

PROPOSED SUBDIVISION - HILLVIEW EAST

442 LOUTH PARK ROAD - LOUTH PARK
DEVELOPMENT APPLICATION

CLIENT: NEWPRO25 PTY LTD

CONSENT AUTHORITY: MAITLAND CITY COUNCIL

DATE: NOVEMBER 2022

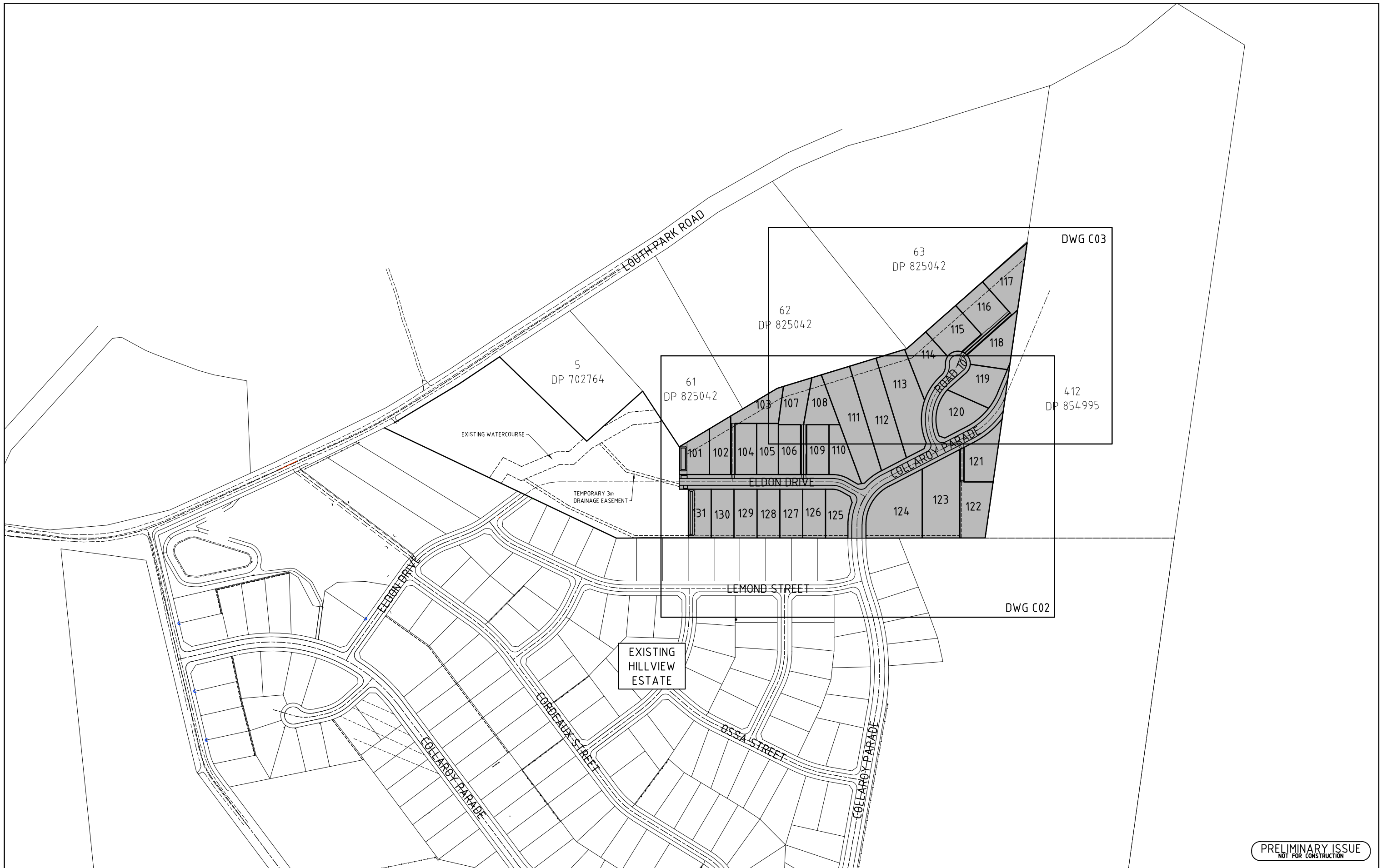
DRAWING SCHEDULE PROJECT No. 21360

DWG No.	SHEET TITLE	REV
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C03	PLAN SHEET (2 OF 2)	2
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C05	COLLAROY PARADE CROSS SECTIONS (1 OF 4)	1
C06	COLLAROY PARADE CROSS SECTIONS (2 OF 4)	1
C07	COLLAROY PARADE CROSS SECTIONS (3 OF 4)	1
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C10	ELDON DRIVE CROSS SECTIONS (1 OF 3)	1
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C27	LINEMARKING AND SIGNAGE PLAN	1
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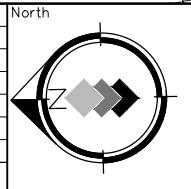
A.B.N. 92 086 017 745
1 HARTLEY DRIVE, THORNTON NSW 2322
PO BOX 3337, THORNTON NSW 2322
PHONE: (02) 4964 1811

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION



PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M	I.H	09.06.22



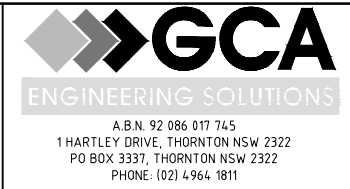
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1:500 (A1) 1:1000 (A3)

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Designed
A.M
Scale
1:500
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
21360C dC01 r1
A1 SHEET

Client



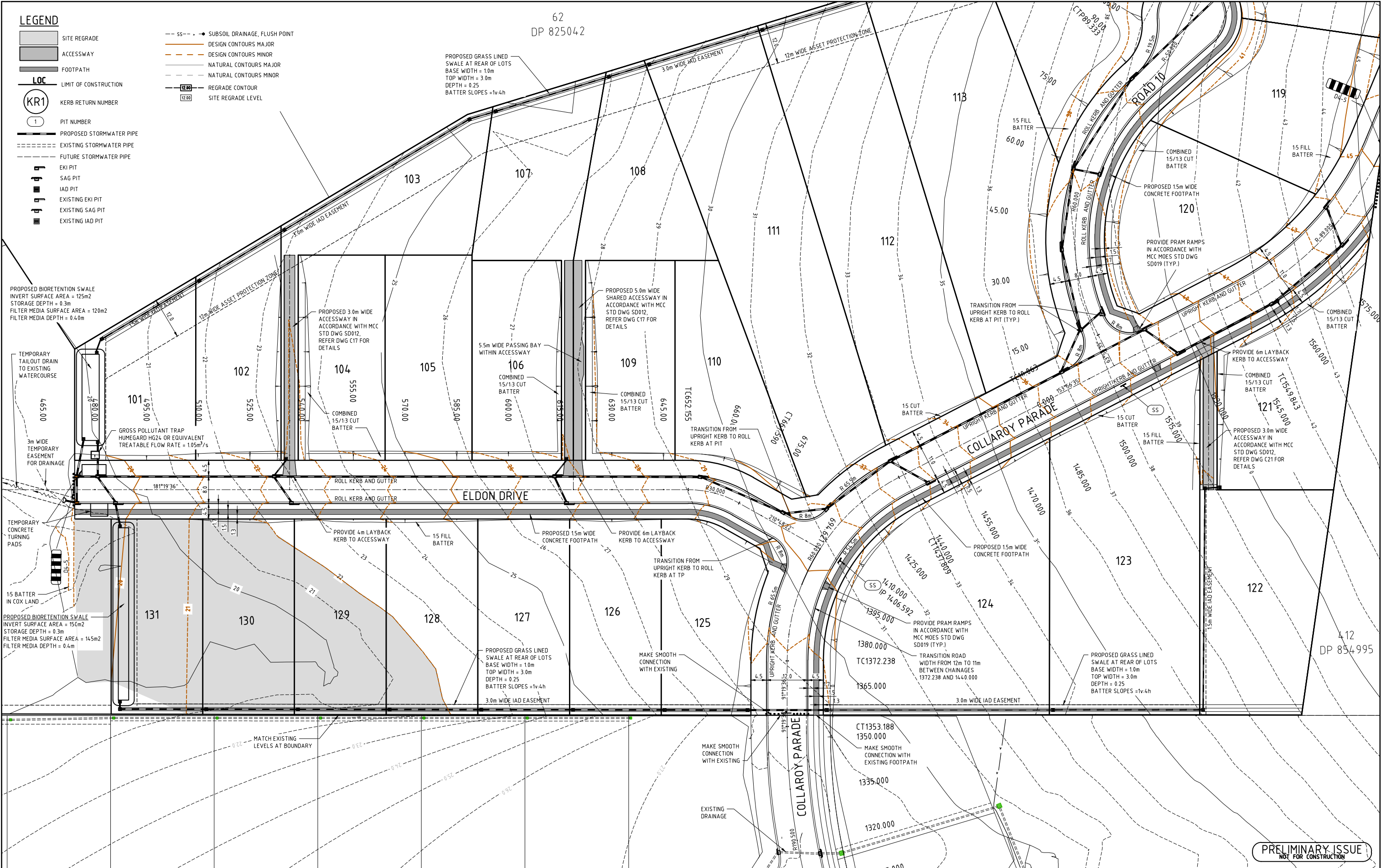
PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
GENERAL ARRANGEMENT PLAN

Project No	21360C
Drawing No	C01
Revision	1

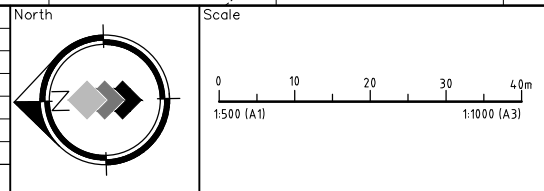
LEGEND

- SITE REGRADE
- ACCESSWAY
- FOOTPATH
- LIMIT OF CONSTRUCTION
- KERB RETURN NUMBER
- PIT NUMBER
- PROPOSED STORMWATER PIPE
- EXISTING STORMWATER PIPE
- FUTURE STORMWATER PIPE
- EKI PIT
- SAG PIT
- IAD PIT
- EXISTING EKI PIT
- EXISTING SAG PIT
- EXISTING IAD PIT

- SUBSOIL DRAINAGE, FLUSH POINT
- DESIGN CONTOURS MAJOR
- DESIGN CONTOURS MINOR
- NATURAL CONTOURS MAJOR
- NATURAL CONTOURS MINOR
- REGRADE CONTOUR
- SITE REGRADE LEVEL



Amendment	Description	Drawn	App'd	Date
2	GENERAL AMENDMENTS	A.M	I.H	04.11.22
1	ORIGINAL ISSUE	A.M	I.H	08.06.22



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Designed
A.M
 Scale
1:500
 Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

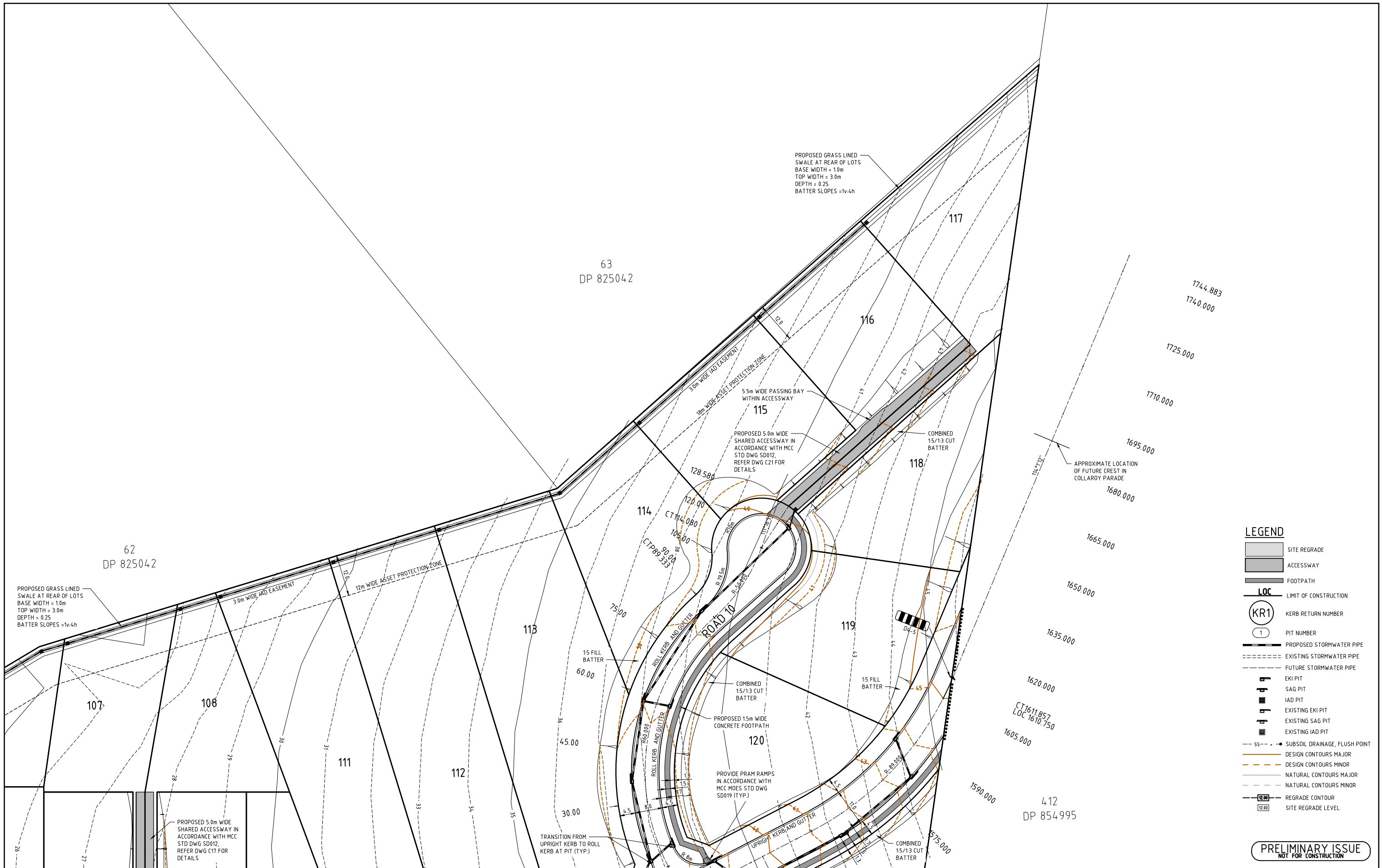
Cad Reference
21360C dC02 r2
 Client



PROPOSED SUBDIVISION
 442 LOUTH PARK ROAD
 LOUTH PARK - HILLVIEW EAST
 PLAN SHEET (1 OF 2)

Project No	21360C
Drawing No	C02
Revision	2

PRELIMINARY ISSUE
 NOT FOR CONSTRUCTION

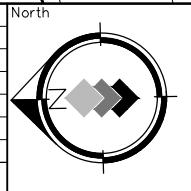


LEGEND

- SITE REGRADE
- ACCESSWAY
- FOOTPATH
- LOC LIMIT OF CONSTRUCTION
- KR1 KERB RETURN NUMBER
- 1 PIT NUMBER
- PROPOSED STORMWATER PIPE
- EXISTING STORMWATER PIPE
- FUTURE STORMWATER PIPE
- EKI PIT
- SAG PIT
- IAD PIT
- EXISTING EKI PIT
- EXISTING SAG PIT
- EXISTING IAD PIT
- SUBSOIL DRAINAGE, FLUSH POINT
- DESIGN CONTOURS MAJOR
- DESIGN CONTOURS MINOR
- NATURAL CONTOURS MAJOR
- NATURAL CONTOURS MINOR
- REGRADE CONTOUR
- SITE REGRADE LEVEL

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

Amendment	Description	Drawn	App'd	Date
2	GENERAL AMENDMENTS	A.M	I.H	04.11.22
1	ORIGINAL ISSUE	A.M	I.H	08.06.22



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A.M
Scale
1:500
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
21360C dC03 r2
A1 SHEET

Client



PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
PLAN SHEET (2 OF 2)

