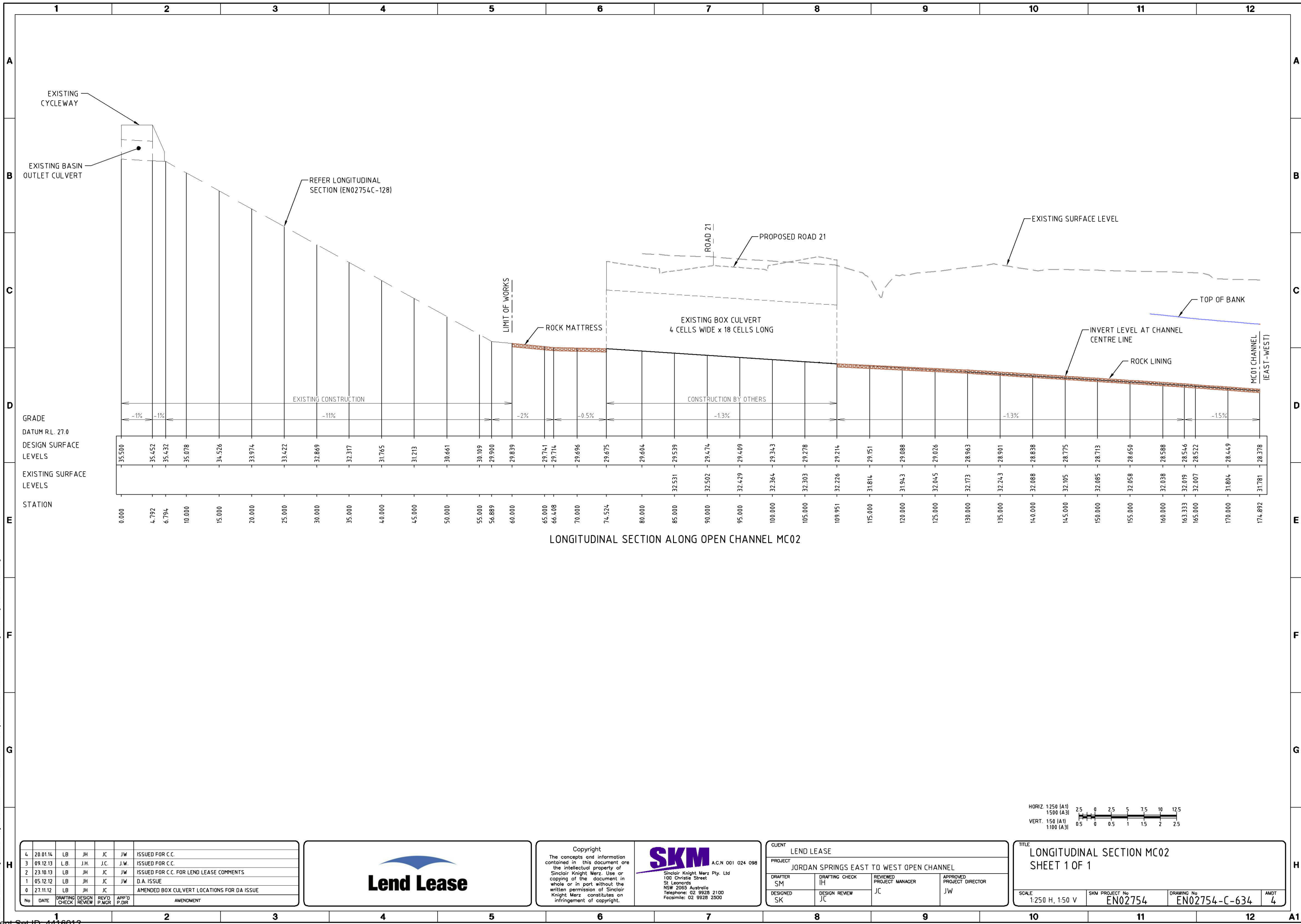
For Date: 10 Dec 2013 @ 09:33:46 Login Name: lbarnett Cad File: \\ENVR\Projects\EN2754\Drawings\Civil\DWG\EN02754C-631-633.dwg



Plot Date: 10 Dec 2013 @ 09:34:21 Login Name: lbarrett1 Cad File: I:\ENVR\Projects\EN02754-Deliverables\Drawings\Civil\EN02754-C-633.dwg



For Date: 20 Jan 2014 @ 10:28:17 Login Name: lbarrett1 Cad File: I:\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\DWG\EN02754C-634.dwg



4	20.01.14	LB	JH	JC	JW	ISSUED FOR C.C.
3	09.12.13	LB	JH	JC	JW	ISSUED FOR C.C.
2	23.10.13	LB	JH	JC	JW	ISSUED FOR C.C. FOR LEND LEASE COMMENTS
1	05.12.12	LB	JH	JC	JW	D.A. ISSUE
0	27.11.12	LB	JH	JC	JW	AMENDED BOX CULVERT LOCATIONS FOR DA ISSUE
No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT



Copyright
The concepts and information contained in this document are the intellectual property of Sinclair Knight Merz. Use or copying of the document in whole or in part without the written permission of Sinclair Knight Merz constitutes an infringement of copyright.

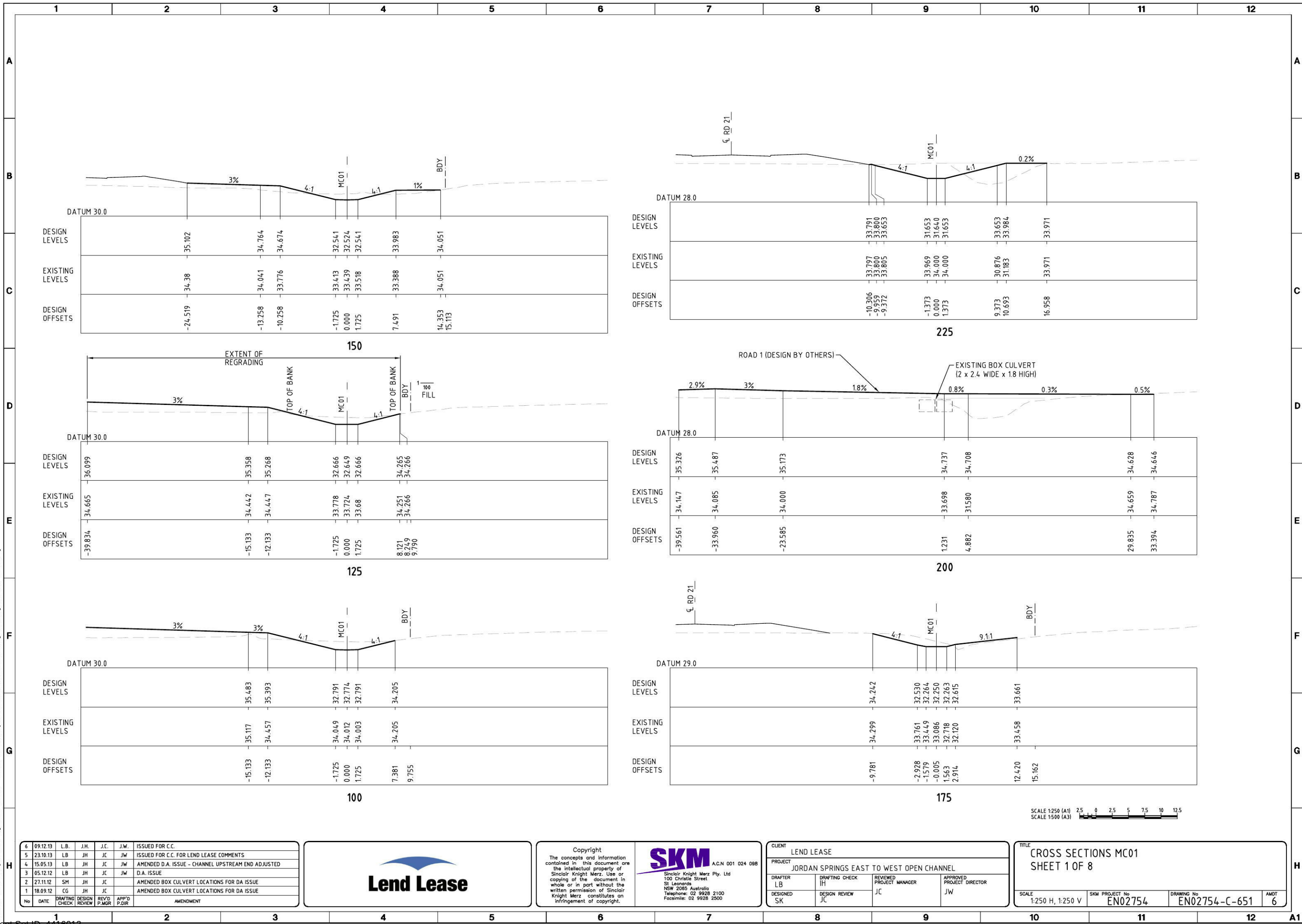


CLIENT	LEND LEASE
PROJECT	JORDAN SPRINGS EAST TO WEST OPEN CHANNEL
DRAFTER	SM
DESIGNED	SK
DRAFTING CHECK	IH
DESIGN REVIEW	JC
REVIEWED PROJECT MANAGER	JC
APPROVED PROJECT DIRECTOR	JW

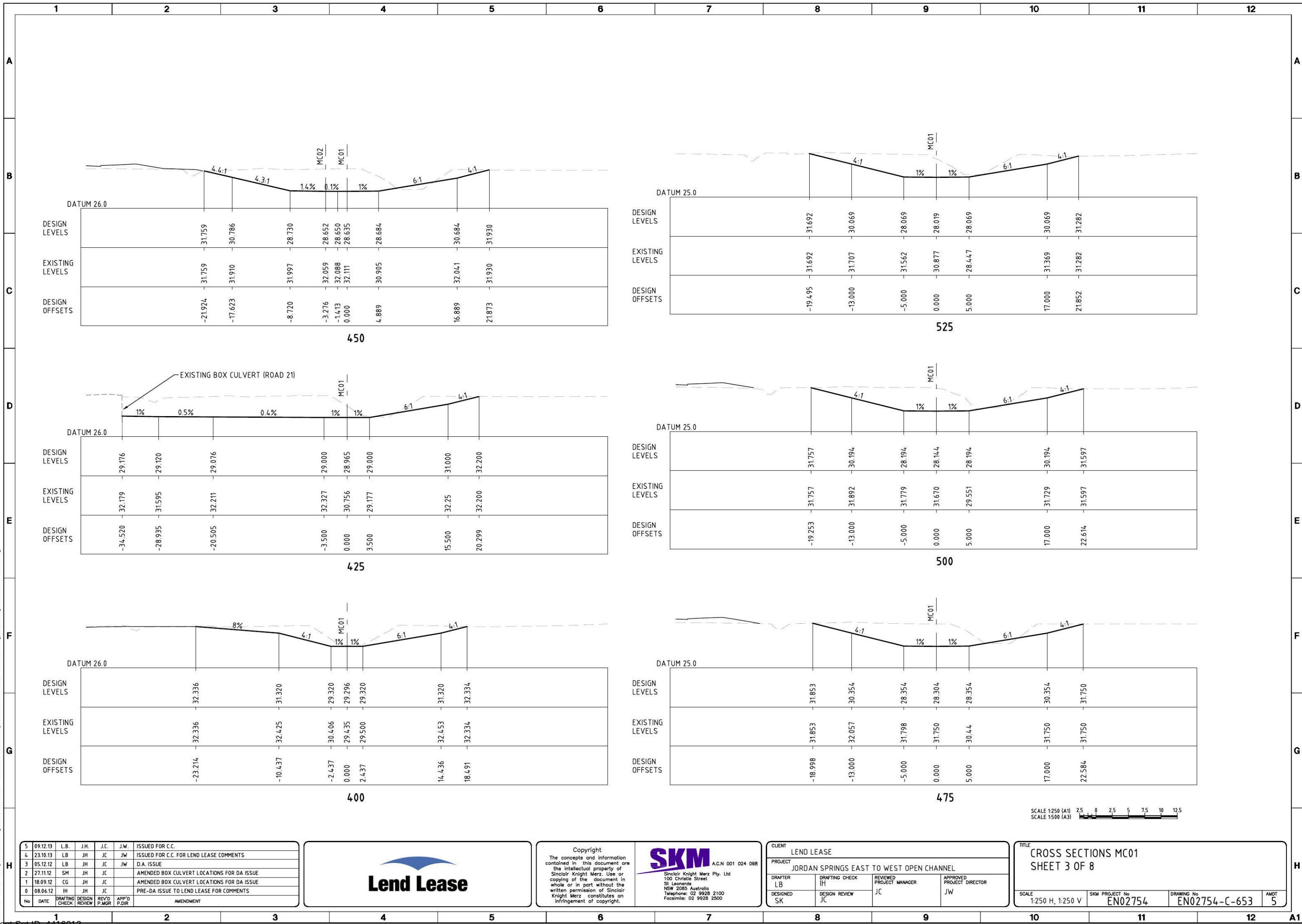
HORIZ. 1:250 (A1)
1:500 (A3)
VERT. 1:50 (A1)
1:100 (A3)

TITLE	LONGITUDINAL SECTION MC02 SHEET 1 OF 1
SCALE	1:250 H, 1:50 V
SKM PROJECT No	EN02754
DRAWING No	EN02754-C-634
AMDT	4

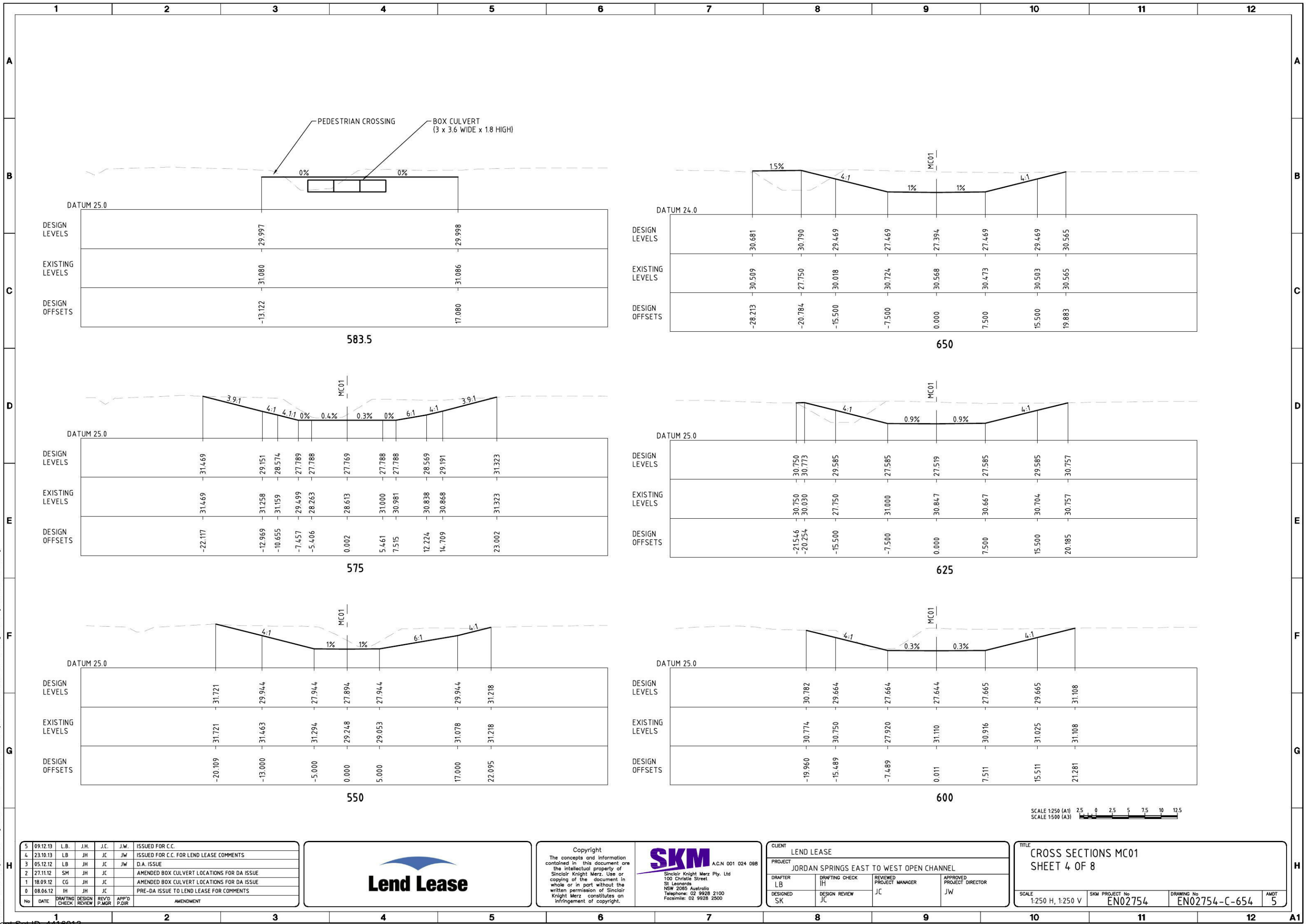
Plot Date: 10 Dec 2013 @ 09:36:52 Login Name: lbarrett1 Cad File: \\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\DWG\EN02754C-651-658.dwg

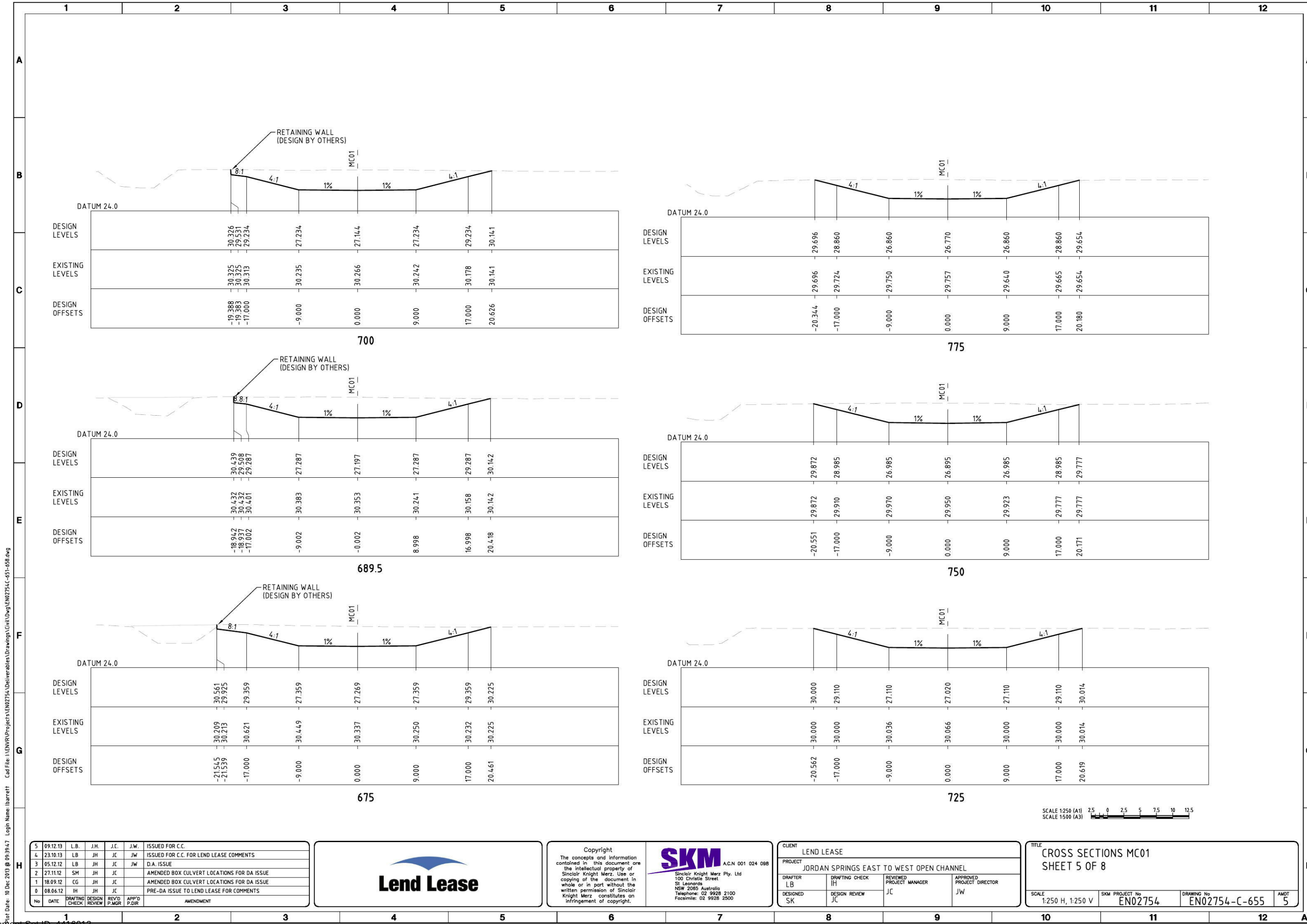


Plot Date: 10 Dec 2013 @ 09:38:12 Login Name: lbarrettH Cad File: I:\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\DWG\EN02754C-651-658.dwg