Project No 21360C	
Drawing No C03	Revision 2

HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m) VC 150.00

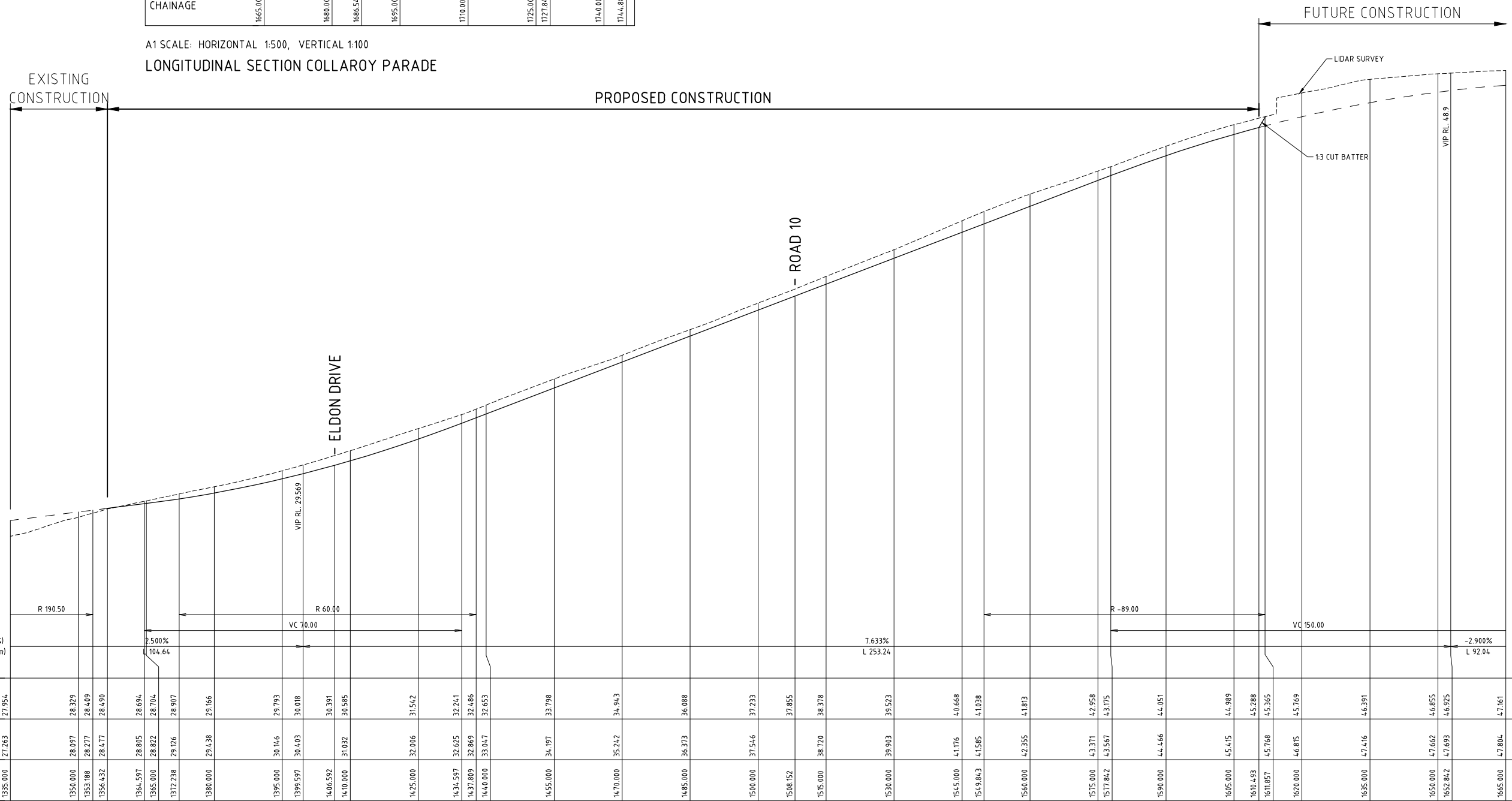
VERTICAL GEOMETRY GRADE (%) -2.900%

VERTICAL GEOMETRY LENGTH (m) L 92.04

DATUM RL = 40.00

DESIGN SURFACE	47.161	47.309	47.324	47.299	47.131	46.805	46.725	46.373	46.231
NATURAL SURFACE	47.804	47.711	47.584	47.464	47.238	46.877	46.803	46.414	46.231
CHAINAGE	1665.000	1680.000	1686.547	1695.000	1710.000	1725.000	1727.842	1740.000	1744.883

A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
LONGITUDINAL SECTION COLLARROY PARADE



HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m) R 190.50

VERTICAL GEOMETRY GRADE (%) 2.500%

VERTICAL GEOMETRY LENGTH (m) L 104.64

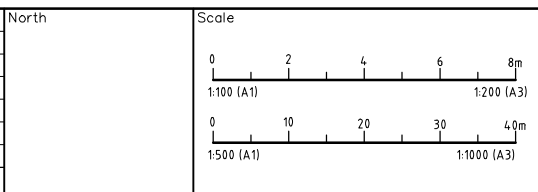
DATUM RL = 21.00

DESIGN SURFACE	27.954	28.329	28.409	28.490	28.694	28.704	28.907	29.166	30.018	30.391	30.585	31.542	32.241	32.486	32.653	33.798	34.943	36.088	37.233	37.855	38.378	39.523	40.668	41.038	41.813	42.958	43.175	44.051	44.989	45.288	45.365	45.769	46.391	46.855	46.925	47.161
NATURAL SURFACE	27.263	28.097	28.277	28.477	28.694	28.704	28.907	29.166	30.018	30.391	30.585	31.542	32.241	32.486	32.653	33.798	34.943	36.088	37.233	37.855	38.378	39.523	40.668	41.038	41.813	42.958	43.175	44.051	44.989	45.288	45.365	45.769	46.391	46.855	46.925	47.161
CHAINAGE	1335.000	1350.000	1353.188	1356.432	1364.597	1365.000	1372.238	1380.000	1399.597	1406.592	1410.000	1425.000	1434.597	1437.809	1440.000	1455.000	1470.000	1485.000	1500.000	1508.152	1515.000	1530.000	1545.000	1549.843	1560.000	1575.000	1577.842	1590.000	1605.000	1610.493	1611.857	1620.000	1635.000	1650.000	1652.842	1665.000

A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
LONGITUDINAL SECTION COLLARROY PARADE

PRELIMINARY ISSUE
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1	ORIGINAL ISSUE	A.M	I.H	08.06.22
Amendment	Description	Drawn	App'd	Date



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Designed
A.M

Cad Reference
21360C dC04 r1

Scale
1:500H/1:100V

A1 SHEET

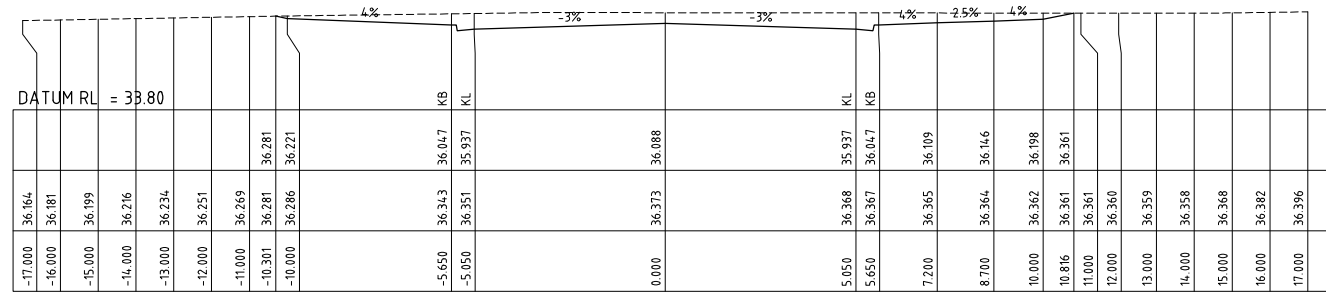
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Client

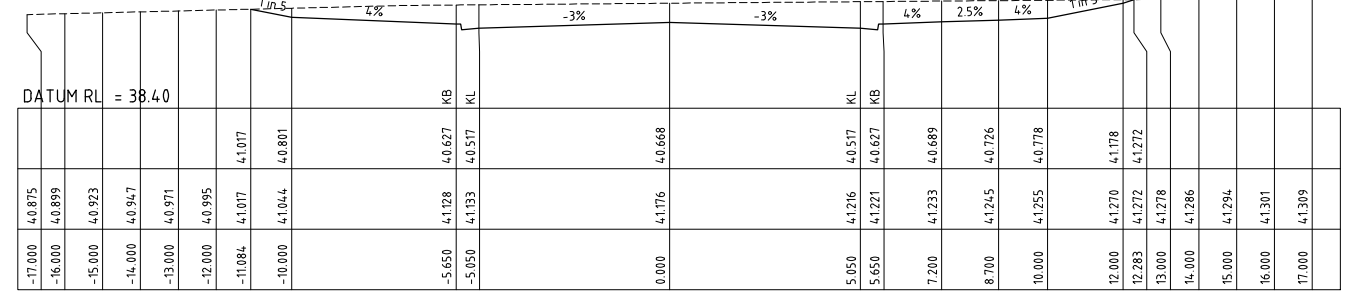


PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
COLLARROY PARADE LONGITUDINAL SECTION

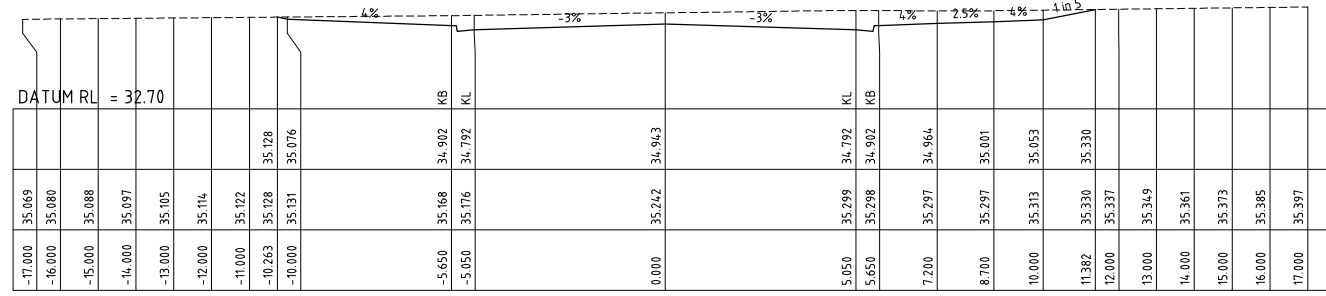
Project No	21360C
Drawing No	C04
Revision	1



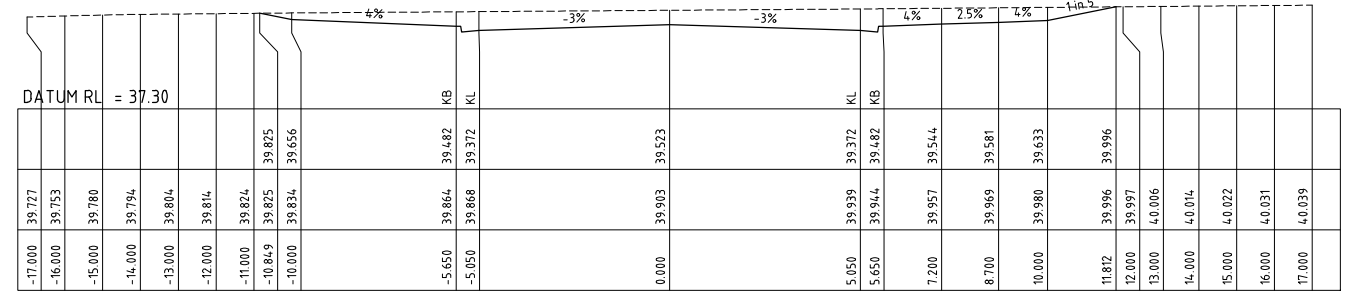
CH 1485.000



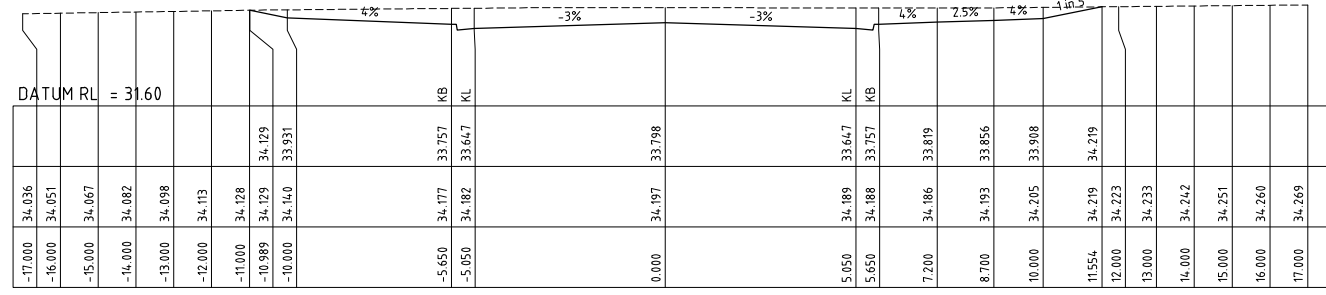
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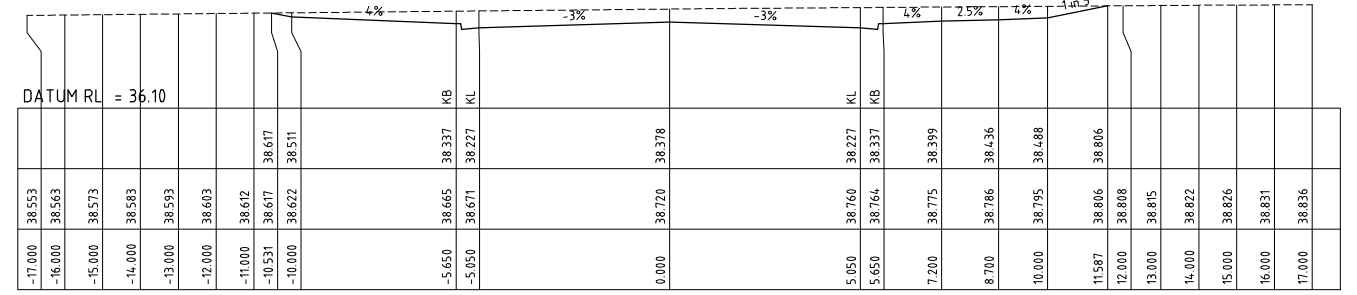
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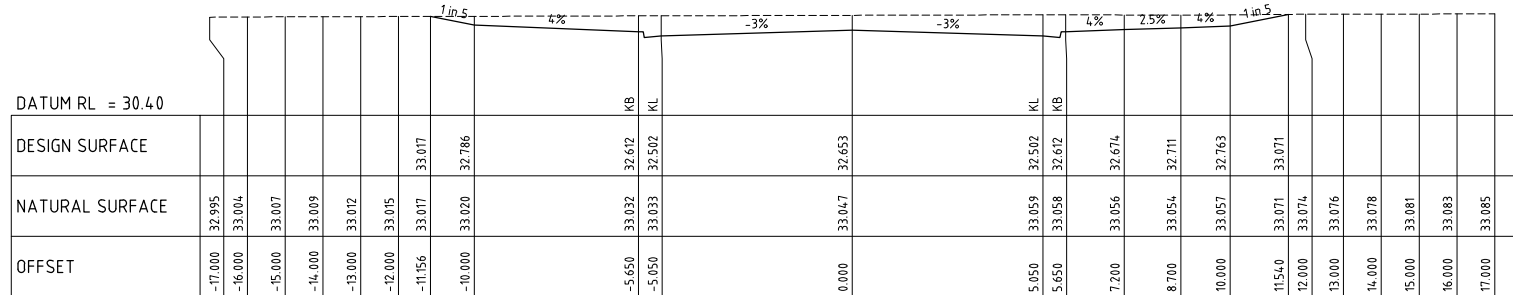
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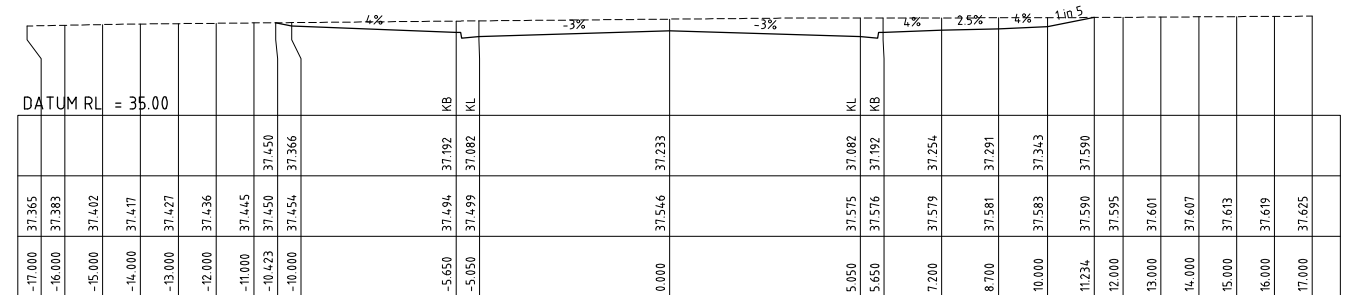
CH 1455.000