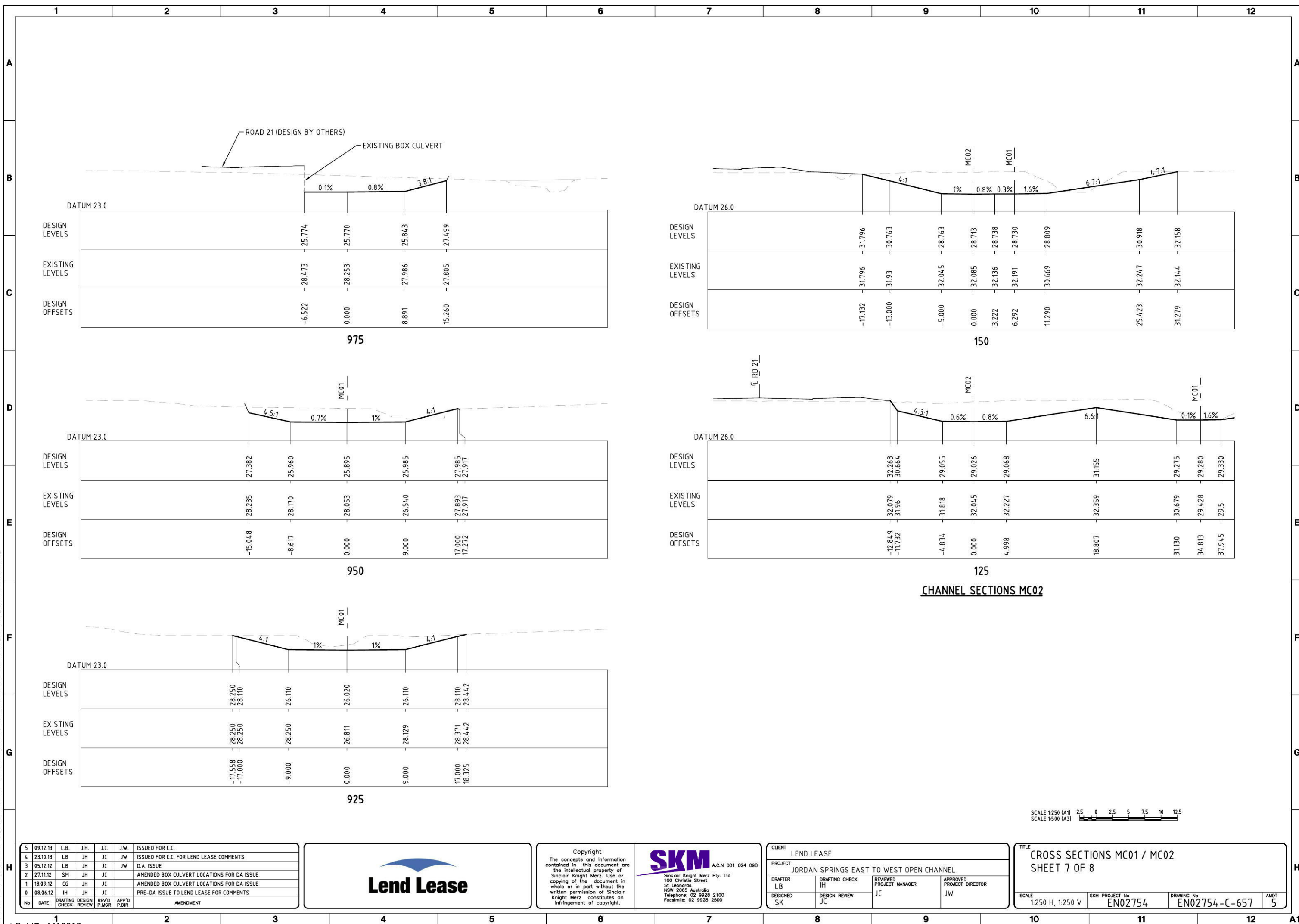


Plot Date: 10 Dec 2013 @ 09:39:17 Login Name: lbarrett1 Cad File: I:\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\DWG\EN02754C-651-658.dwg





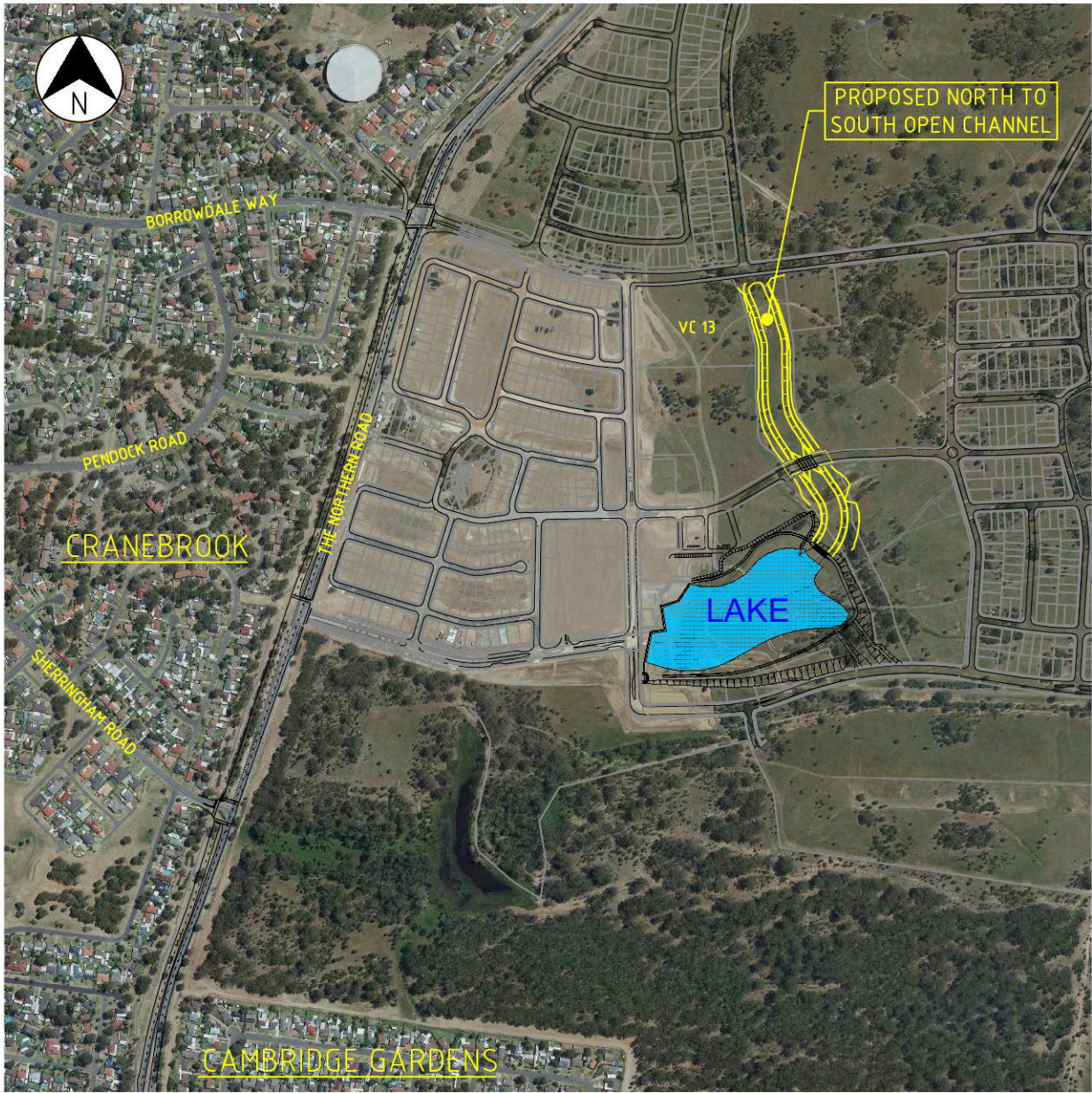






Lend Lease

JORDAN SPRINGS NORTH TO SOUTH OPEN CHANNEL



DRAWING INDEX

DRAWING No	DRAWING TITLE
EN02754-C-501	COVER SHEET AND DRAWING INDEX
EN02754-C-501.1	GENERAL ARRANGEMENT PLAN
EN02754-C-502	GENERAL NOTES
EN02754-C-510	OPEN CHANNEL LAYOUT PLAN - SHEET 1 OF 2
EN02754-C-511	OPEN CHANNEL LAYOUT PLAN - SHEET 2 OF 2
EN02754-C-515	TRANSITION DETAIL OF OPEN CHANNEL BASE AT ROAD 8 BOX CULVERT
EN02754-C-516	TRANSITION DETAIL OF OPEN CHANNEL BASE AT ROAD 9 HEADWALL
EN02754-C-525	OPEN CHANNEL SETOUT TABLE
EN02754-C-531	LONGITUDINAL SECTIONS MC03 - SHEET 1 OF 2
EN02754-C-532	LONGITUDINAL SECTIONS MC03 - SHEET 2 OF 2
EN02754-C-551	CROSS SECTIONS MC03 - SHEET 1 OF 3
EN02754-C-552	CROSS SECTIONS MC03 - SHEET 2 OF 3
EN02754-C-553	CROSS SECTIONS MC03 - SHEET 3 OF 3

SCALE 1:5000 (A1) 50 0 50 100 150 200 250
SCALE 1:10000 (A3)

5	31.01.14	LB	JH	JC	JW	ISSUED FOR C.C.
4	09.12.13	LB	JH	JC	JW	ISSUED FOR C.C.
3	23.10.13	LB	JH	JC	JW	ISSUED FOR C.C. FOR LEND LEASE COMMENTS
2	05.12.12	LB	JH	JC	JW	DA ISSUE
1	09.03.12	IH	JC	JC	JW	DA ISSUE TO LEND LEASE FOR COMMENTS
0	06.02.12	IH	JH	JC	JW	PRE-DA ISSUE TO LEND LEASE FOR COMMENTS
No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT

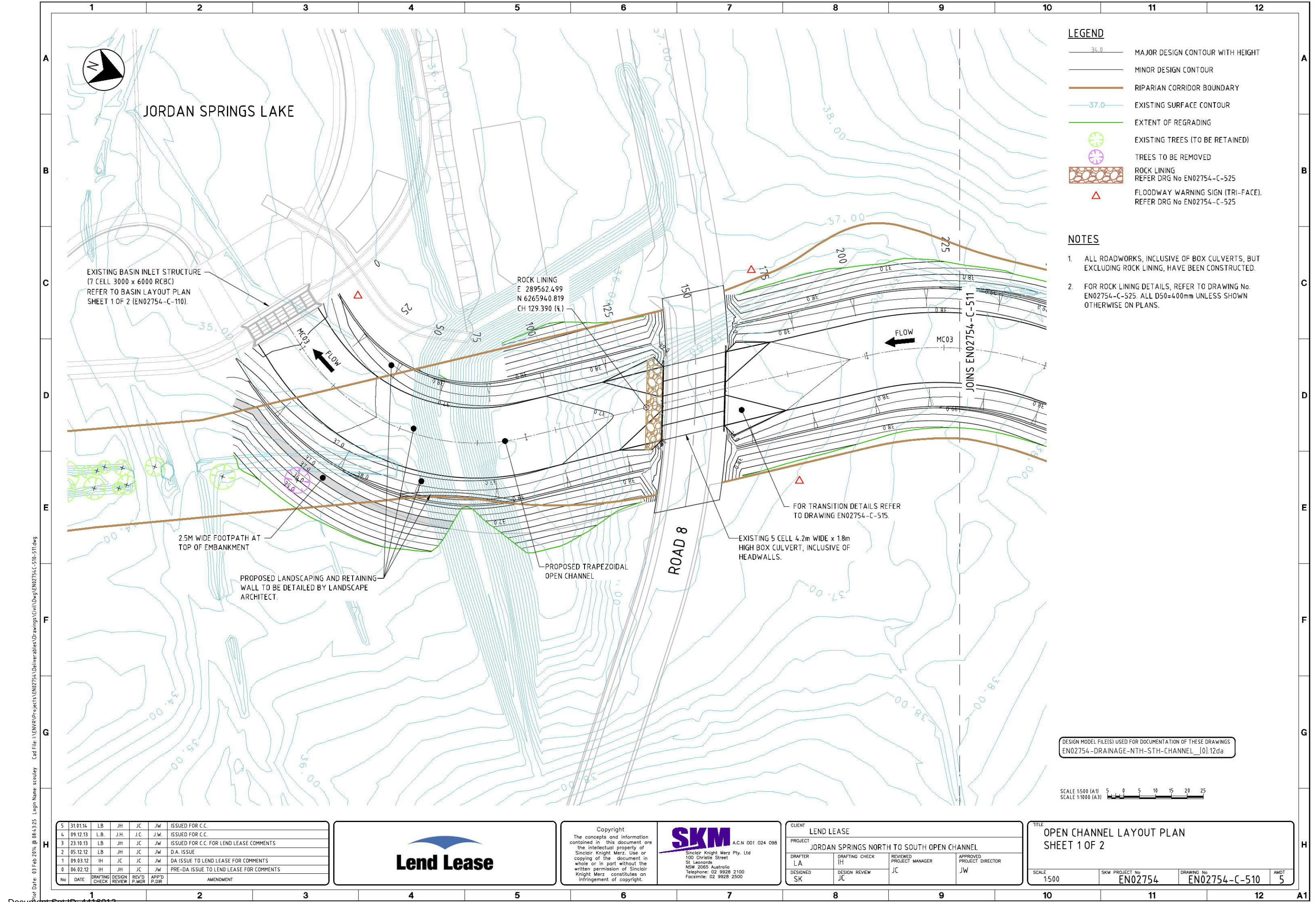
Copyright
The concepts and information
contained in this document are
the intellectual property of
Sinclair Knight Merz. Use or
copying of the document in
whole or in part without the
written permission of Sinclair
Knight Merz constitutes an
infringement of copyright.

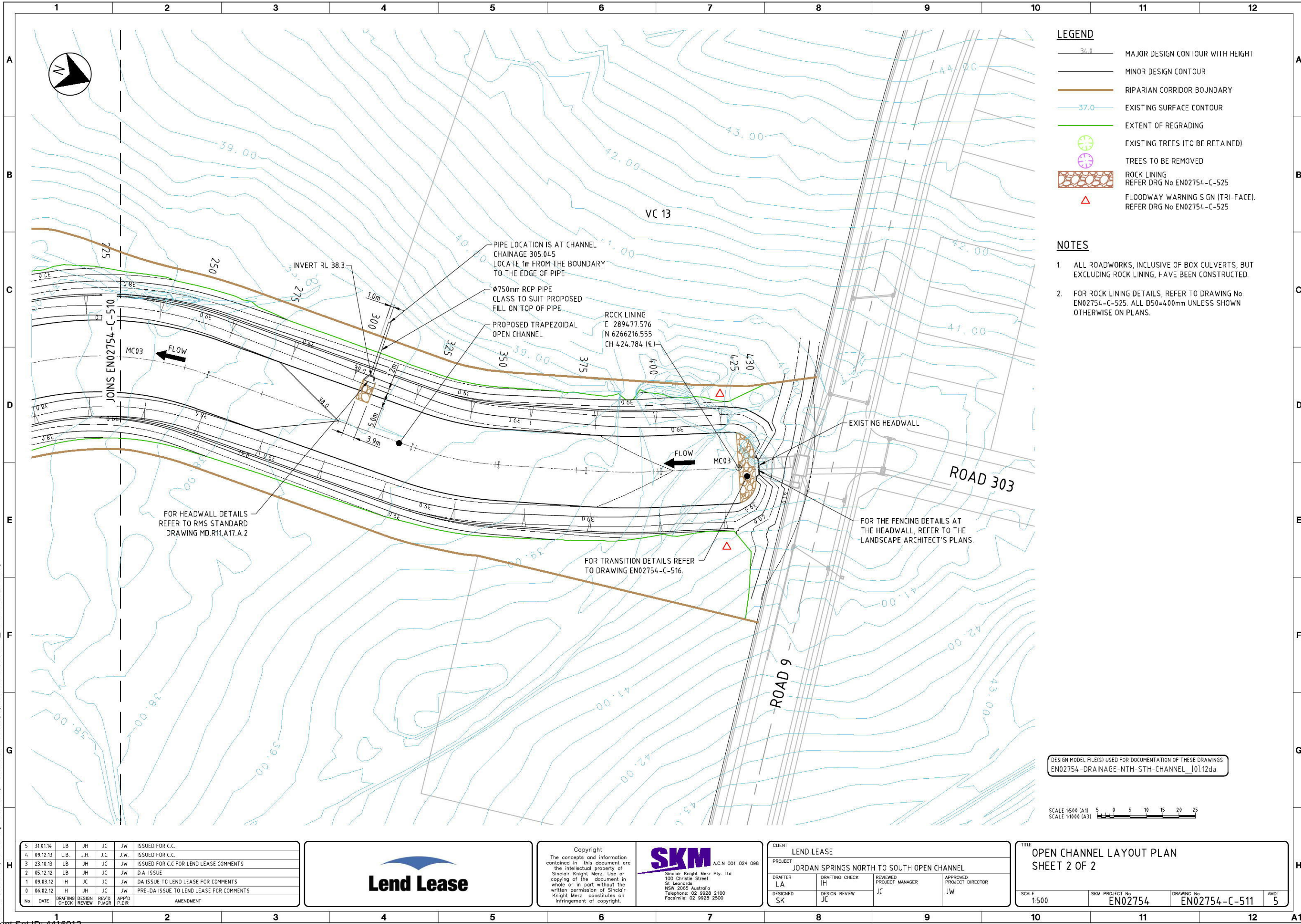
A.C.N 001 024 098
Sinclair Knight Merz Pty. Ltd
100 Christie Street
St Leonards
NSW 2065 Australia
Telephone: 02 9928 2100
Facsimile: 02 9928 2500

CLIENT LEND LEASE			
PROJECT JORDAN SPRINGS NORTH TO SOUTH OPEN CHANNEL			
DRAFTER LA	DRAFTING CHECK IH	REVIEWED PROJECT MANAGER JC	APPROVED PROJECT DIRECTOR JW
DESIGNED SK	DESIGN REVIEW JC		

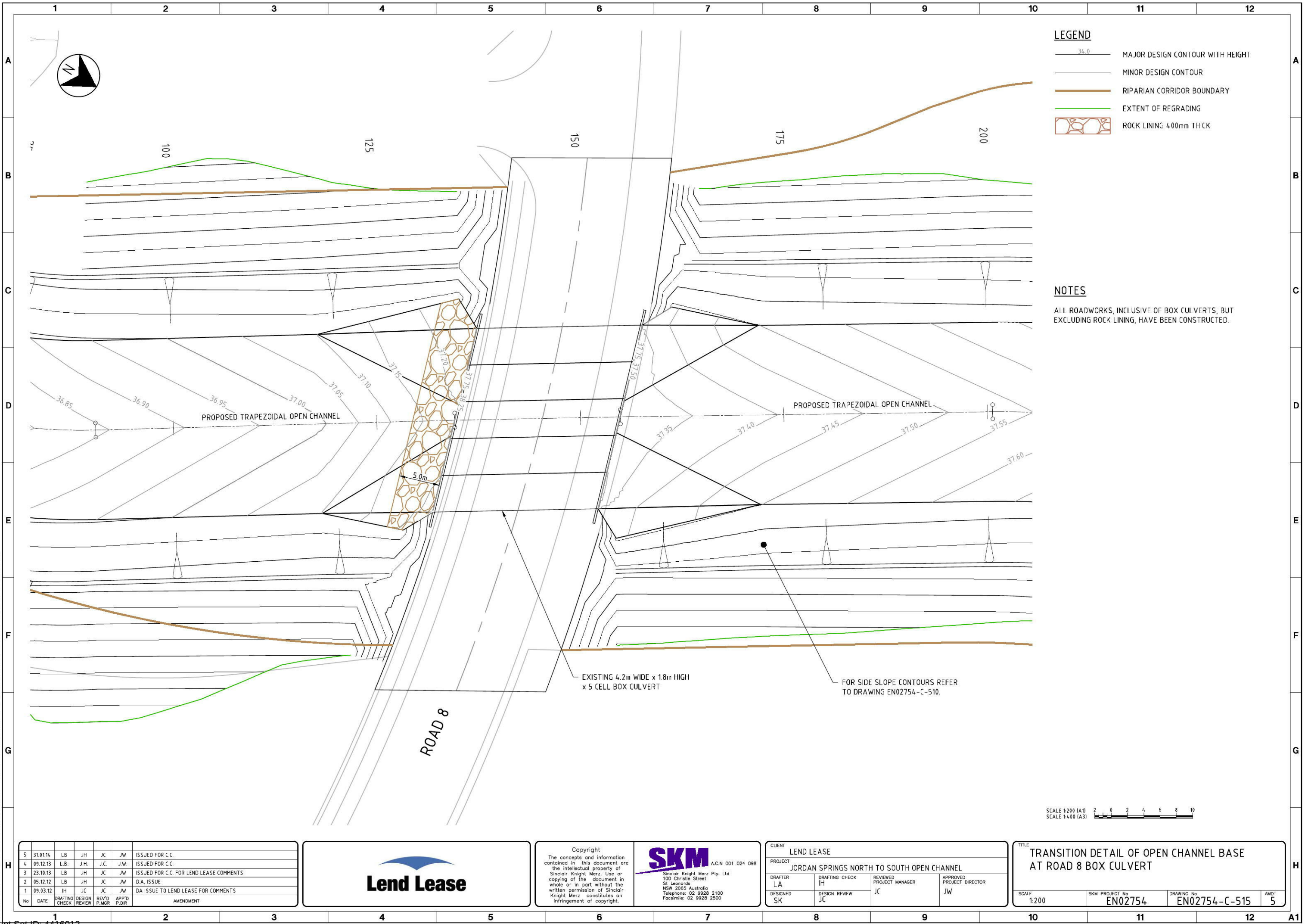
TITLE COVER SHEET AND DRAWING INDEX			
SCALE 1:5000	SKM PROJECT No EN02754	DRAWING No EN02754-C-501	AMDT 5