CH 1515.000



CH 1440.000



CH 1500.000

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

1	ORIGINAL ISSUE				
Amendment	Description	Drawn	App'd	Date	

North				
Scale				
0	2	4	6	8m
1:100 (A1)				1:200 (A3)

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Designed
A.M
Scale
1:100
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

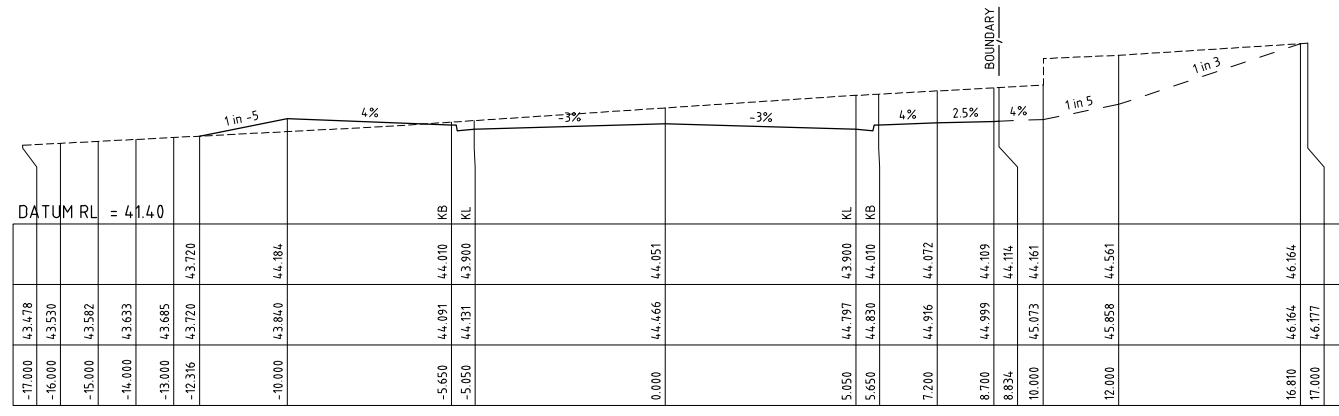
Cad Reference
21360C dC06 r1
A1 SHEET

Client

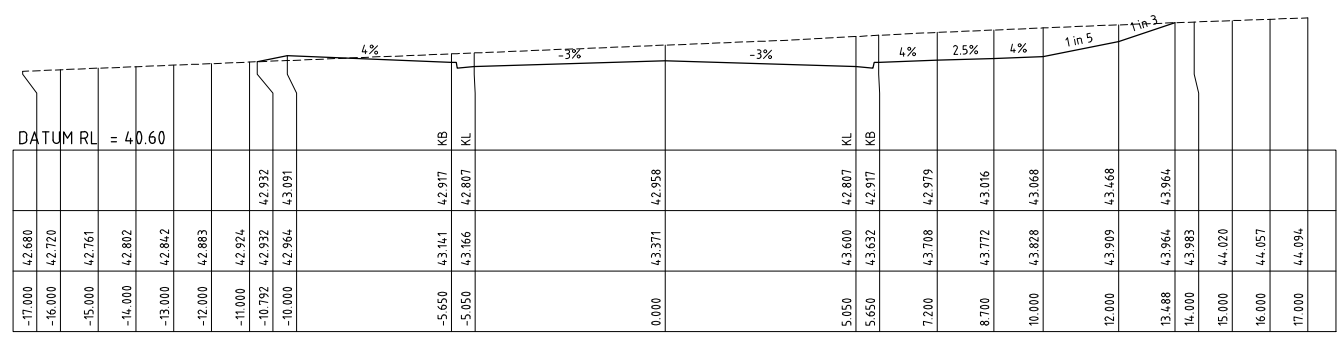


PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
COLLARROY PARADE CROSS SECTIONS (2 OF 4)

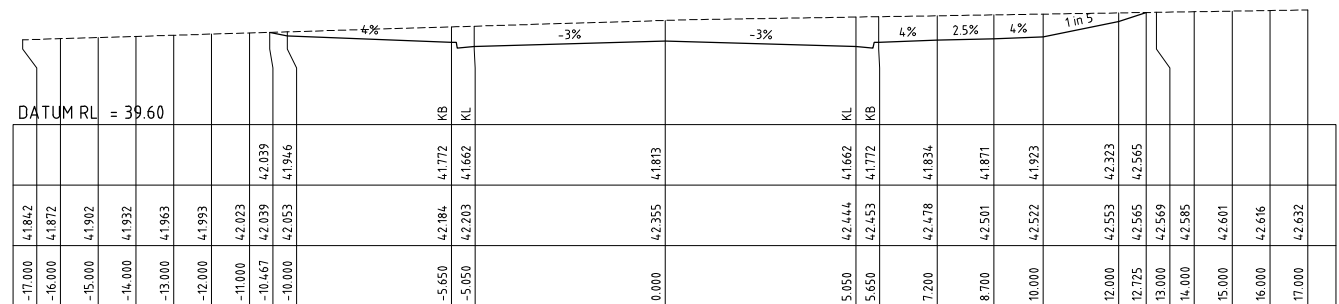
Project No
21360C
Drawing No
C06
Revision
1



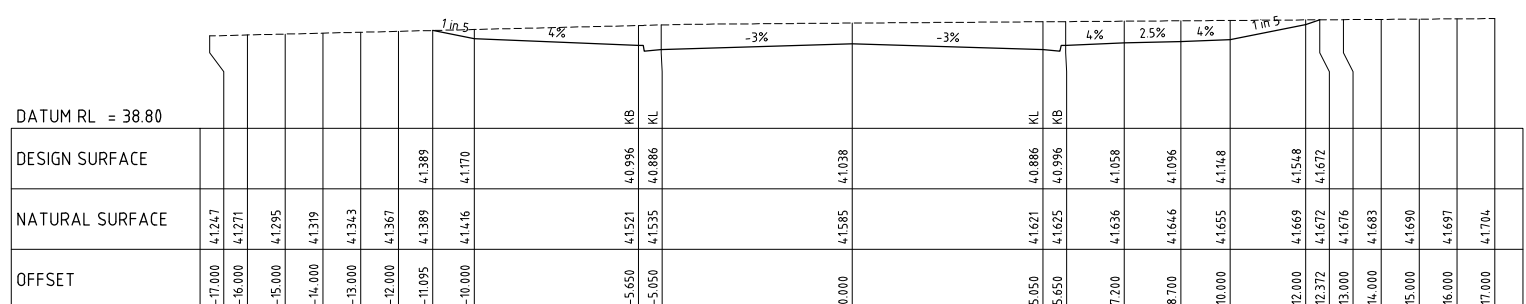
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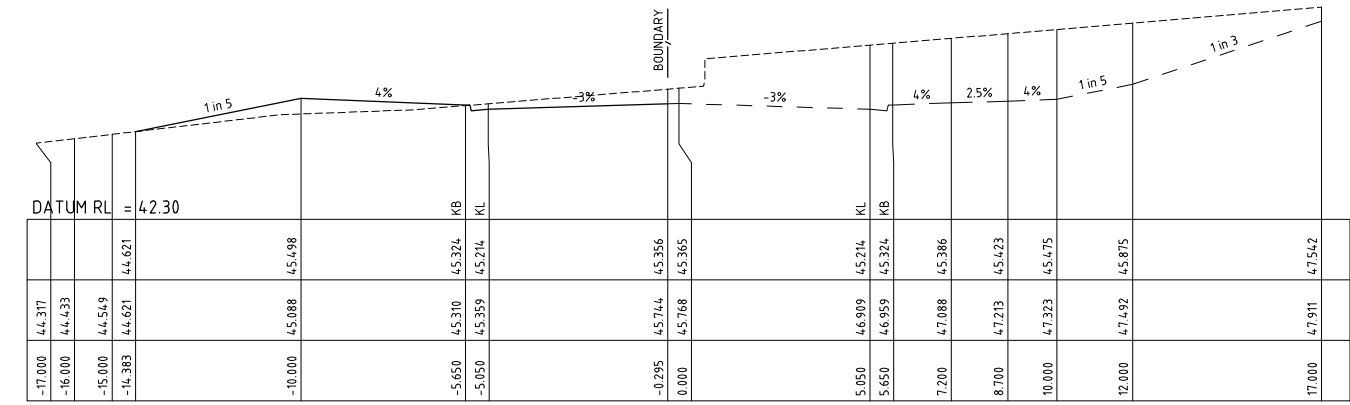
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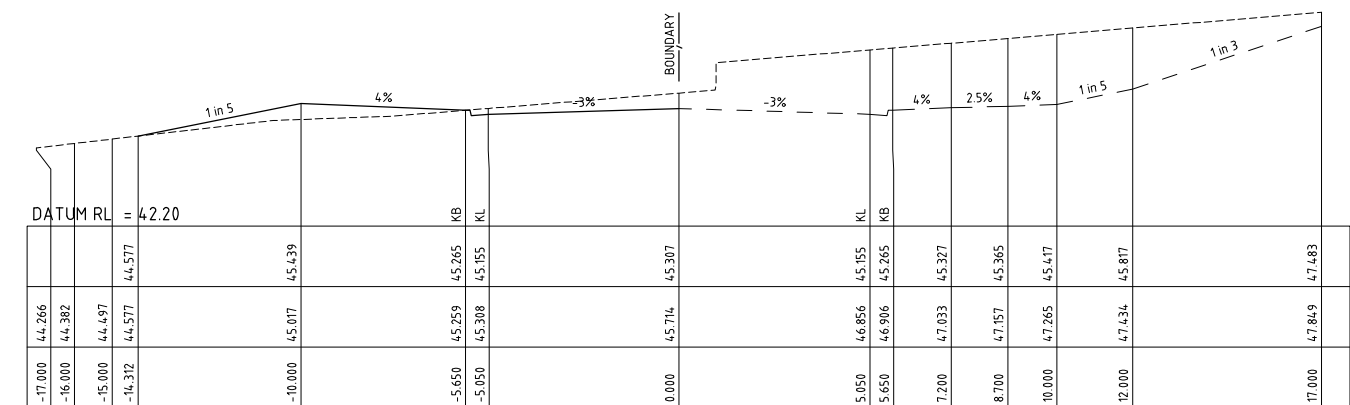
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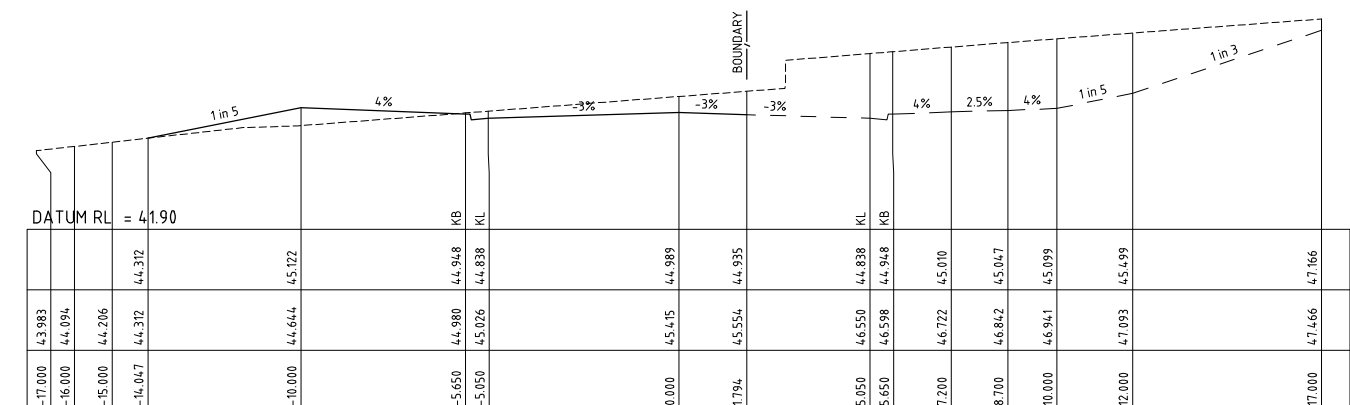
CH 1549.843



CH 1611.857



CH 1610.749

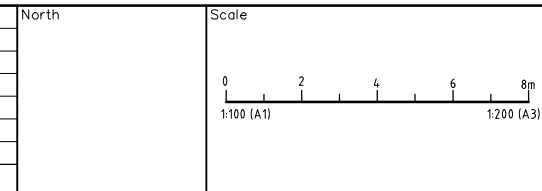


CH 1605.000

	DESIGN SURFACE	NATURAL SURFACE	OFFSET
-17.000	41.842	41.247	-17.000
-16.000	41.872	41.271	-16.000
-15.000	41.902	41.295	-15.000
-14.000	41.932	41.319	-14.000
-13.000	41.963	41.343	-13.000
-12.000	41.993	41.367	-12.000
-11.000	42.023	41.389	-11.000
-10.467	42.039	41.416	-10.467
-10.000	42.053	41.394	-10.000
0.000	42.355	41.813	0.000
5.050	42.444	41.662	5.050
5.650	42.453	41.772	5.650
7.200	42.478	41.834	7.200
8.700	42.501	41.871	8.700
10.000	42.522	41.923	10.000
12.000	42.553	42.323	12.000
12.725	42.565	42.565	12.725
13.000	42.569	41.976	13.000
14.000	42.585	41.683	14.000
15.000	42.601	41.690	15.000
16.000	42.616	41.697	16.000
17.000	42.632	41.704	17.000

PRELIMINARY ISSUE
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Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	AM	IH	08.06.22



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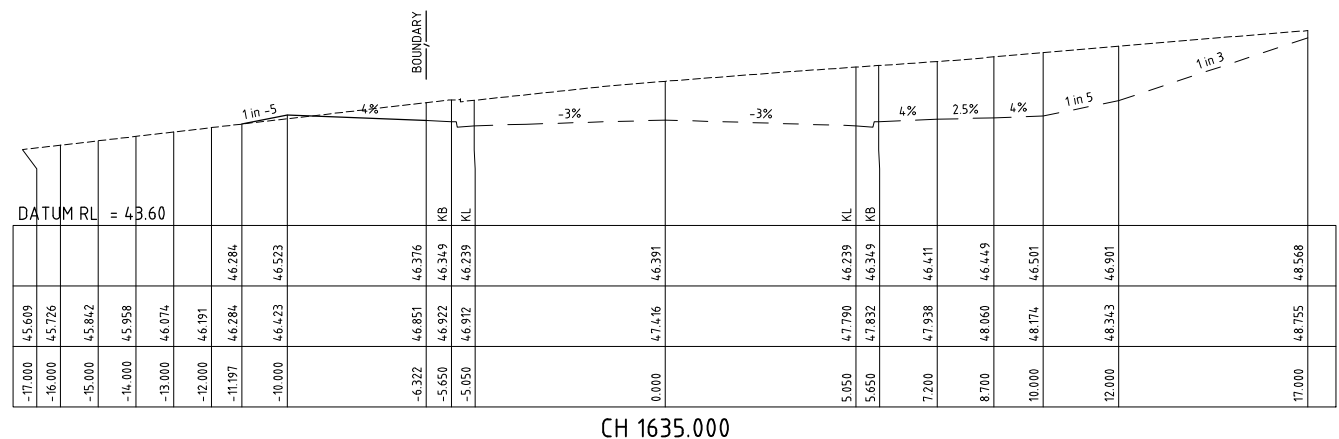
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A.M
Scale
1:100
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
21360C dC07 r1
Client

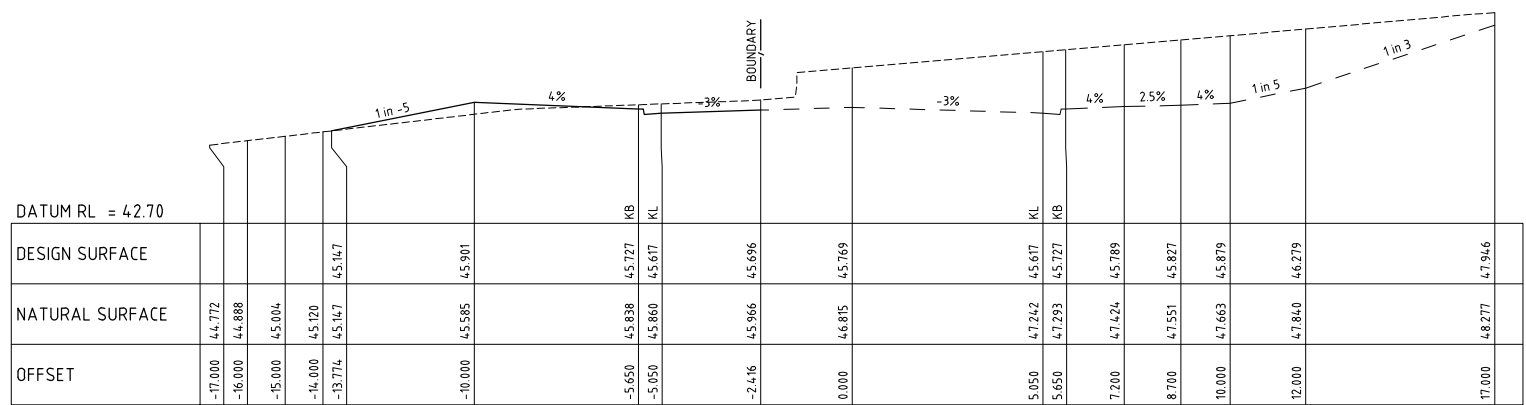


PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
COLLARROY PARADE CROSS SECTIONS (3 OF 4)

Project No 21360C	
Drawing No C07	Revision 1



CH 1635.000



CH 1620.000

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	AM	IH	08.06.22

North
Scale
0 2 4 6 8m
1:100 (A1) 1:200 (A3)

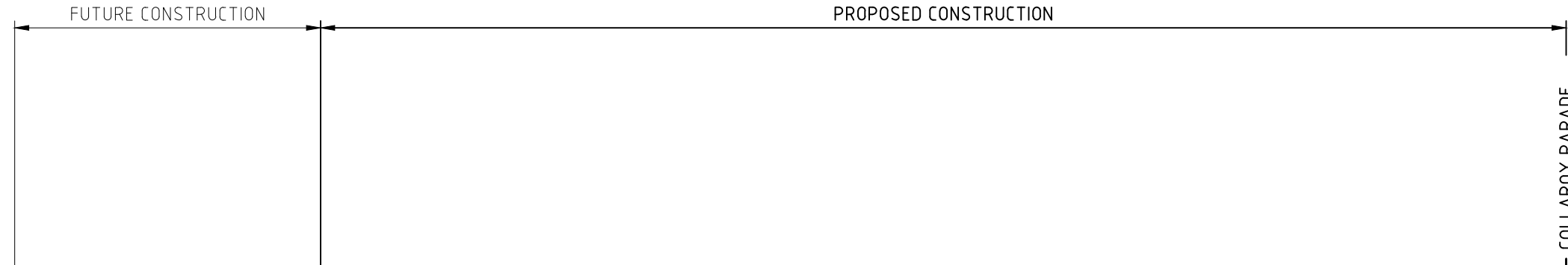
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Designed A.M	Cad Reference 21360C dC08 r1	Client
Scale 1:100	A1 SHEET	
Project Approval IAN HILL (B.E) Consulting Civil Engineer		

GCA
ENGINEERING SOLUTIONS
A.B.N. 92 086 017 745
1 HARTLEY DRIVE, THORNTON NSW 2322
PO BOX 3337, THORNTON NSW 2322
PHONE: (02) 4964 1811

PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
COLLARROY PARADE CROSS SECTIONS (4 OF 4)

Project No 21360C
Drawing No C08
Revision 1



HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 VERTICAL GEOMETRY LENGTH (m)

LONGITUDINAL SECTION ROAD 2

CHAINAGE	DESIGN SURFACE	NATURAL SURFACE
420.000	17.724	15.640
434.591	17.430	16.715
435.000	17.438	16.745
449.591	17.869	17.884
450.000	17.885	17.913
464.591	18.558	18.891
465.000	18.580	18.918
474.150	19.077	19.321
480.000	19.394	19.502
495.000	20.208	20.175
510.000	21.022	21.213
525.000	21.836	22.136
540.000	22.650	23.086
555.000	23.464	23.823
570.000	24.278	24.683
585.000	25.092	25.485
600.000	25.906	26.320
615.000	26.720	27.063
622.000	27.100	27.459
630.000	27.534	27.910
645.000	28.348	28.658
652.055	28.737	29.017
652.805	28.772	29.050
660.000	29.141	29.421
667.590	29.486	29.784
667.805	29.495	29.793
675.000	29.777	30.098
682.805	30.036	30.369
690.000	30.252	30.643
694.621	30.391	30.819

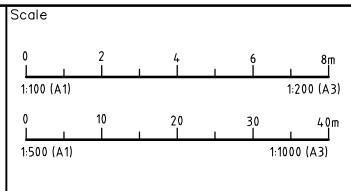
A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100

LONGITUDINAL SECTION ELDON DRIVE

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M	I.H	08.06.22

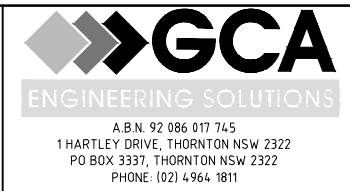
North



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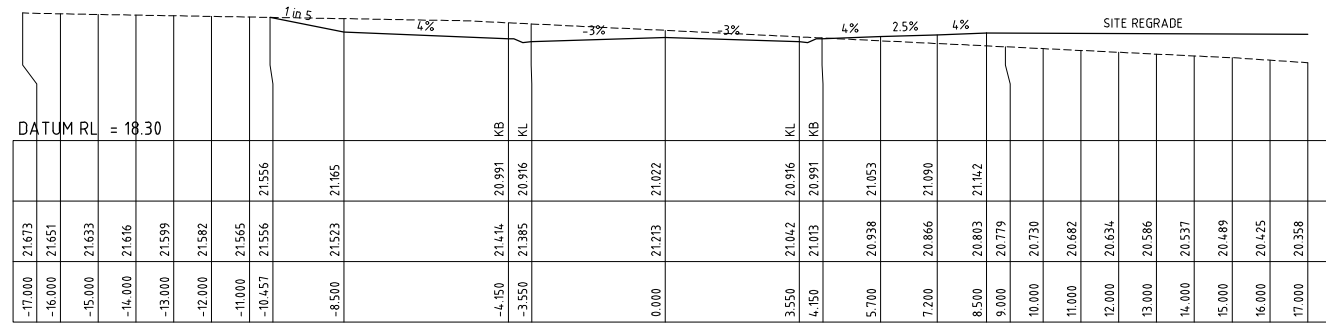
Designed
A.M
 Scale
1:500H/1:100V
 Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
21360C dC09 r1
 Client

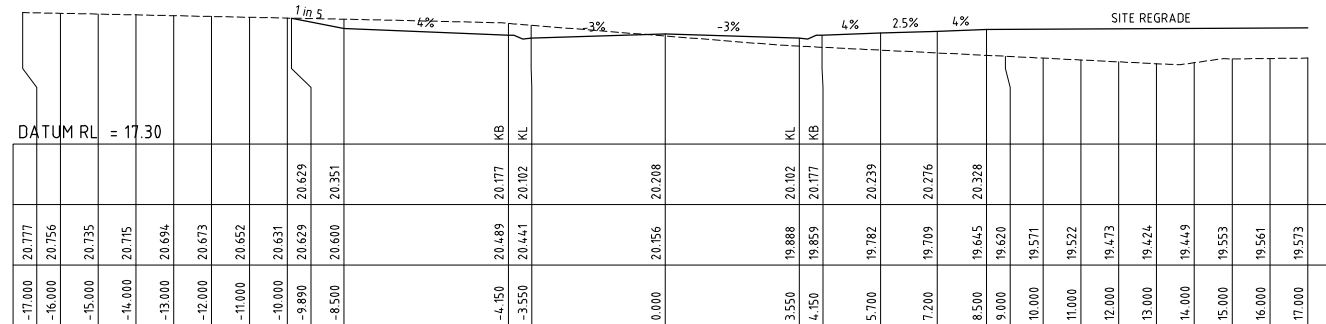


PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
 ELDON DRIVE LONGITUDINAL SECTION

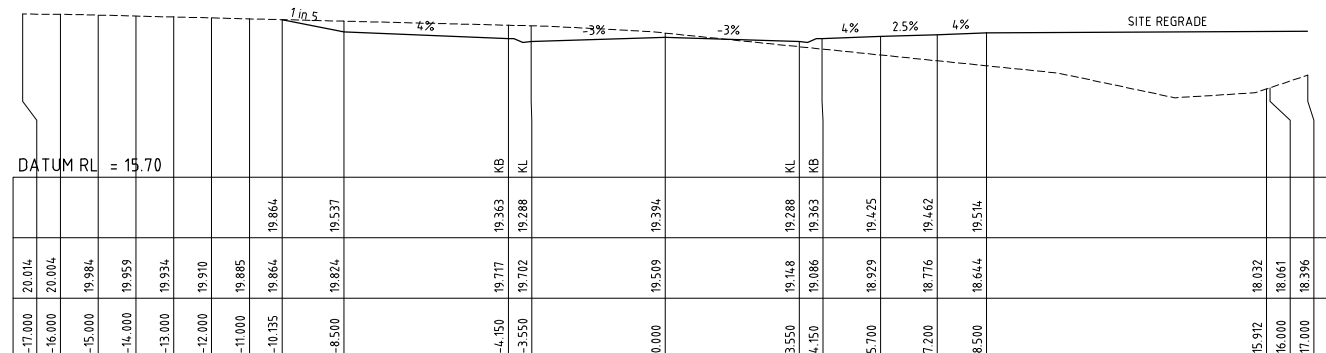
Project No	21360C
Drawing No	C09
Revision	1



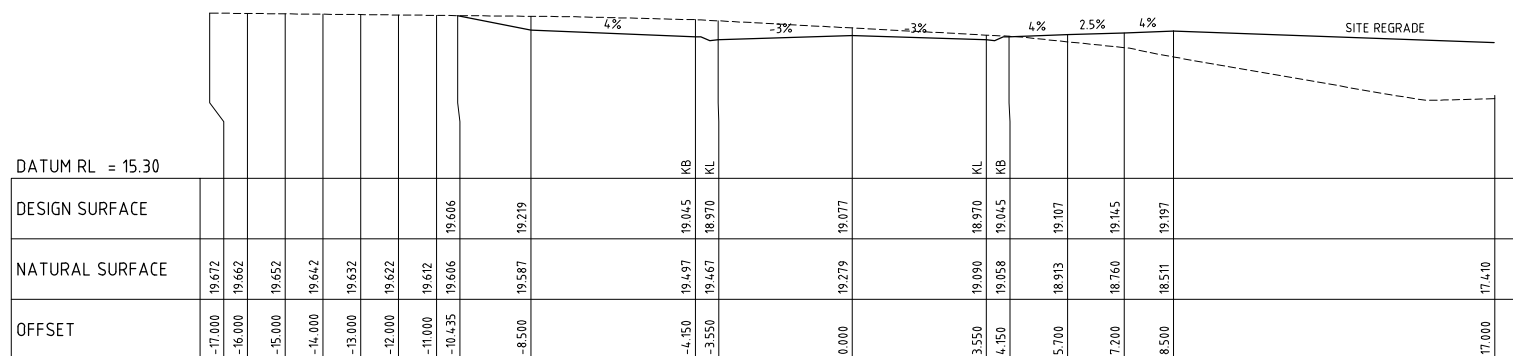
CH 510.000



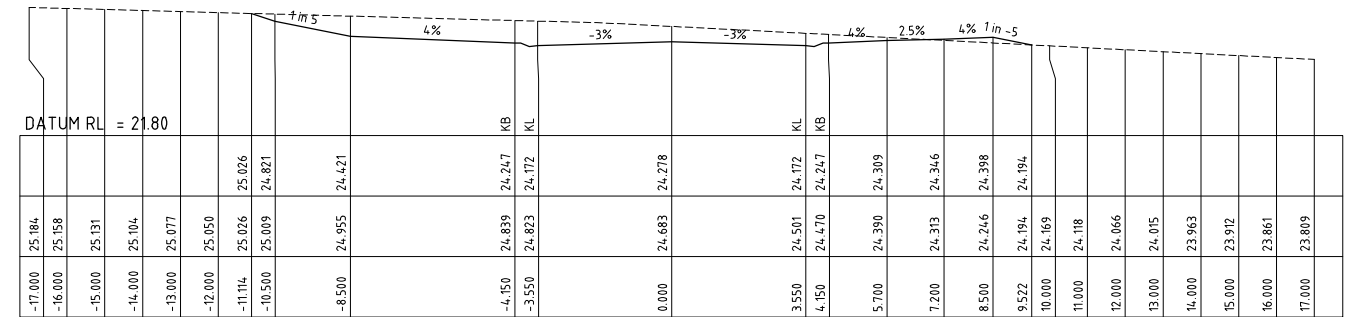
CH 495.000



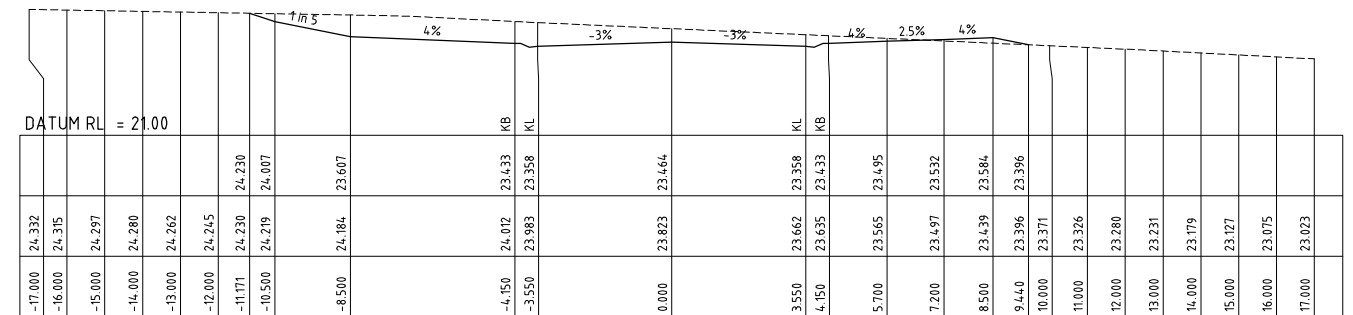
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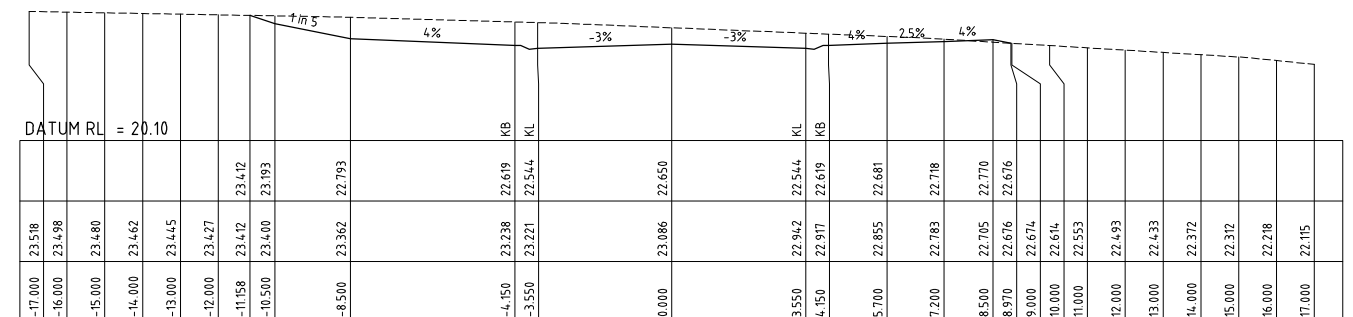
CH 474.150