<





Plot Date: 31 Jan 2014 @ 14:41:28 Login Name: scouley Cad File: I:\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\DWG\EN02754-C-515-51.dwg



5	31.01.14	LB	JH	JC	JW	ISSUED FOR C.C.
4	09.12.13	LB	JH	JC	JW	ISSUED FOR C.C.
3	23.10.13	LB	JH	JC	JW	ISSUED FOR C.C. FOR LEND LEASE COMMENTS
2	05.12.12	LB	JH	JC	JW	D.A. ISSUE
1	09.03.12	IH	JC	JC	JW	DA ISSUE TO LEND LEASE FOR COMMENTS
No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT

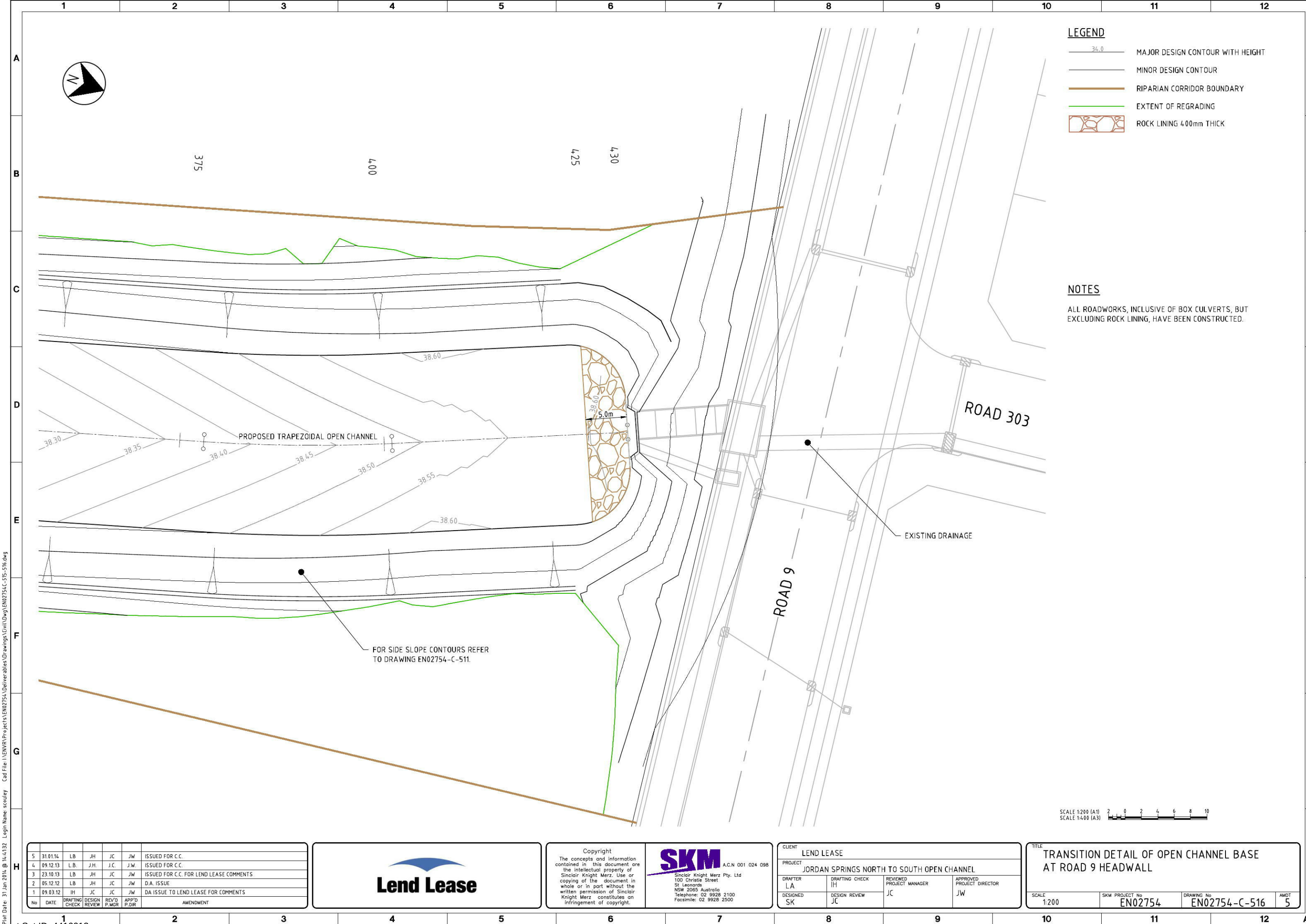
Lend Lease

Copyright
The concepts and information
contained in this document are
the intellectual property of
Sinclair Knight Merz. Use or
copying of the document in
whole or in part without the
written permission of Sinclair
Knight Merz constitutes an
infringement of copyright.

SKM
A.C.N 001 024 098
Sinclair Knight Merz Pty. Ltd
100 Christie Street
St Leonards
NSW 2065 Australia
Telephone: 02 9928 2100
Facsimile: 02 9928 2500

CLIENT LEND LEASE			
PROJECT JORDAN SPRINGS NORTH TO SOUTH OPEN CHANNEL			
DRAFTER LA	DRAFTING CHECK IH	REVIEWED PROJECT MANAGER JC	APPROVED PROJECT DIRECTOR JW
DESIGNED SK	DESIGN REVIEW JC		

TITLE TRANSITION DETAIL OF OPEN CHANNEL BASE AT ROAD 8 BOX CULVERT			
SCALE 1:200	SKM PROJECT No EN02754	DRAWING No EN02754-C-515	AMDT 5



Cad File: I:\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\DWG\EN02754-C-516-516.dwg

Plot Date: 31 Jan 2014 @ 14:132 Login Name: scouley

5	31.01.14	LB	JH	JC	JW	ISSUED FOR C.C.
4	09.12.13	LB	JH	JC	JW	ISSUED FOR C.C.
3	23.10.13	LB	JH	JC	JW	ISSUED FOR C.C. FOR LEND LEASE COMMENTS
2	05.12.12	LB	JH	JC	JW	D.A. ISSUE
1	09.03.12	IH	JC	JC	JW	DA ISSUE TO LEND LEASE FOR COMMENTS
No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT



Copyright
The concepts and information contained in this document are the intellectual property of Sinclair Knight Merz. Use or copying of the document in whole or in part without the written permission of Sinclair Knight Merz constitutes an infringement of copyright.

SKM
A.C.N 001 024 098
Sinclair Knight Merz Pty. Ltd
100 Christie Street
St Leonards
NSW 2065 Australia
Telephone: 02 9928 2100
Facsimile: 02 9928 2500

CLIENT	LEND LEASE
PROJECT	JORDAN SPRINGS NORTH TO SOUTH OPEN CHANNEL
DRAFTER	LA
DESIGNED	SK
DRAFTING CHECK	IH
DESIGN REVIEW	JC
REVIEWED PROJECT MANAGER	JC
APPROVED PROJECT DIRECTOR	JW

SCALE	1:200
SKM PROJECT No	EN02754
DRAWING No	EN02754-C-516
AMDT	5

CONTROL LINE MC03 SETOUT

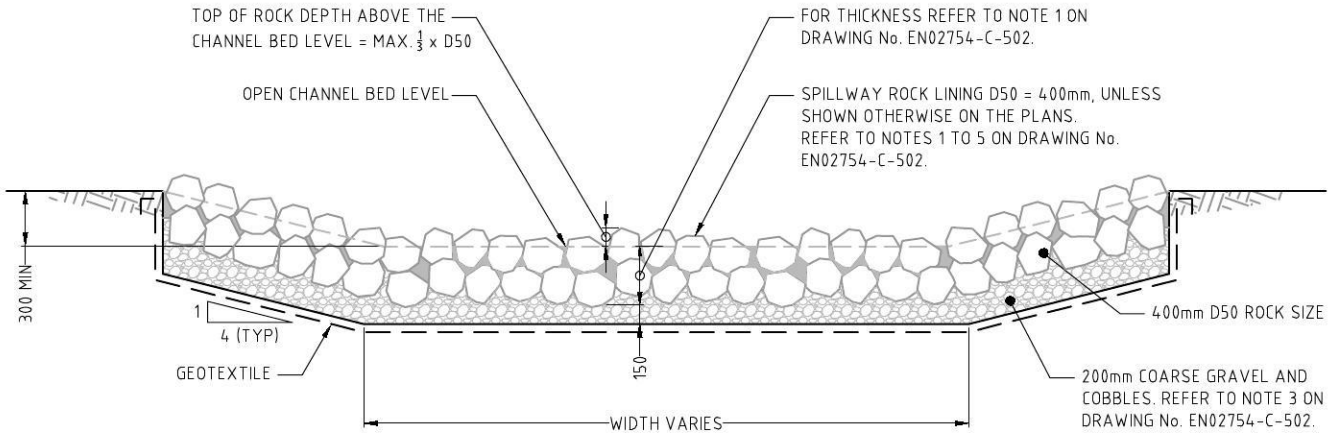
CHAINAGE	COORDINATES		BEARING DEG MIN SEC	RADIUS OF CURVATURE	TANGENT LENGTH	ARC LENGTH
	EASTING	NORTHING				
0.000	289576.369	6265825.173	37° 5' 23"	STRAIGHT		
9.768	289582.259	6265832.965	37° 5' 23"	-65.000		
IP 50.097	289610.271	6265870.016	-	-65.000	46.448	80.658
90.426	289584.292	6265908.520	325° 59' 30"	STRAIGHT		
134.564	289559.605	6265945.108	326° 24' 26"	STRAIGHT		
154.910	289548.348	6265962.056	326° 46' 40"	STRAIGHT		
200.650	289523.287	6266000.320	326° 46' 40"	100.000		
IP 229.051	289507.294	6266024.739	-	100.000	29.190	56.802
257.452	289506.949	6266053.927	359° 19' 21"	STRAIGHT		
323.757	289506.165	6266120.227	359° 19' 21"	-100.000		
IP 337.417	289506.003	6266133.972	-	-100.000	13.746	27.320
351.077	289502.138	6266147.163	343° 40' 10"	STRAIGHT		
377.939	289494.585	6266172.942	343° 40' 10"	-200.000		
IP 389.446	289491.346	6266183.996	-	-200.000	11.519	23.013
400.953	289486.859	6266194.606	337° 4' 35"	STRAIGHT		
429.785	289475.629	6266221.161	337° 4' 35"	STRAIGHT		