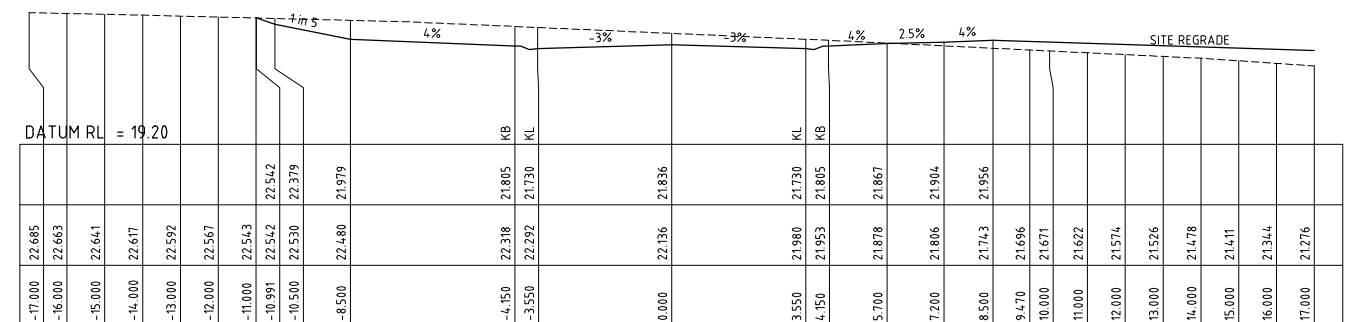
CH 570.000



CH 555.000



CH 540.000



CH 525.000

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

Amendment		Description		Drawn	App'd	Date
1	ORIGINAL ISSUE			AM	IH	08.06.22

North	
Scale	
0 2 4 6 8m	
1:100 (A1) 1:200 (A3)	

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Designed
A.M
Scale
1:100
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

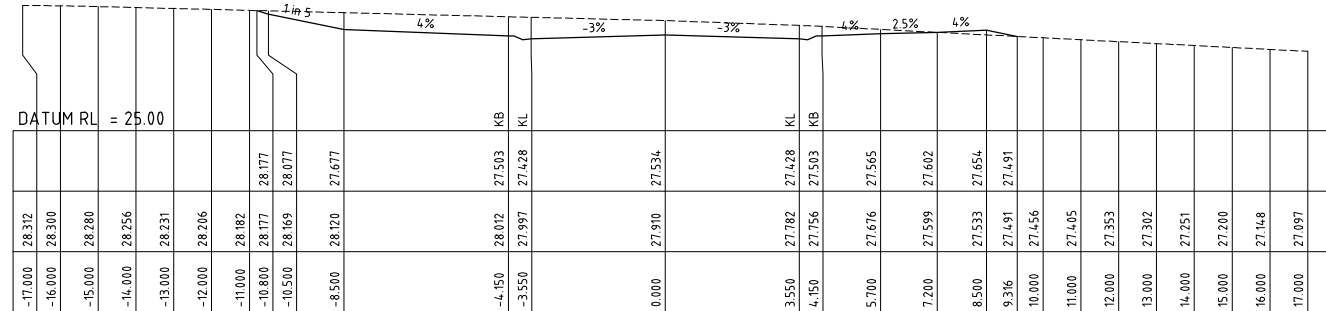
Cad Reference
21360C dC10 r1
A1 SHEET

Client

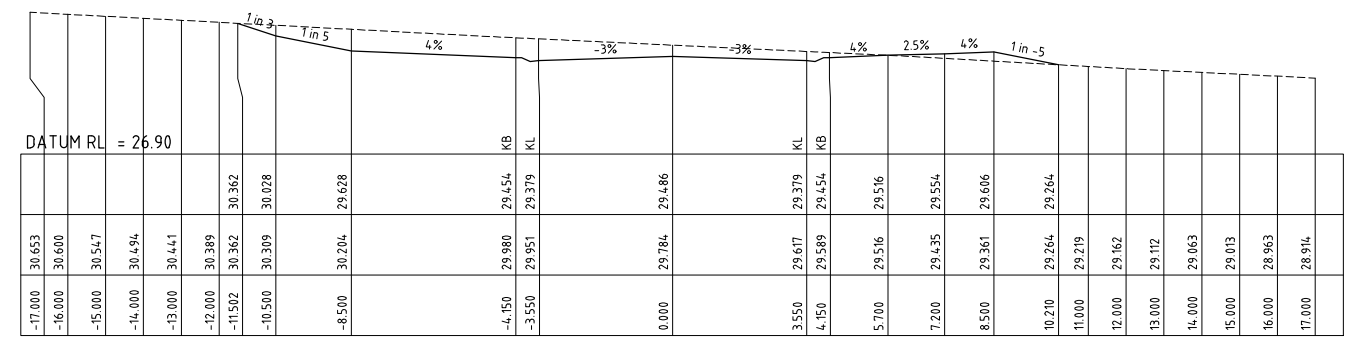


PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
ELDON DRIVE CROSS SECTIONS (1 OF 3)

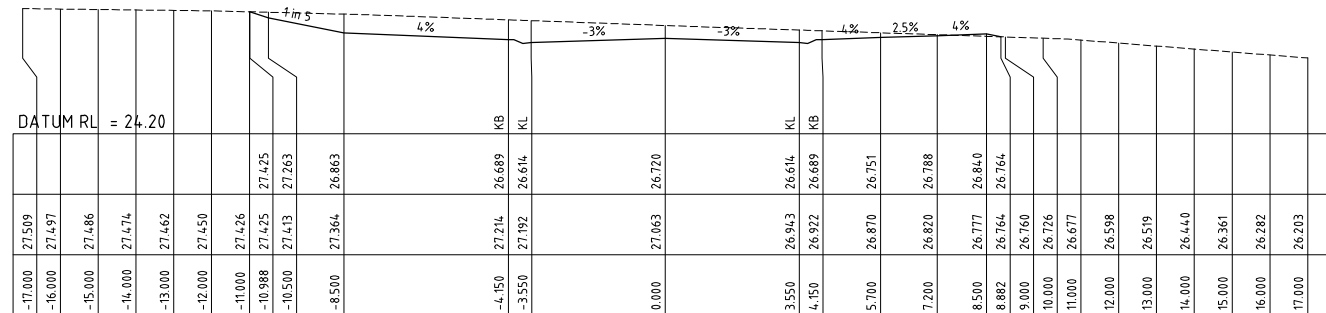
Project No		21360C
Drawing No	C10	Revision
		1



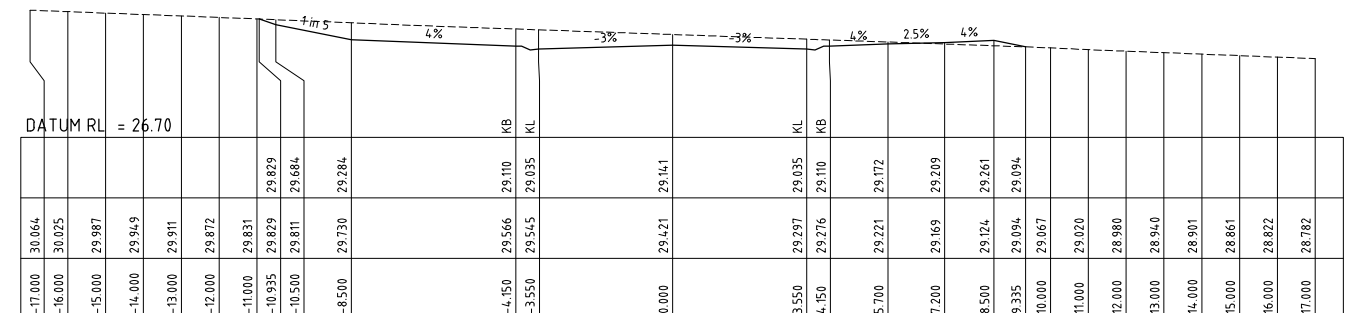
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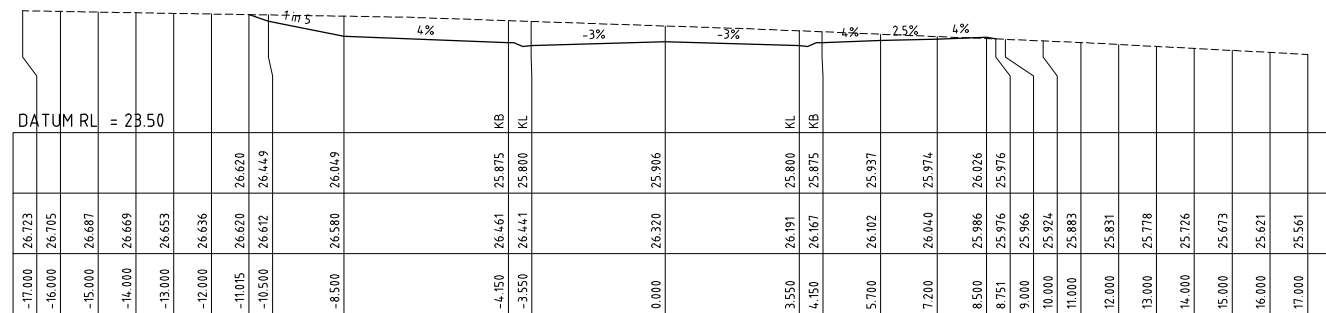
CH 667.590



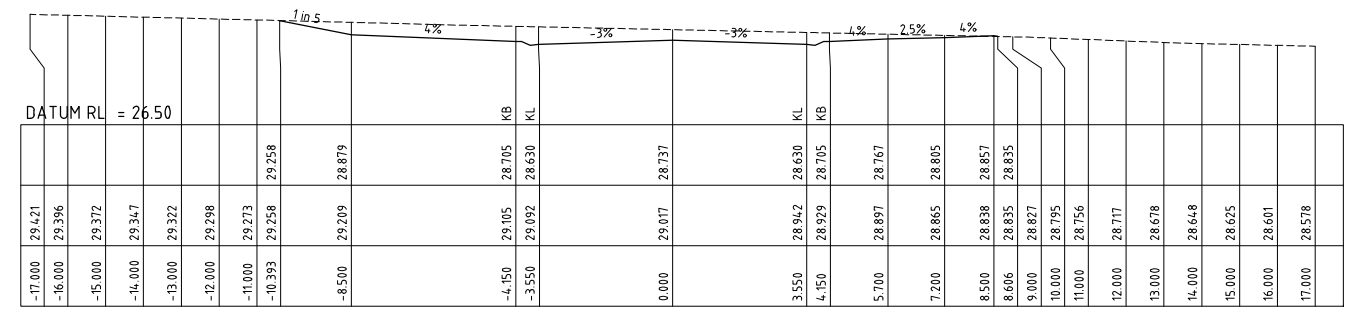
CH 615.000



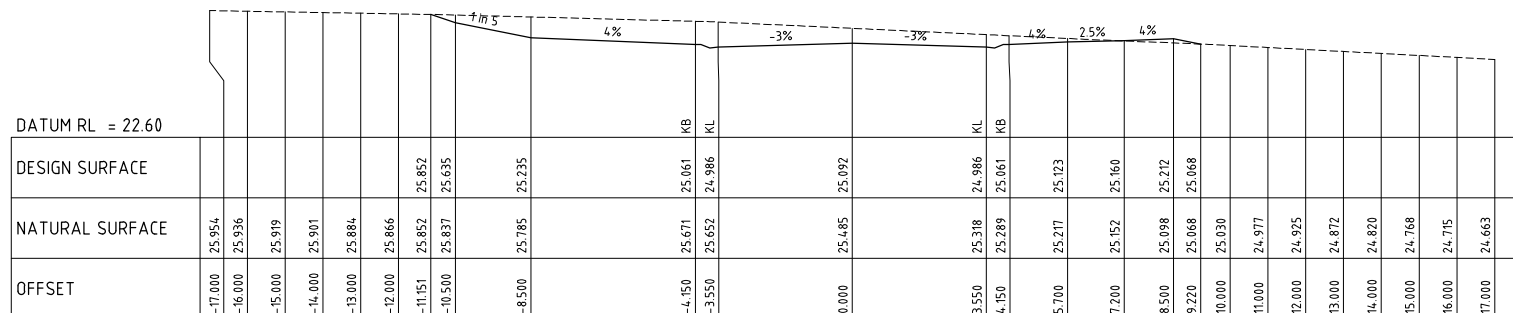
CH 660.000



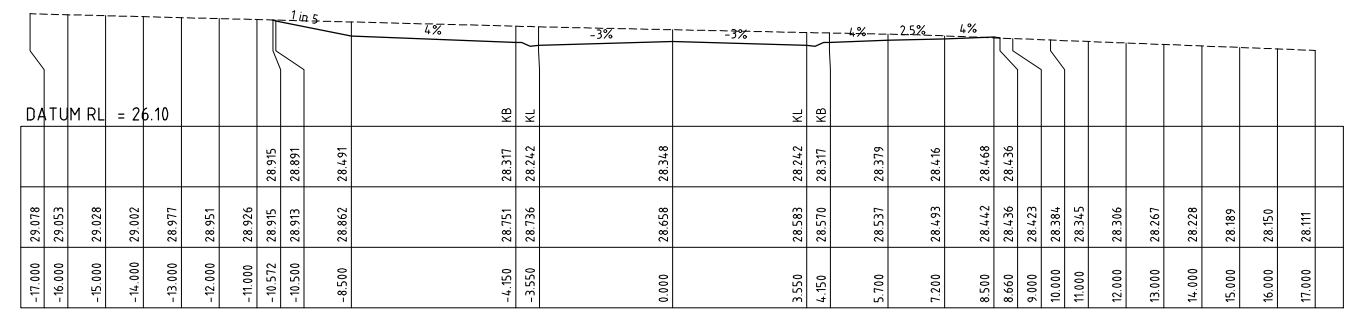
CH 600.000



CH 652.155



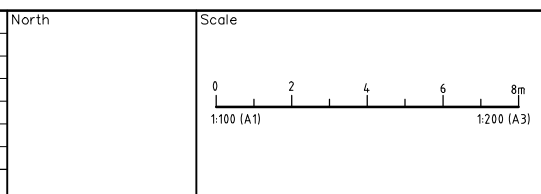
CH 585.000



CH 645.000

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Amendment		Description	Drawn	App'd	Date
1	ORIGINAL ISSUE		AM	IH	08.06.22



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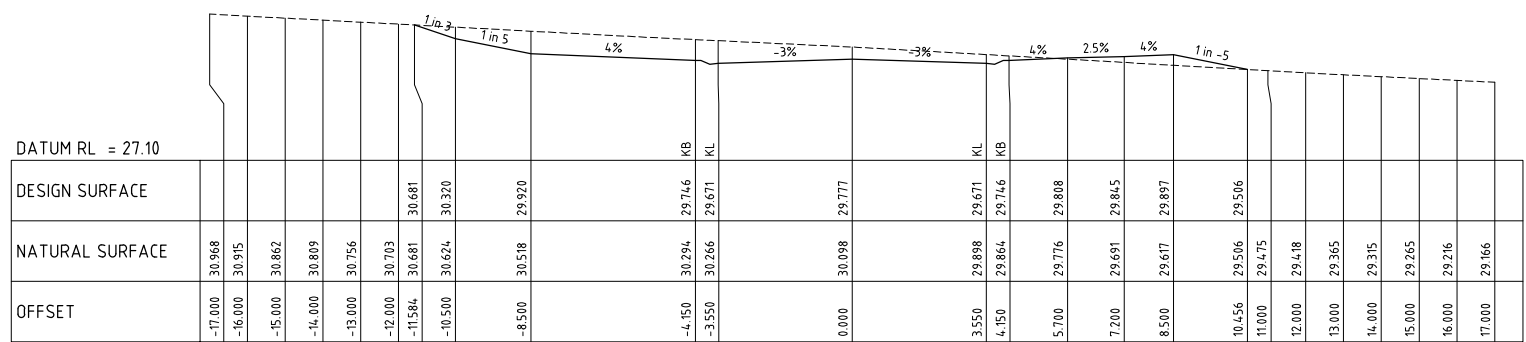
Designed
A.M
Scale
1:100
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
21360C dC11 r1
A1 SHEET



PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
ELDON DRIVE CROSS SECTIONS (2 OF 3)

Project No		21360C
Drawing No	C11	Revision
		1

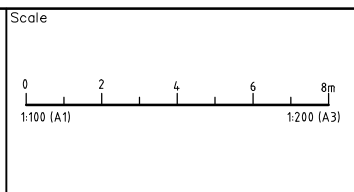


CH 675.000

PRELIMINARY ISSUE
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Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	AM	IH	08.06.22

North



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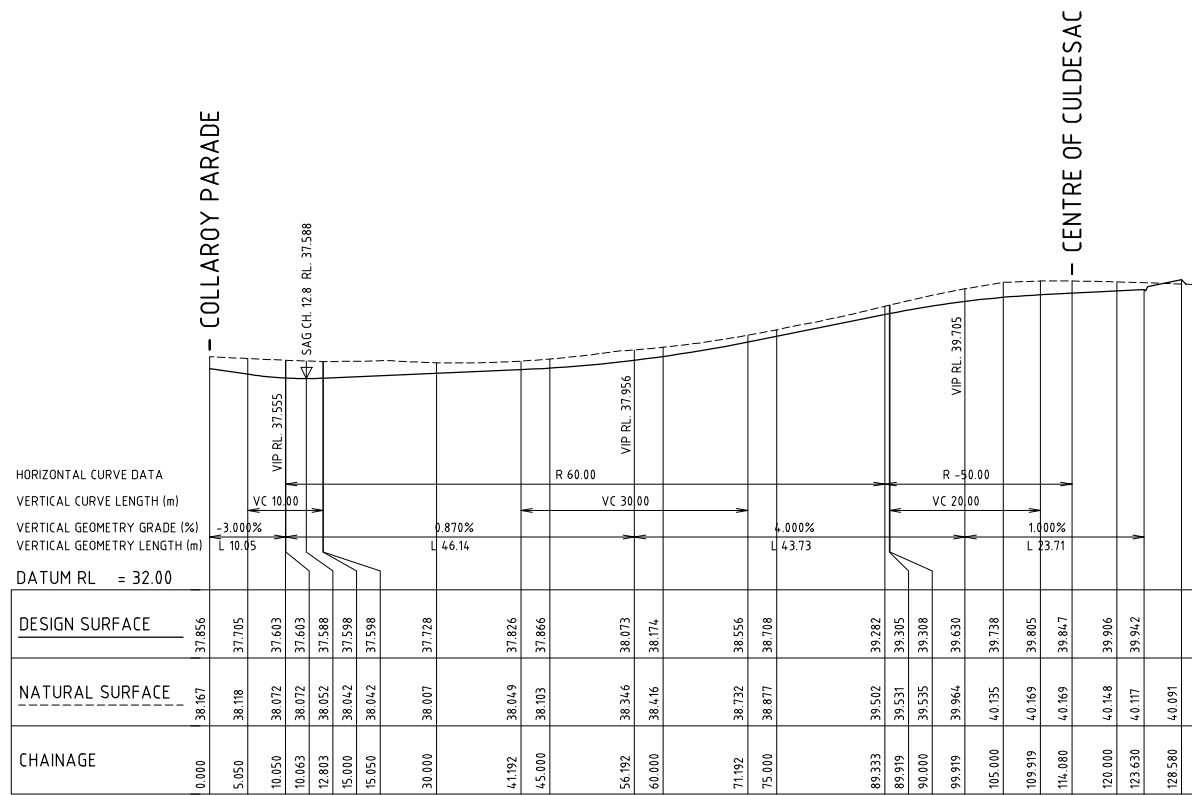
Designed A.M	Cad Reference 21360C dC12 r1
Scale 1:100	A1 SHEET
Project Approval IAN HILL (B.E) Consulting Civil Engineer	

Client

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PHONE: (02) 4964 1811

PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
ELDON DRIVE CROSS SECTIONS (3 OF 3)

Project No 21360C
Drawing No C12
Revision 1

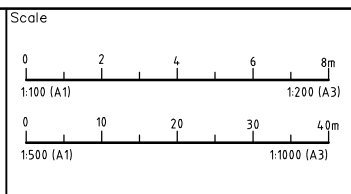


A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
LONGITUDINAL SECTION ROAD 10

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M	I.H	08.06.22

North



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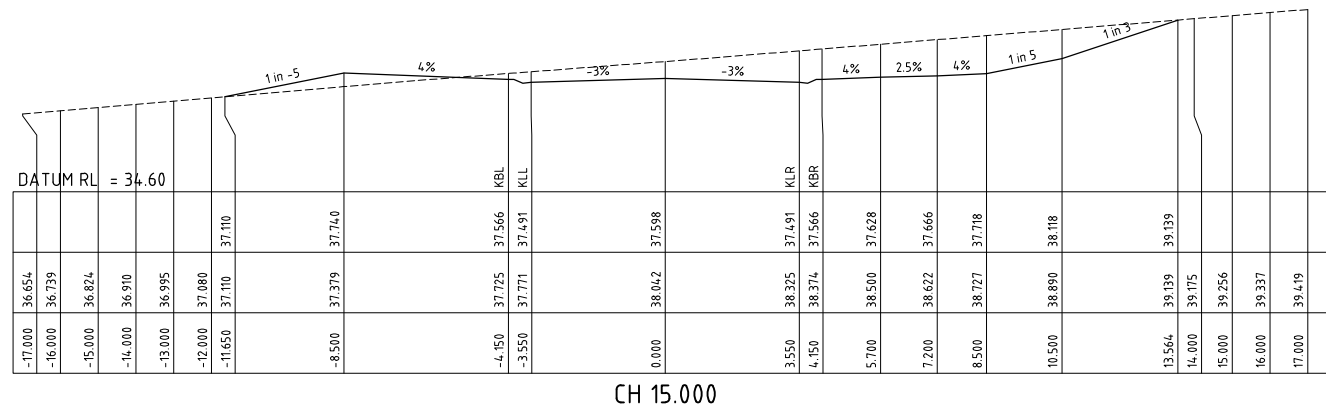
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Scale 1:500H/1:100V	A1 SHEET
Project Approval IAN HILL (B.E) Consulting Civil Engineer	

Client

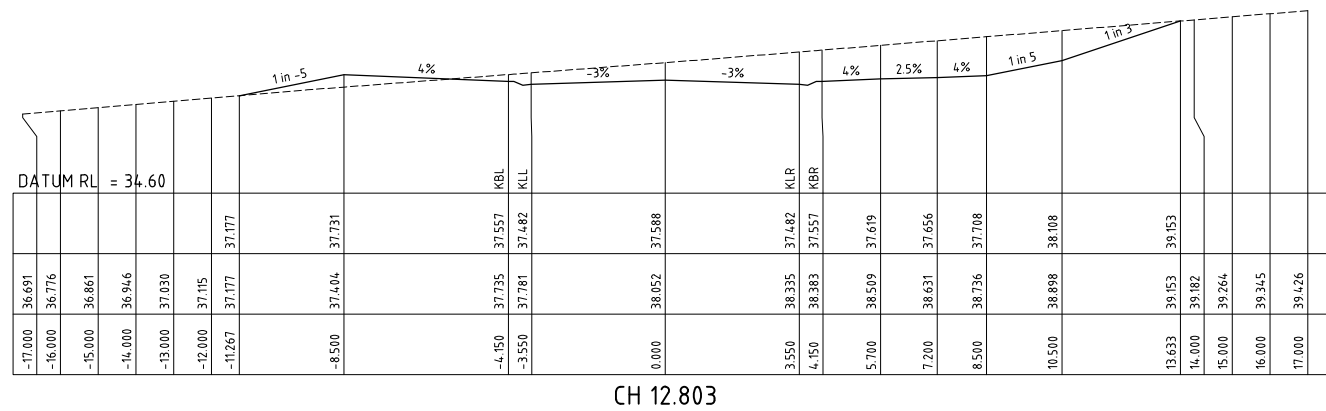
GCA
ENGINEERING SOLUTIONS
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PO BOX 3337, THORNTON NSW 2322
PHONE: (02) 4964 1811

PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
ROAD 10 LONGITUDINAL SECTION

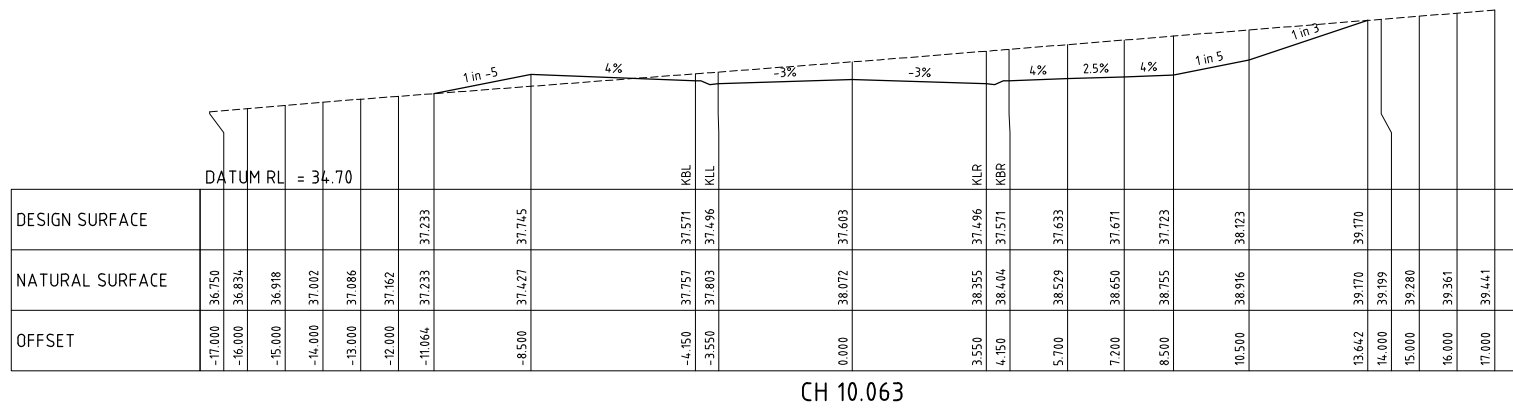
Project No 21360C
Drawing No C13
Revision 1



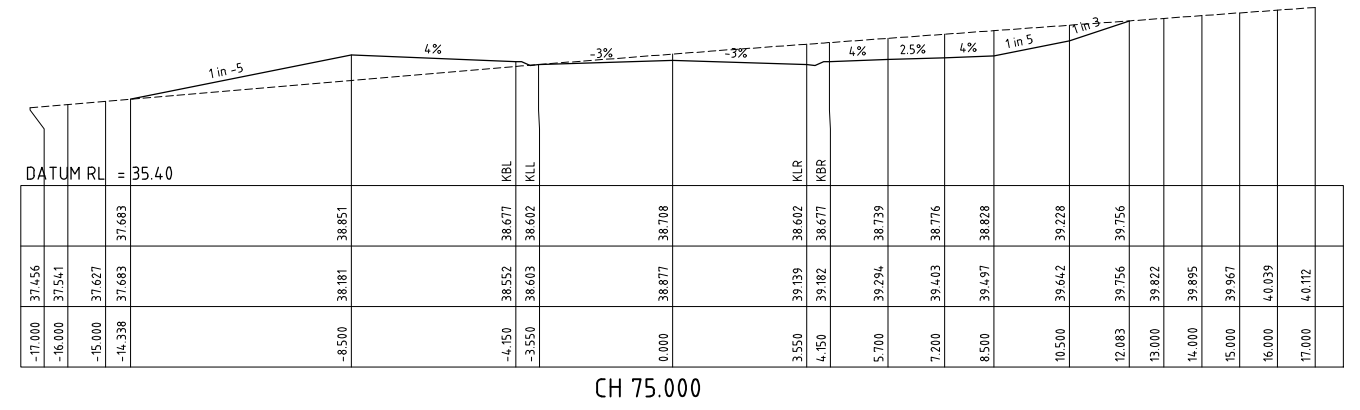
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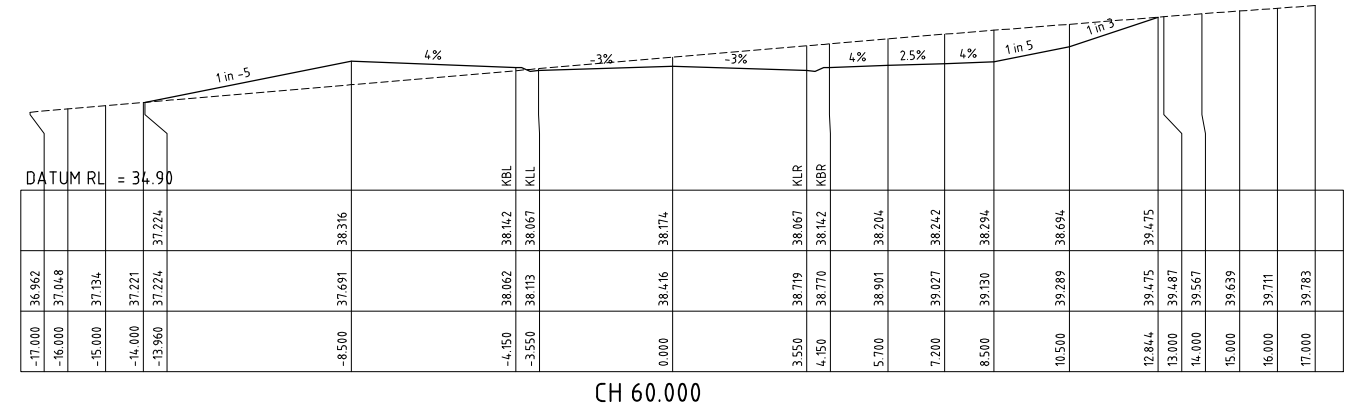
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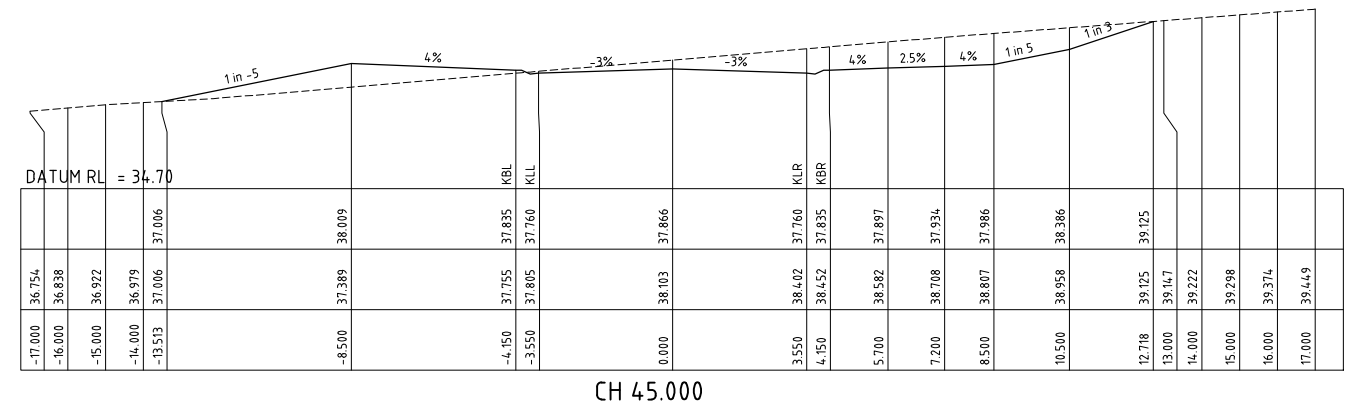
CH 10.063



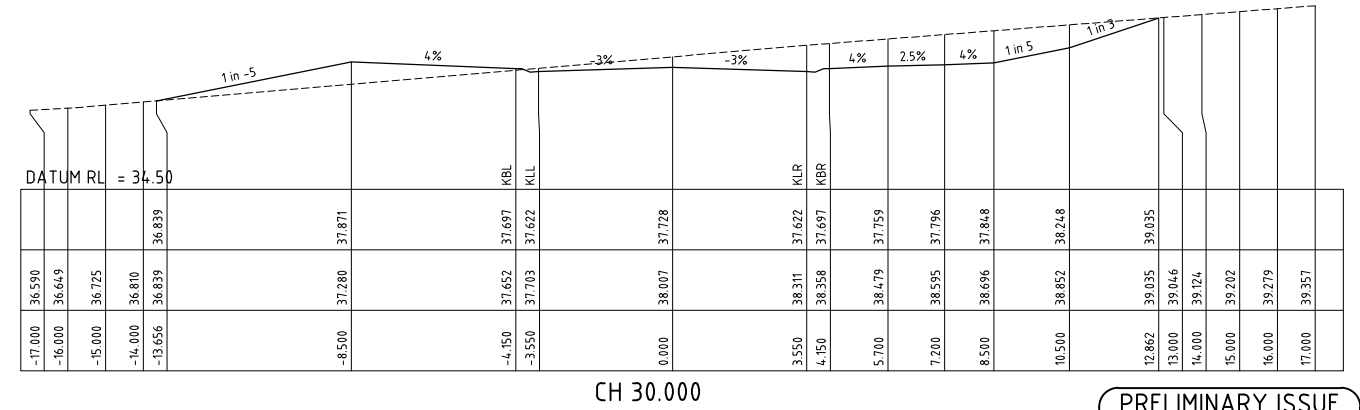
CH 75.000



CH 60.000



CH 45.000



CH 30.000

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

1	ORIGINAL ISSUE	AM	IH	09.06.22
Amendment	Description	Drawn	App'd	Date

North
Scale
0 2 4 6 8m
1:100 (A1) 1:200 (A3)