FLOODWAY WARNING SIGNS

EACH SIGN SHALL HAVE 3 FACES, MOUNTED IN A TRIANGULAR ARRAY.
SIGN POSTS ARE TO BE Ø65 GMS PIPE, SET IN CONCRETE (Ø250 POST
HOLE 600mm DEEP. POST TO BE OFFSET 3.0m FROM EDGE OF WATER)

REFER ALSO TO BLACKTOWN CITY COUNCIL STANDARD DRAWING
A(BS)114S



ROCK LINING - TYPICAL SECTION THROUGH CHANNEL

2	31.01.14	LB	JH	JC	JW	ISSUED FOR C.C.
1	09.12.13	LB	JH	JC	JW	ISSUED FOR C.C.
0	23.10.13	LB	JH	JC	JW	ISSUED FOR C.C. FOR LEND LEASE COMMENTS
No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT

Lend Lease

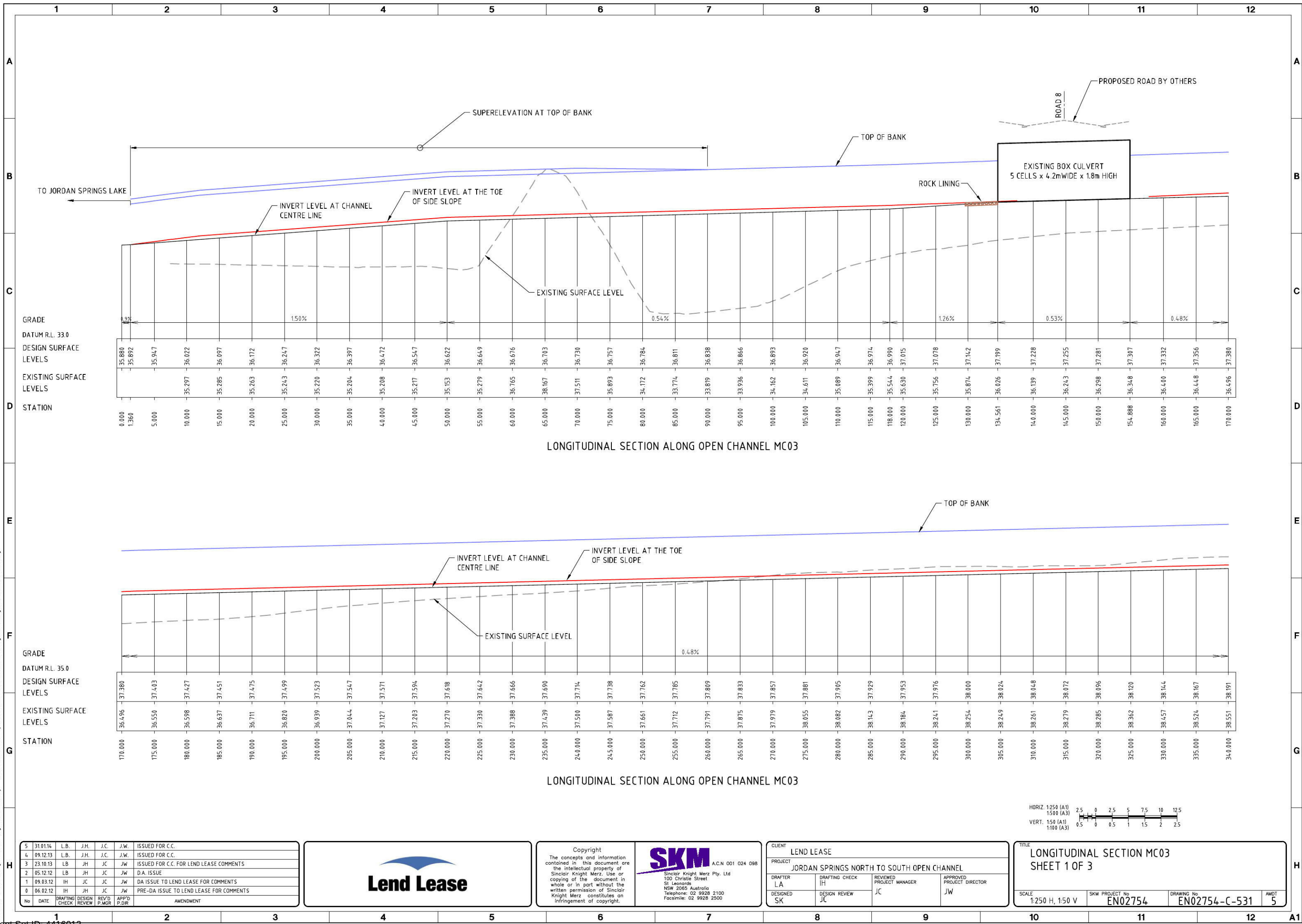
Copyright
The concepts and information
contained in this document are
the intellectual property of
Sinclair Knight Merz. Use or
copying of the document in
whole or in part without the
written permission of Sinclair
Knight Merz constitutes an
infringement of copyright.

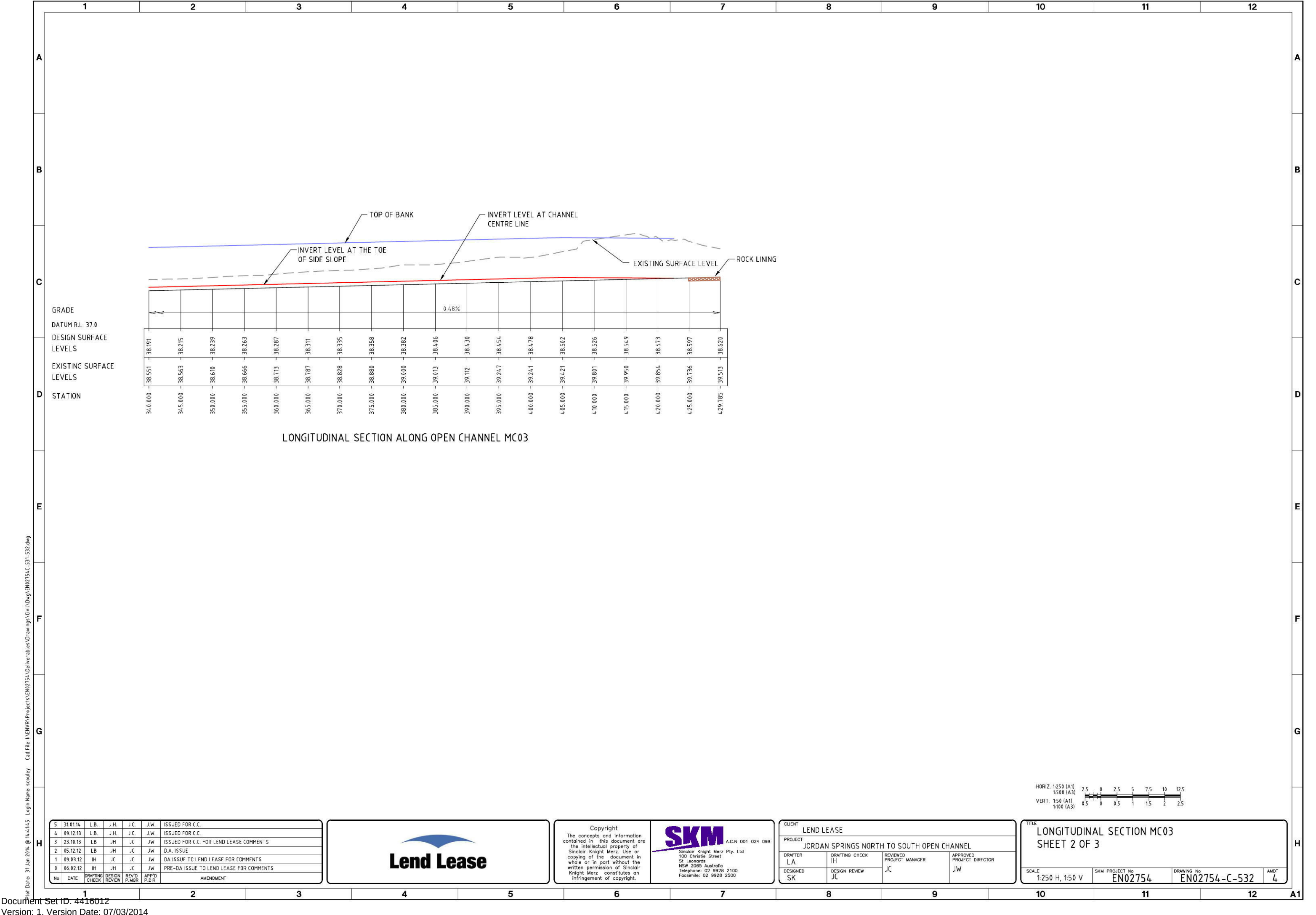
A.C.N 001 024 098
Sinclair Knight Merz Pty. Ltd
100 Christie Street
St Leonards
NSW 2065 Australia
Telephone: 02 9928 2100
Facsimile: 02 9928 2500

CLIENT LEND LEASE			
PROJECT JORDAN SPRINGS NORTH TO SOUTH OPEN CHANNEL			
DRAFTER LB	DRAFTING CHECK	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
DESIGNED SK	DESIGN REVIEW JC	JC	JW