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Designed
A.M
Scale
1:100
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

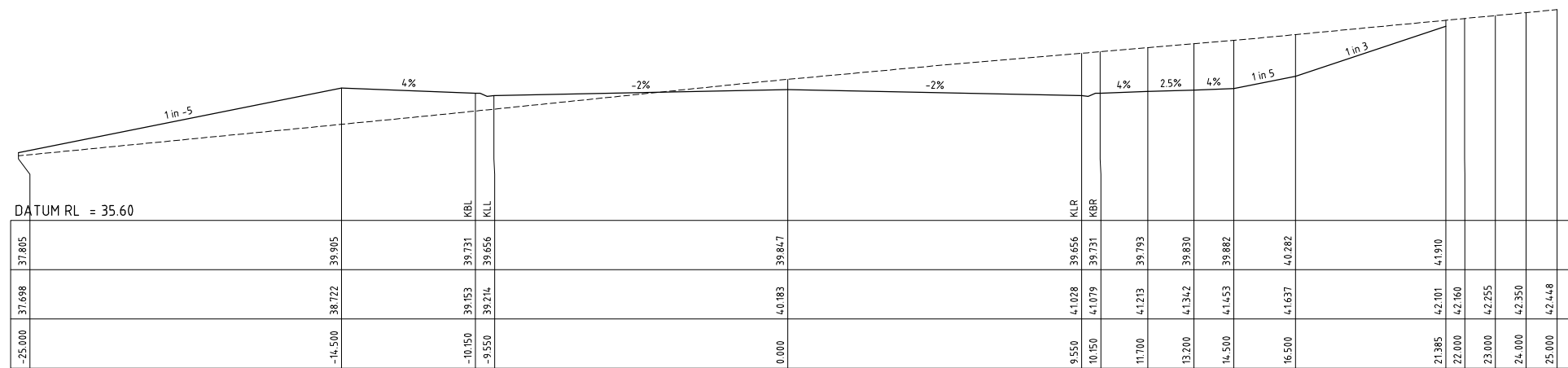
Cad Reference
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A1 SHEET

Client

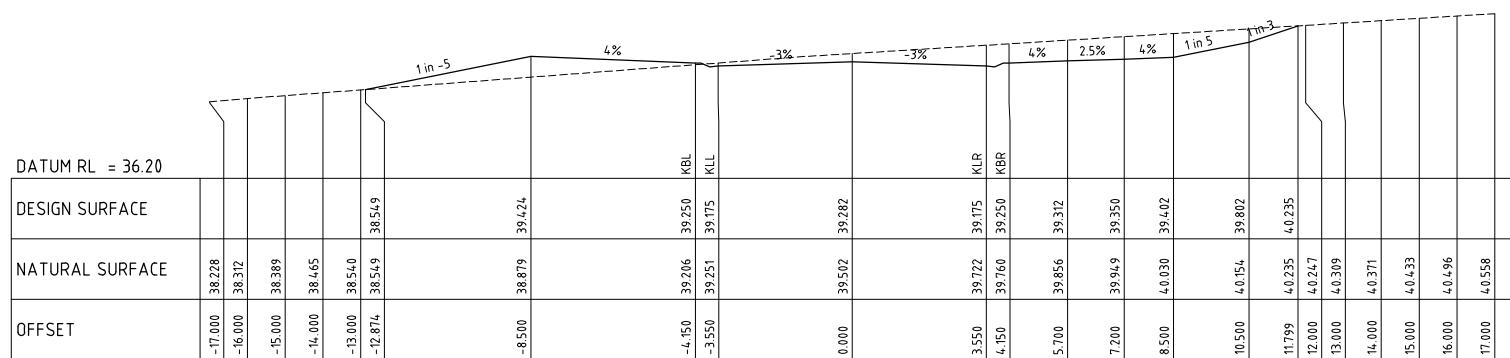


PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
ROAD 10 CROSS SECTIONS (1 OF 2)

Project No	21360C
Drawing No	C14
Revision	1



CH 114.080



CH 89.333

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M	I.H	09.06.22

North
Scale
0 2 4 6 8m 1:100 (A1) 1:200 (A3)

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Designed
A.M
Scale
1:100
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

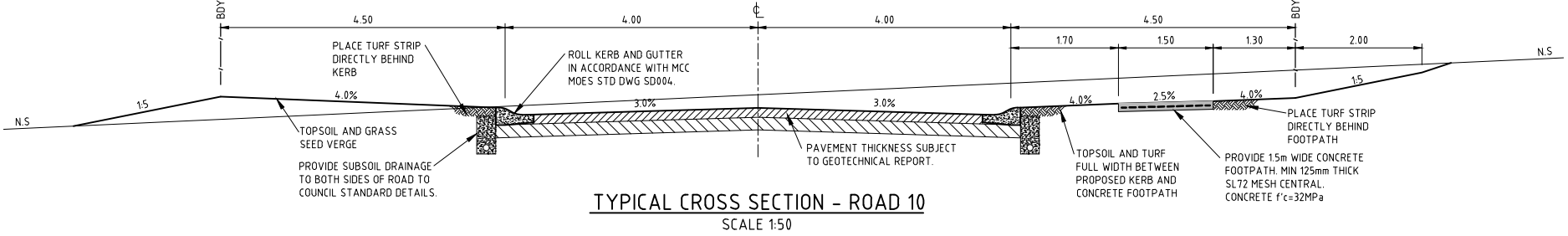
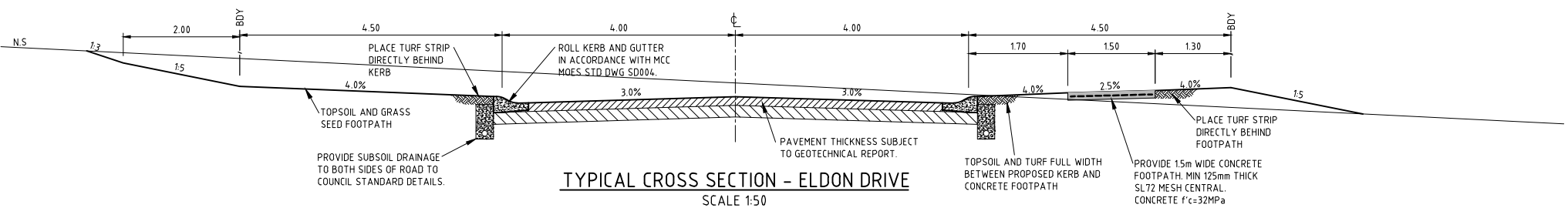
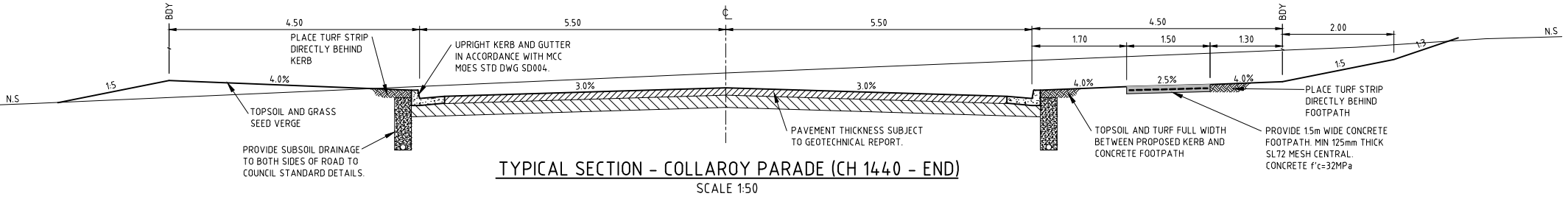
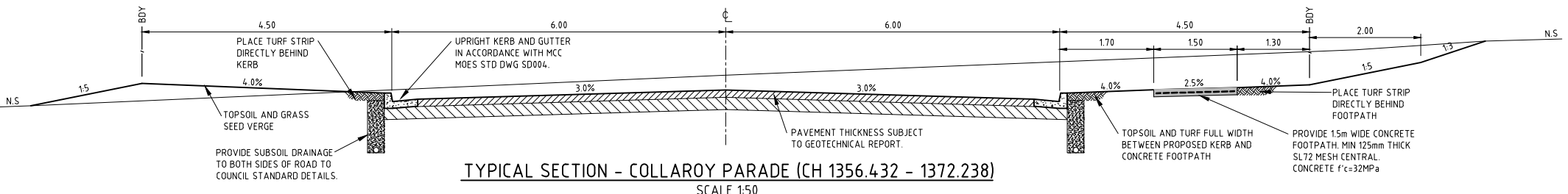
Cad Reference
21360C dC15 r1
A1 SHEET

Client



PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
ROAD 10 CROSS SECTIONS (2 OF 2)

Project No	21360C
Drawing No	C15
Revision	1

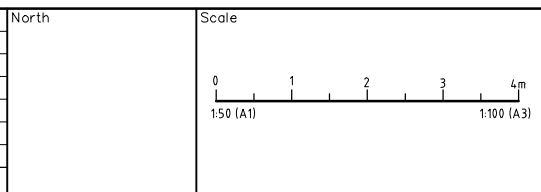


NOTES:

- ALL DIMENSIONS OF EASEMENTS AND LOTS ARE SUBJECT TO REGISTRATION OF DEPOSITED PLAN.
- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED PLANS SUBJECT TO MAITLAND CITY COUNCIL'S MANUAL OF ENGINEERING STANDARDS.
- EROSION CONTROL DEVICES AND SILTATION TRAPS TO BE INSTALLED BEFORE SITE IS DISTURBED IN ACCORDANCE WITH THE ATTACHED EROSION AND SEDIMENTATION CONTROL PLAN. COUNCIL IS TO INSPECT ALL EROSION AND SEDIMENT CONTROLS PRIOR TO ANY WORK COMMENCING.
- DENUDED AREAS TO BE SEEDED IMMEDIATELY UPON COMPLETION OF TOP SOIL SPREADING.
- ALL REINFORCED CONC. STORMWATER DRAINAGE PIPES ARE TO BE RUBBER RING JOINTED.
- ALL EKI PIT GRATES TO BE SADDINGTONS GGLCD OR SIMILAR WITH RHS FRONT AND BACK.
- ALL PITS DEEPER THAN 1.2m ARE TO BE CONSTRUCTED WITH STEP IRONS IN ACCORDANCE WITH MCC MANUAL OF ENGINEERING STANDARDS STD DWG SD039, SD043 AND ARE TO HAVE INCREASED INTERNAL DIMENSIONS TO ALLOW ACCESS IN ACCORDANCE WITH CONFINED SPACE REGULATIONS.
- ALL STREET DRAINAGE PITS TO BE CONSTRUCTED IN ACCORDANCE WITH MCC MANUAL OF ENGINEERING STANDARDS SD039.
- ALL INTERALLOTMENT DRAINAGE PITS TO BE CONSTRUCTED IN ACCORDANCE WITH MCC MANUAL OF ENGINEERING STANDARDS SD043.
- ALL INTERALLOTMENT DRAINAGE PIPES TO BE SEWER GRADE UPVC (UNLESS OTHERWISE SHOWN) OR AN APPROVED EQUIVALENT. THE MINIMUM SLOPE OF INTERALLOTMENT DRAINAGE LINES SHALL BE 1%, THE INTERALLOTMENT DRAINAGE LINE SHALL BE A MINIMUM OF 0.5m FROM THE BOUNDARY AND LOCATED IN AN EASEMENT 1.5m WIDE.
- ALL EXISTING UNDERGROUND SERVICES MUST BE LOCATED AND EXPOSED PRIOR TO EARTHWORKS COMMENCING AND IT IS THE RESPONSIBILITY OF THOSE PERSONS USING THIS PLAN TO CONFIRM BOTH POSITION & LEVEL OF THESE UTILITIES IN CONJUNCTION WITH THE APPROPRIATE AUTHORITY.
- SUBSOIL DRAINS ARE TO BE PROVIDED IN ACCORDANCE WITH COUNCIL'S STD DWG SD035 AND SD032, AND WHERE NECESSARY, AS DIRECTED BY COUNCIL DURING WORKS.
- PAVEMENT THICKNESS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE APPROVED GEOTECHNICAL REPORT AND TO THE SATISFACTION OF MAITLAND CITY COUNCIL. PAVEMENT DESIGN, PAVEMENT MATERIALS AND DEPTH TO BE APPROVED BY THE SUBDIVISION AND DEVELOPMENT ENGINEER ACTING AS THE PRINCIPAL CERTIFIER FOLLOWING SUBGRADE INSPECTION.
- EASEMENT FOR BATTER TO BE CREATED WHERE FILL BATTERS ARE 3(H):1(V) OR STEEPER OR WHERE DEPTH OF FILL AT BOUNDARY EXCEEDS 600mm.
- WORKING HOURS ON SITE SHALL BE IN ACCORDANCE WITH EPA & COUNCIL REQUIREMENTS.
- VEHICULAR ACCESS AND ALL SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION WORKS.
- MAINTENANCE ON THE SEEDED AND TURFED AREAS SHALL BE OVER A 3 MONTH PERIOD. TURF THE FULL WIDTH OF ALL EARTH DISH DRAINS. LAY 600mm WIDE TURF STRIPS TO EACH SIDE OF CONCRETE ACCESSWAYS, PATHWAYS, AT THE REAR OF ALL KERB AND GUTTERING AND AT THE TOP OF CUT BATTERS. MULCH (IF AVAILABLE FROM SITE CLEARING) AND SEED ALL OTHER DISTURBED AREAS, INCLUDING TRENCHES. NO PERMANENT MULCH/WOODCHIP IS PERMITTED WITHIN FLOWPATHS AND PUBLIC AREAS.
- ALL PERAMBULATOR RAMPS TO BE CONSTRUCTED AS SHOWN ON PLANS AND IN ACCORDANCE WITH MAITLAND CITY COUNCIL'S MANUAL OF ENGINEERING STANDARDS STD DWG SD019.
- TRAFFIC CONTROL MEASURES TO BE IN ACCORDANCE WITH AS 1742.3-1996.
- ALL LEVELS MUST BE OBTAINED FROM ESTABLISHED BENCH MARKS AS DIRECTED BY THE SUPERVISOR.
- THE CONTRACTOR IS TO ENSURE THAT ALL THE NECESSARY SERVICE PIPE CONDUITS AND FITTINGS ARE IN PLACE PRIOR TO THE FINAL WEARING COURSE BEING LAID.
- PROVIDE STREET NAME SIGNS AT ALL INTERSECTIONS, DOUBLE BLADED WHERE NECESSARY IN ACCORDANCE WITH MCC MANUAL OF ENGINEERING STANDARDS STD DWG SD029.
- ALL SITE FILLING TO BE CONTROLLED FILL TO AS3798 WITH TESTING TO BE CARRIED OUT BY A NATA REGISTERED LABORATORY.
- PAVEMENT PROOF ROLLING AND LEVEL CHECKS, DENSITY AND BENKELMAN BEAM TESTING TO BE IN ACCORDANCE WITH COUNCIL'S MANUAL OF ENGINEERING STANDARDS.
- ALL FILL MATERIAL WITHIN LOTS INCLUDING BATTERS SHALL BE PLACED IN ACCORDANCE WITH AS3978 TO LEVEL 1 INSPECTION AND TESTING.
- WHERE APPROVED CONSTRUCTION WORK REQUIRES THE REMOVAL OF TREES, THE CONTRACTOR IS TO ENGAGE THE SERVICES OF A SUITABLY QUALIFIED ECOLOGIST TO INSPECT THE SITE AND IDENTIFY ANY TREE WHICH IS LIKELY TO BE A HABITAT TREE. THE ECOLOGIST IS ALSO TO BE ON SITE DURING THE FELLING OF ANY IDENTIFIED TREE AND ENSURE THAT ANY DISPLACED OR INJURED WILDLIFE IS COLLECTED AND FORWARDED TO AN APPROPRIATE WILDLIFE RESCUE SERVICE. THE ECOLOGIST IS TO REPORT TO COUNCIL ON ACTION TAKEN AS PART OF TREE CLEARING OPERATIONS.