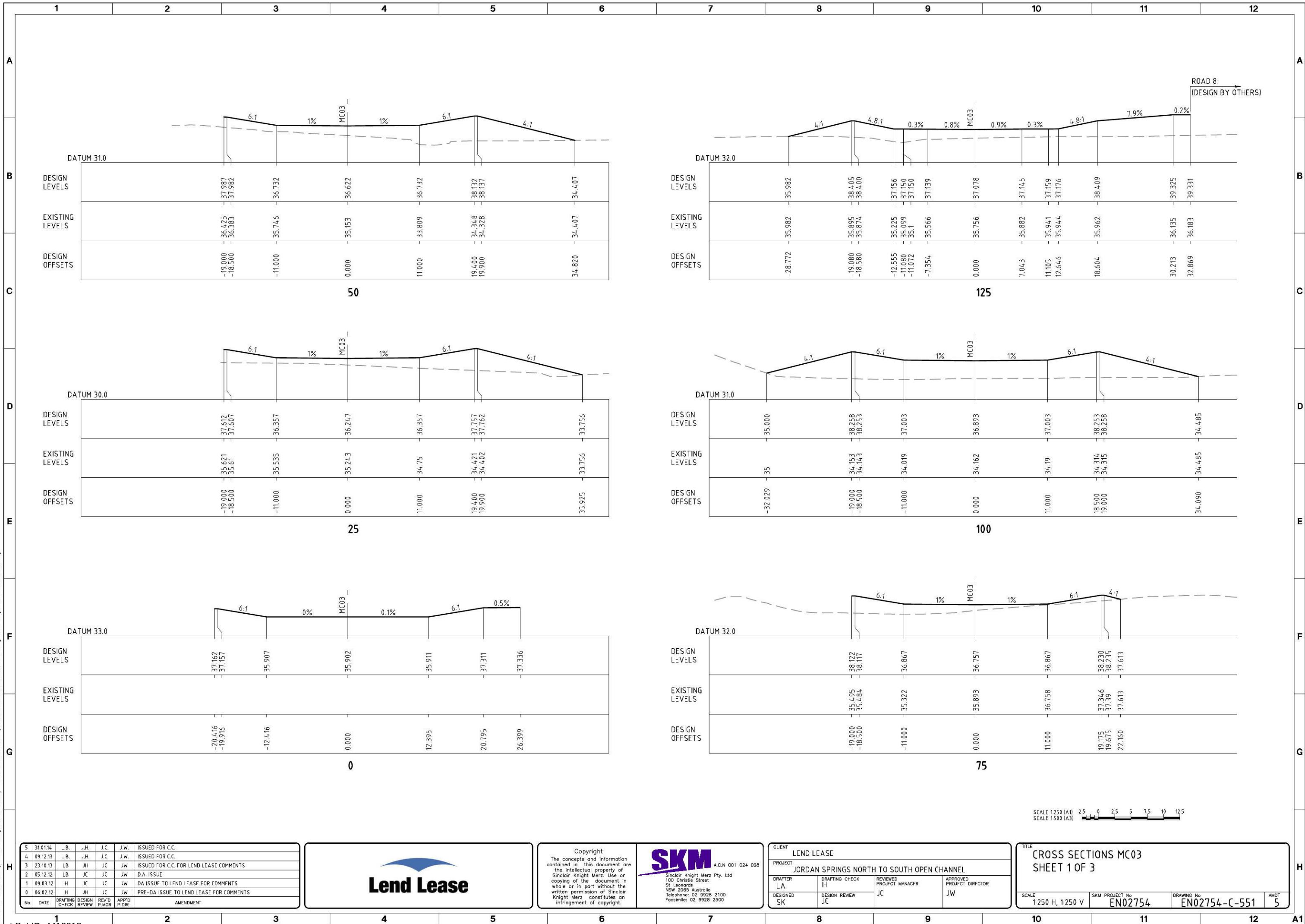
TITLE OPEN CHANNEL SETOUT TABLE MC03			
SCALE N.T.S.	SKM PROJECT No EN02754	DRAWING No EN02754-C-525	AMDT 2

Plot Date: 31 Jan 2014 @ 14:41:43 Login Name: scouley Cad File: I:\NEW\Projects\EN02754\Deliverables\Drawings\Civil\DWG\EN02754-C-531-532.dwg

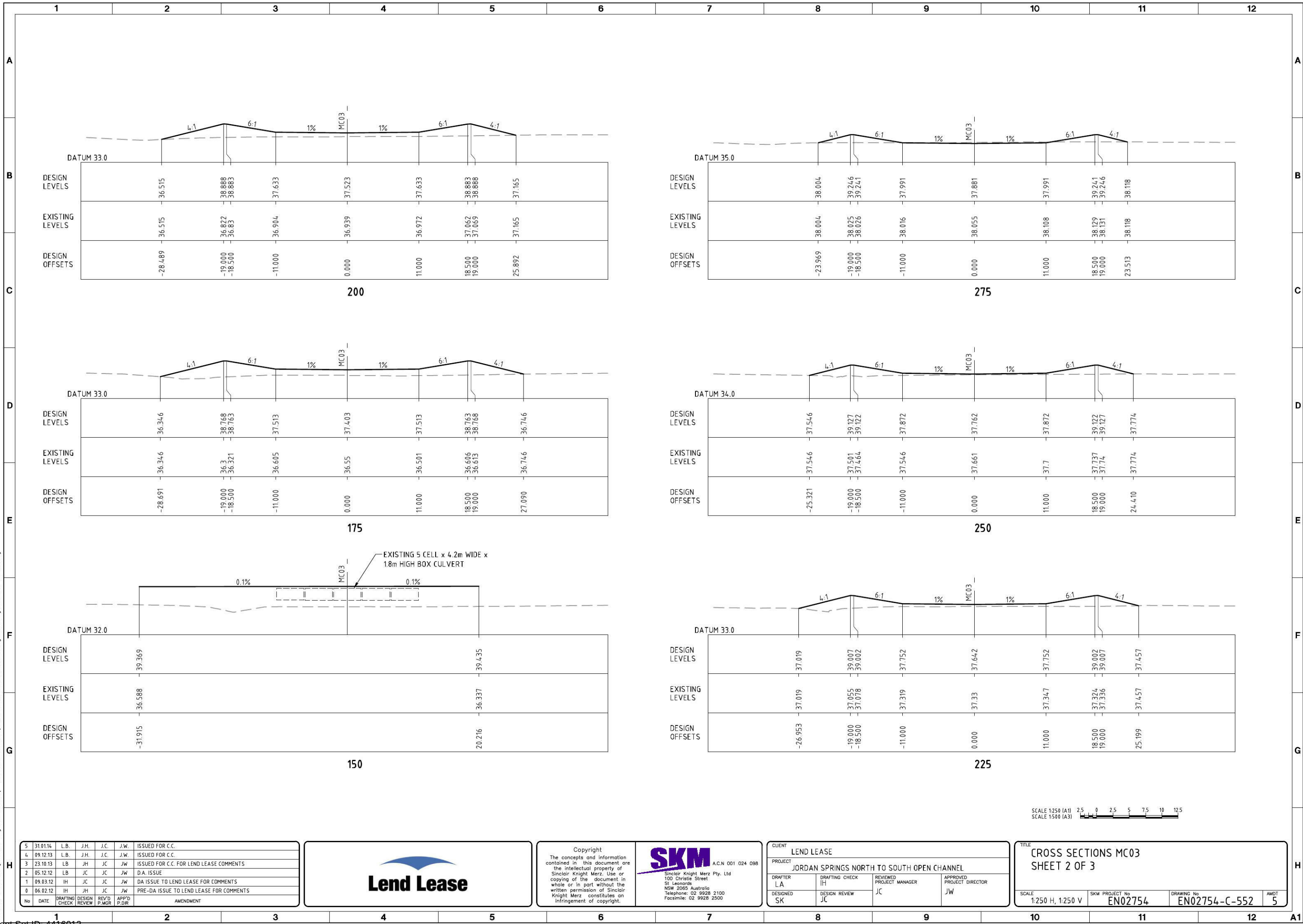




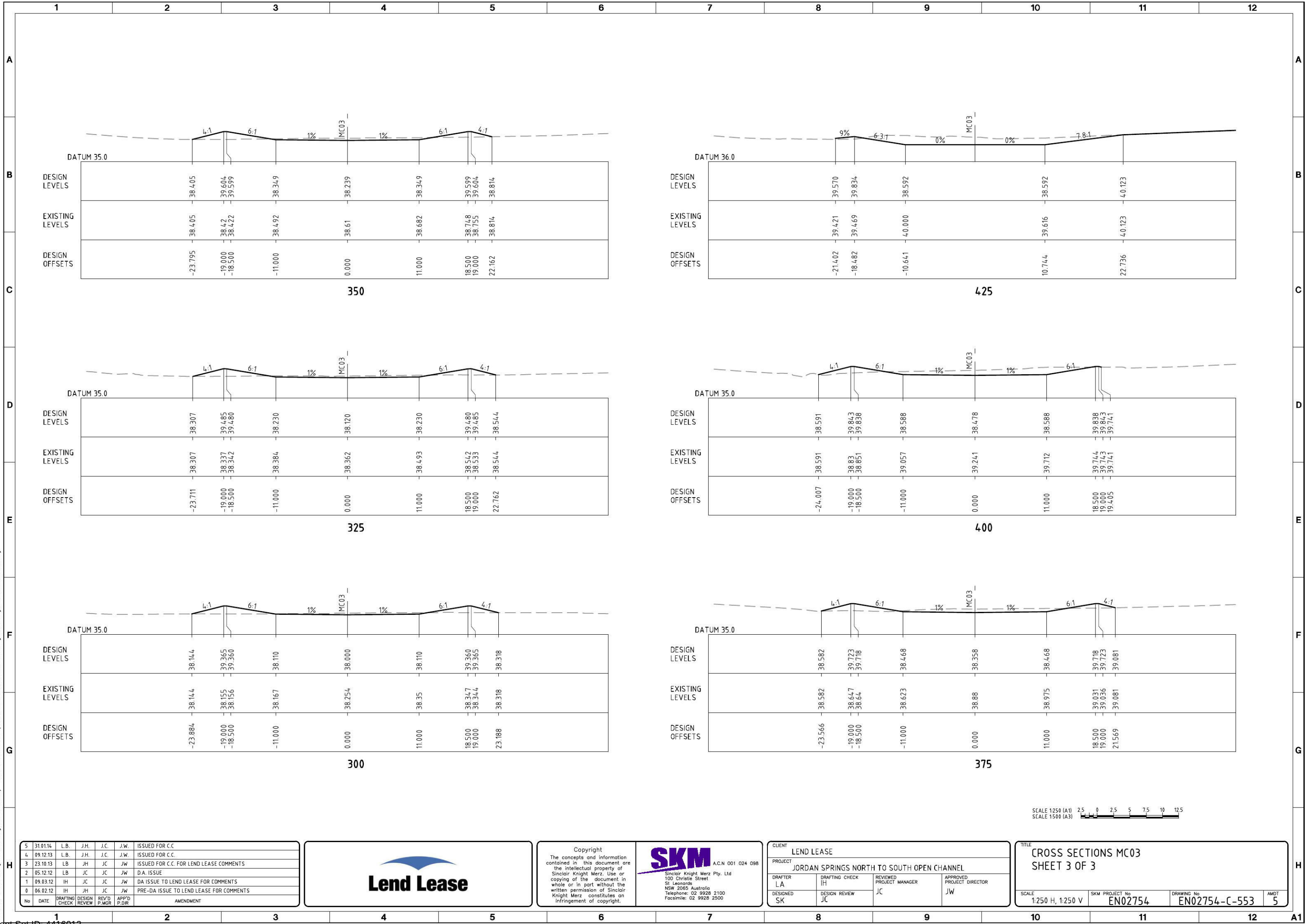
Plot Date: 31 Jan 2014 @ 14:08:10 Login Name: scouley Cad File: I:\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\DWG\EN02754-C-551-553.dwg

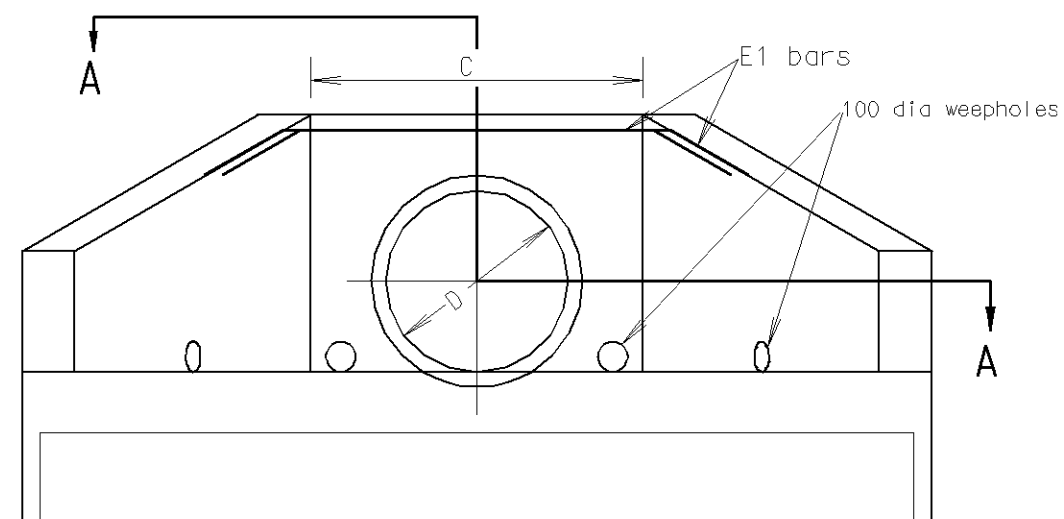


Plot Date: 31 Jan 2014 @ 14:03:11 Login Name: scouley Cad File: I:\ENVR\Projects\EN02754\Deliverables\Drawings\DWG\EN02754-C-551-553.dwg

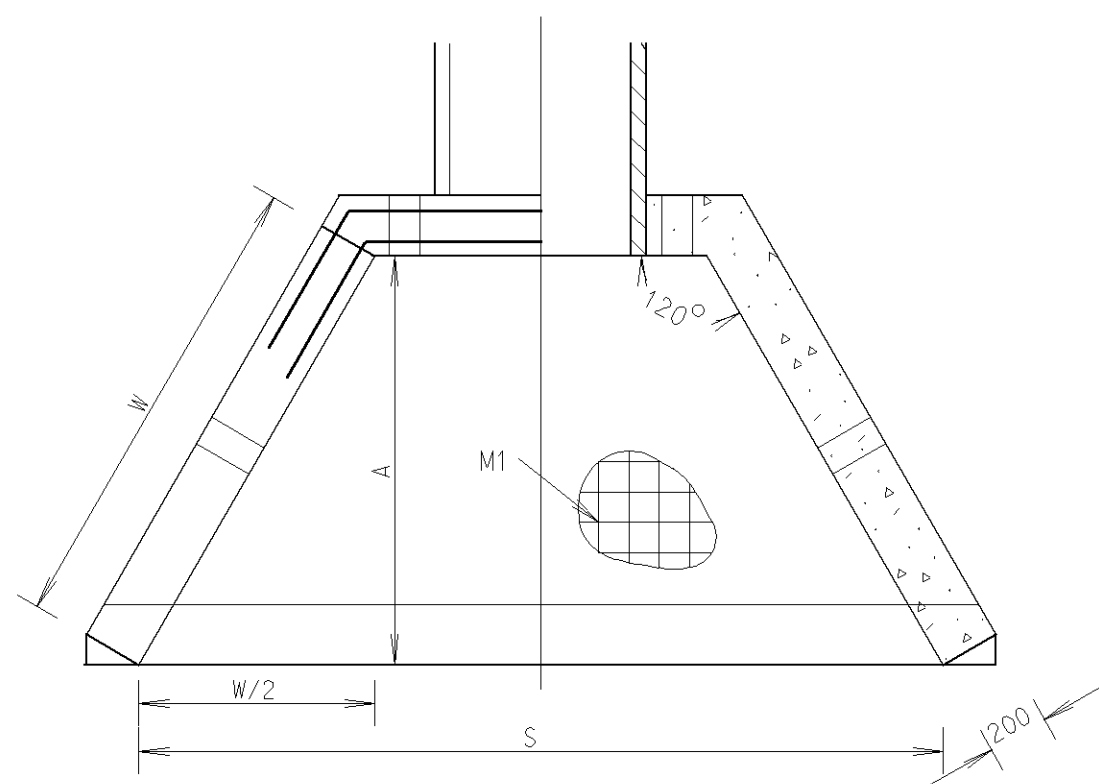


Plot Date: 31 Jan 2014 @ 14:03 Login Name: scouley Cad File: I:\ENVR\Projects\EN02754\Deliverables\Drawings\Civil\DWG\EN02754-C-551-553.dwg





ELEVATION



PLAN SECTION A-A

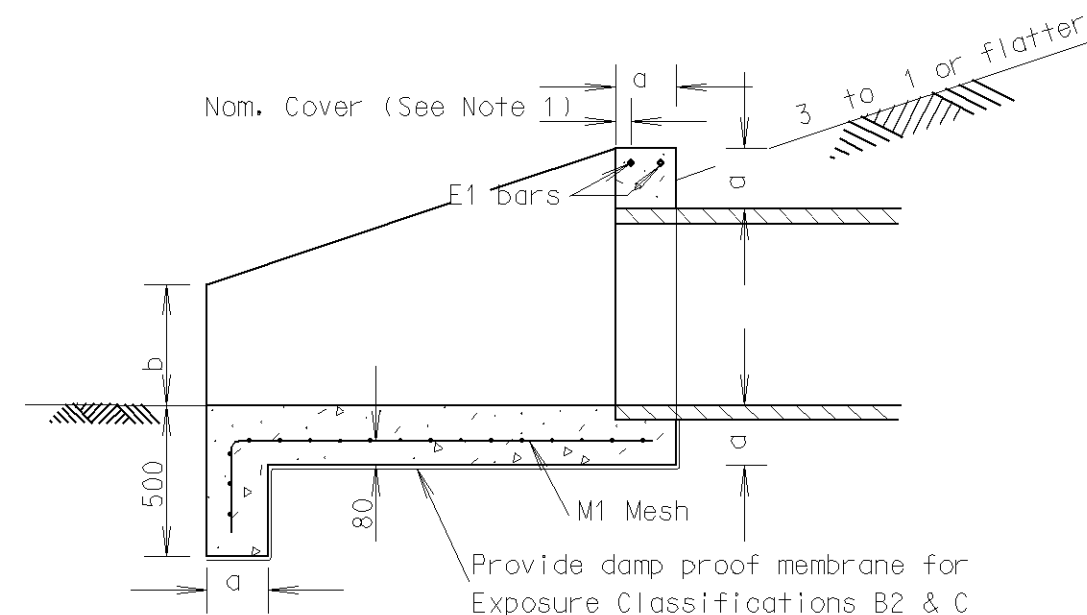
NOTES:

- Concrete strength grades shown are for exposure classification A2. Refer to AS3600-1994, Section 4 for concrete strength grade and cover to reinforcement for other exposure classifications.
- WEEPHOLES are to be provided at 1800 ctrs max. outlet only.
- STEEL: All bars to be Grade 400Y to AS1302-1991
- MESH: LAPS shall be made so that the two outermost wires of one fabric overlap the two outermost wires of the sheet being lapped.
- Spacing for Multiple Pipes as specified in MD.R11.A01.A

REFERENCED DOCUMENTS:

AS 1302-1991 Steel Reinforcing Bars for Concrete
AS 1304-1991 Welded Wire Reinforcing Fabric for Concrete
AS 3600-1994 Concrete Structures
RTA QA Model Specification Part R11 - Stormwater Drainage

All dimensions are in millimetres unless otherwise stated. [First Issued: June 1998]



LONGITUDINAL SECTION

DIMENSIONS									
		D	300	375	450	525	600	750	900
	A Apron depth (mm)	405	630	885	1 110	1 350	1 830	2 320	
	C Headwall length (mm)	770	850	940	1 020	1 100	1 270	1 450	
	S Apron width (mm)	1 240	1 580	1 960	2 300	2 660	3 380	4 130	
	W Wingwall length (mm)	470	730	1 020	1 280	1 560	2 110	2 680	
	a (mm)	150	150	150	150	150	150	150	
	b (mm)	300	300	300	300	400	400	400	
QUANTITIES IN 2 HEADWALLS	E1 BAR 12mm dia	L1 (mm)	885	965	1 055	1 135	1 215	1 385	1 565
		L2 (mm)	200	200	200	200	600	600	600
		No. Req	4	4	4	4	4	4	4
		Length (mm)	5 140	5 460	5 820	6 140	9 660	10 340	11 060
	M1 MESH	Mark	F81	F81	F81	F81	F81	F81	F81
		L1 (mm)	1 420	1 760	2 140	2 480	2 840	3 560	4 310
		L2 (mm)	745	970	1 225	1 450	1 690	2 210	2 660
		L3 (mm)	255	385	530	660	800	1 075	1 360
		No. Req	2	2	2	2	2	2	2
		Steel Reinforcement (kg)	18.5	26.3	36.9	48.0	64.1	97.7	136.2
		Concrete N25 (See Note 1) (m ³)	0.64	0.91	1.27	1.63	2.10	3.10	4.33

AMENDMENT DETAILS		DATE
Notes: R5 changed to R11		Sept 2000
Roads and Traffic Authority NSW		
CONCRETE HEADWALLS SINGLE CELL 300mm TO 900mm DIA. WITH CONCRETE APRON (3 TO 1 BATTER OR FLATTER)		
SCALE N.T.S.	No. OF SHEETS 1	SHEET No. 1
DRAWING NUMBER MD.R11.A16.A.1		



LEGEND



RECYCLED MULCH / TOP SOIL TO BE REUSED
WITHIN THIS AREA



PROPOSED STOCKPILE LOCATION
FOR FELLED TREES FOR POTENTIAL
REUSE

KEY PLAN



NOTES

Issue	Amendment	Date
A	Issue to Council	11.02.14

Developer



Chr Jordan Springs Blvd and Lakeside Pde
Jordan Springs NSW 2747
PO Box 1870, Penrith NSW 2751
p.02 8016 6500
ABN 19 087 876 364



Project



Drawing Title
Riparian Corridor
Recycled Materials
Use Plan

Scale AT A3 1:2250
Drawn by RS/CB
Drawing No. JS VC Recycled Materials use plan



Issue A



LEGEND



RECYCLED MULCH / TOP SOIL TO BE REUSED
WITHIN THIS AREA



PROPOSED STOCKPILE LOCATION
FOR FELLED TREES FOR POTENTIAL
REUSE

KEY PLAN



NOTES

Issue	Amendment	Date
A	Issue to Council	11.02.14

Developer



Chr Jordan Springs Blvd and Lakeside Pde
Jordan Springs NSW 2747
PO Box 1870, Penrith NSW 2751
p.02 8016 6500
ABN 19 087 876 364



Project



Drawing Title
Riparian Corridor
Recycled Materials
Use Plan

Scale AT A3 1:2250
Drawn by RS/CB
Drawing No. JS VC Recycled Materials use plan



Issue A