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M	I.H	08.06.22



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Designed
A.M

Scale
AS SHOWN

Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
21360C dC16 r1

A1 SHEET

Client

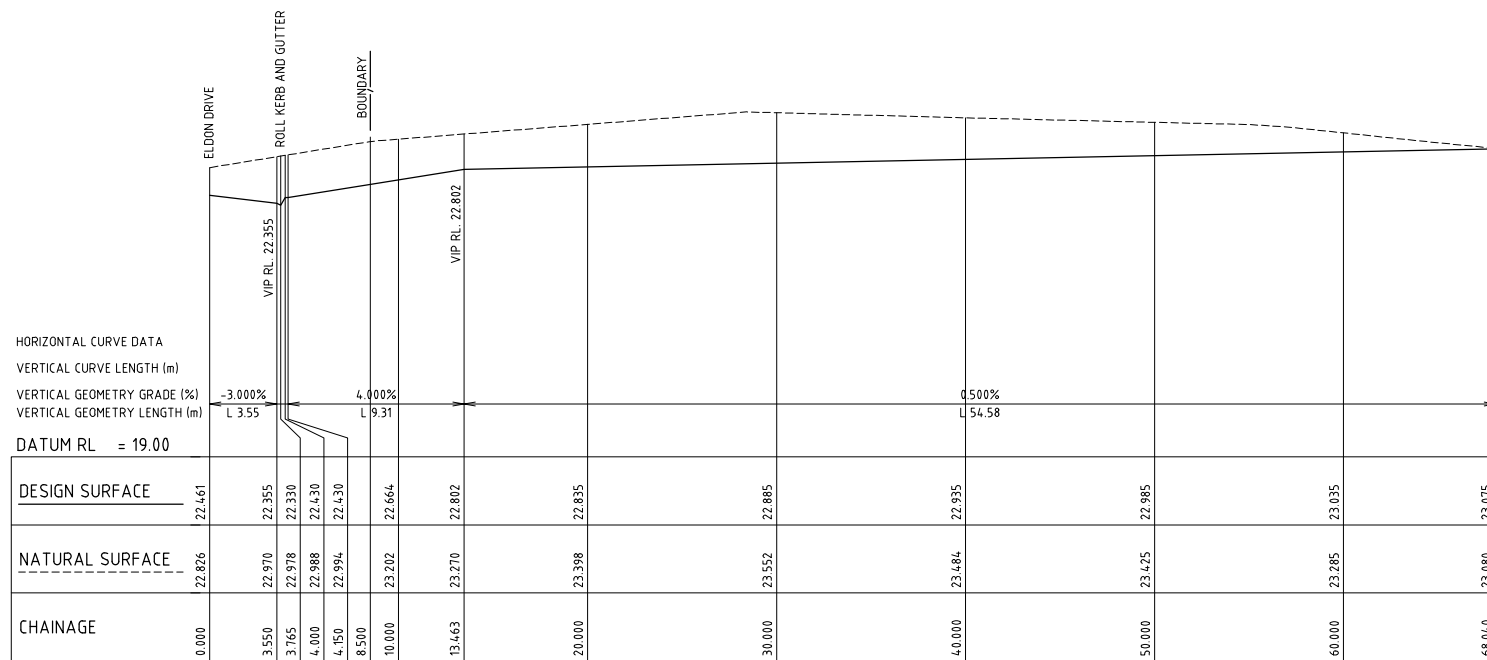
GCA
ENGINEERING SOLUTIONS

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1 HARTLEY DRIVE, THORNTON NSW 2322
PO BOX 3337, THORNTON NSW 2322
PHONE: (02) 4964 1811

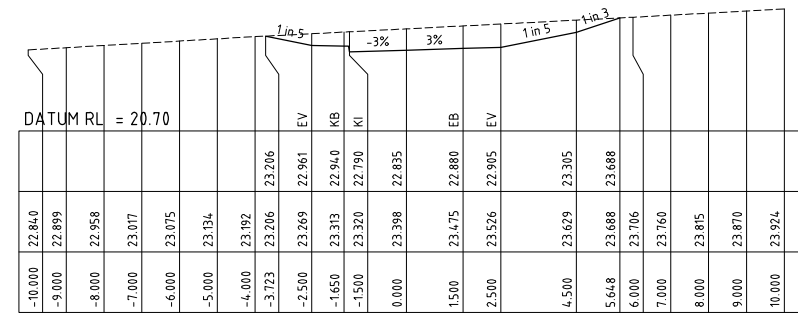
PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST

TYPICAL SECTIONS, DETAILS AND NOTES

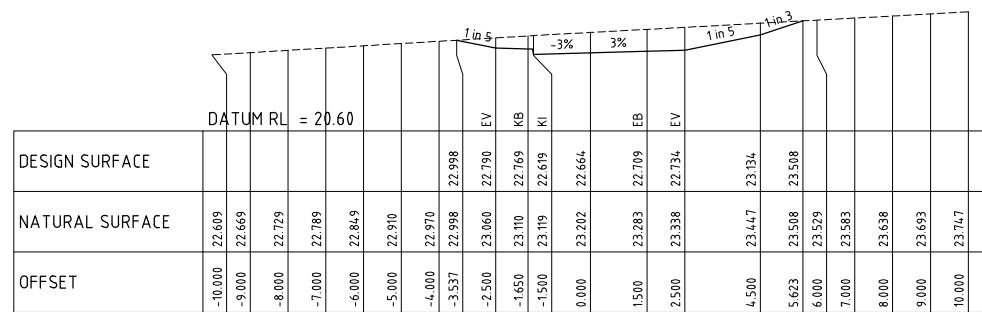
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Drawing No C16	Revision 1



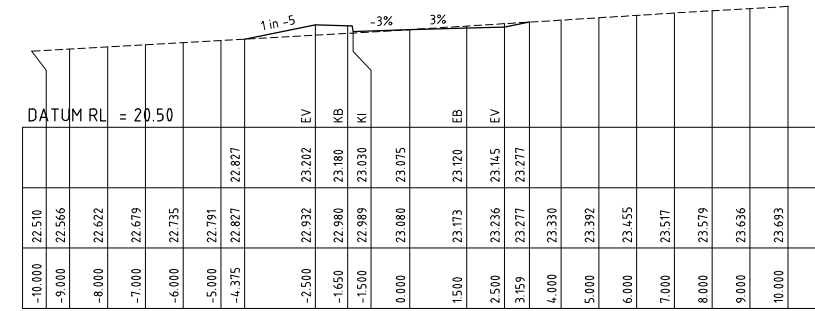
A1 SCALE: HORIZONTAL 1:200, VERTICAL 1:50
LONGITUDINAL SECTION ACCESSWAY LOT 103



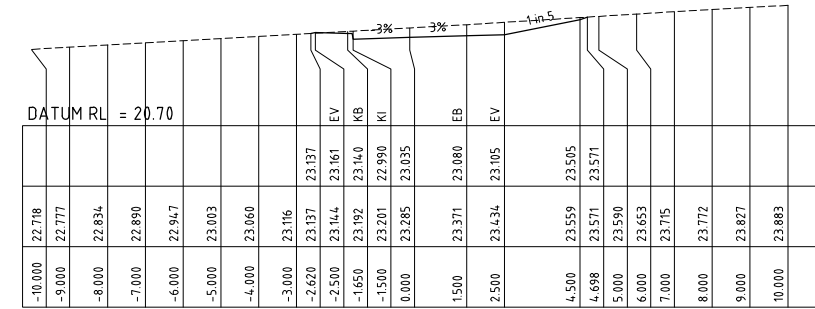
CH 20.00



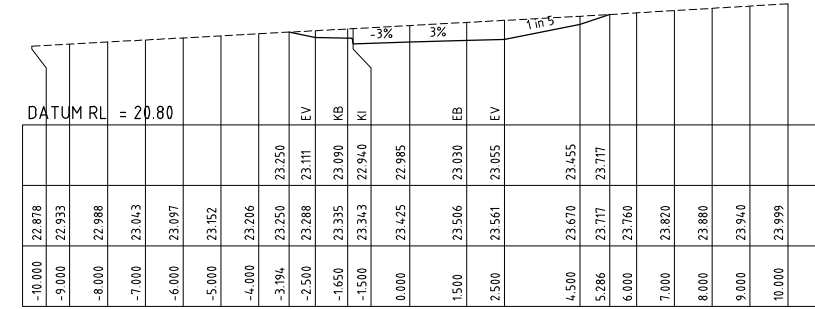
CH 10.00



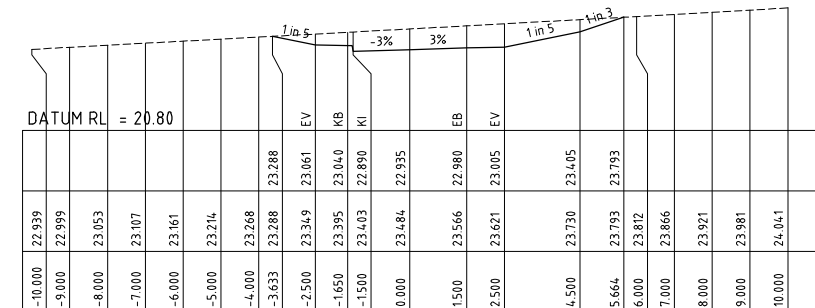
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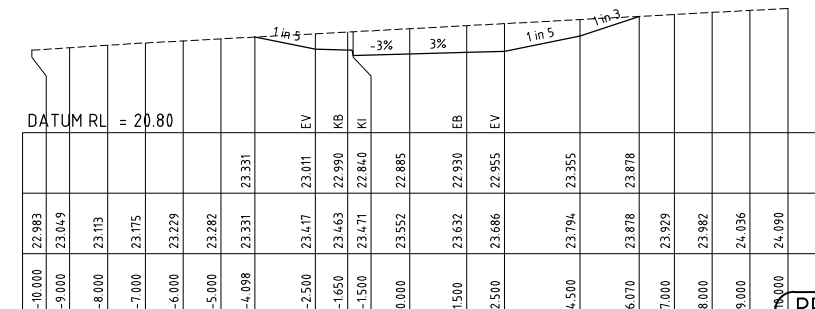
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CH 50.000



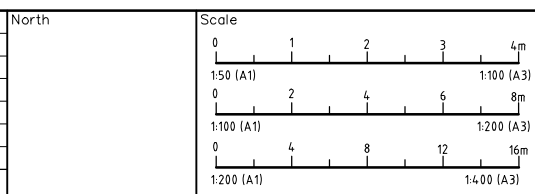
CH 40.000



CH 30.000

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	AM	IH	09.06.22



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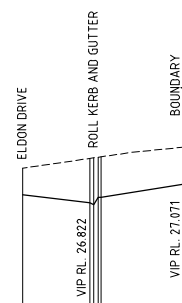
Designed
A.M
Scale
AS SHOWN
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
21360C dC18 r1
Client



PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
ACCESSWAY LOT 103 LONGITUDINAL
AND CROSS SECTIONS

Project No	21360C
Drawing No	C18
Revision	1



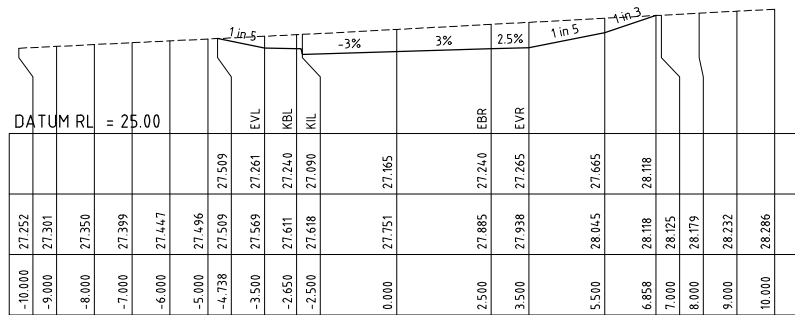
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 VERTICAL GEOMETRY LENGTH (m)

DATUM RL = 23.00

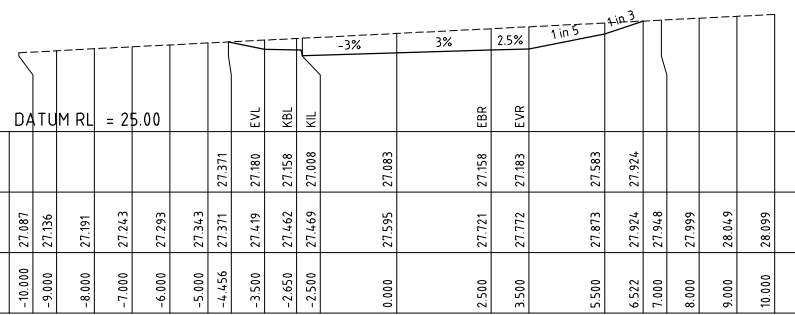
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4.000	26.897	27.426
4.150	26.897	27.432
8.500	27.071	27.558
10.000	27.083	27.595
20.000	27.165	27.751
30.000	27.247	27.893
40.000	27.329	27.917
50.000	27.410	27.838
60.000	27.492	27.675
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A1 SCALE: HORIZONTAL 1:200, VERTICAL 1:50

LONGITUDINAL SECTION ACCESSWAY LOT 107 / 108

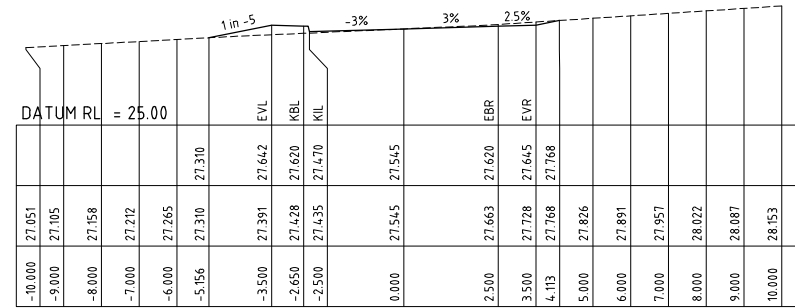


CH 20.000

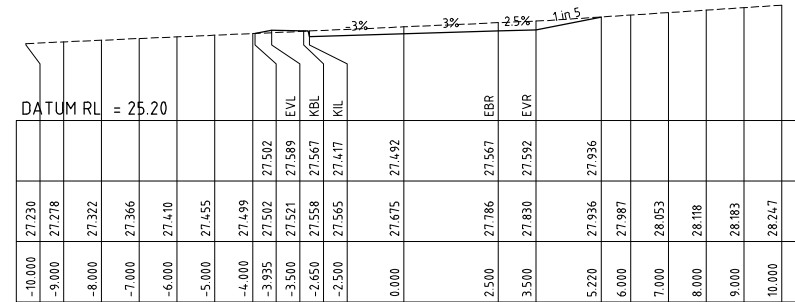


CH 10.000

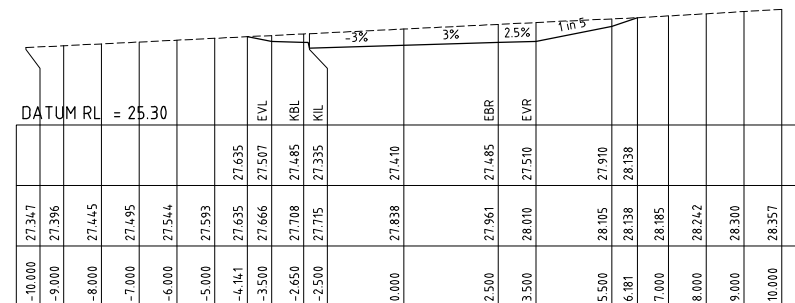
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	-5.000 27.343	
	-4.456 27.371	
	-3.500 27.419	
	-2.650 27.462	
	-2.500 27.469	
	0.000 27.595	
	2.500 27.721	
	3.500 27.772	
	5.500 27.873	
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	9.000 28.049	
	10.000 28.099	



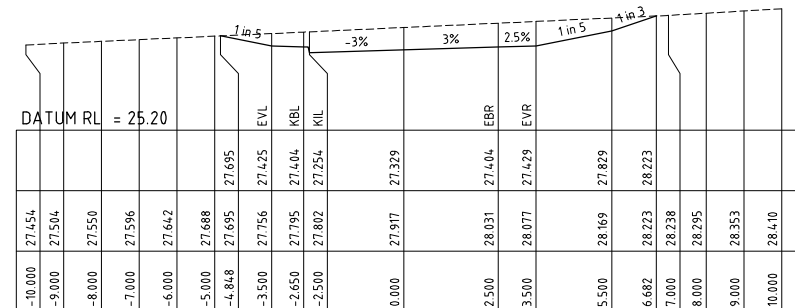
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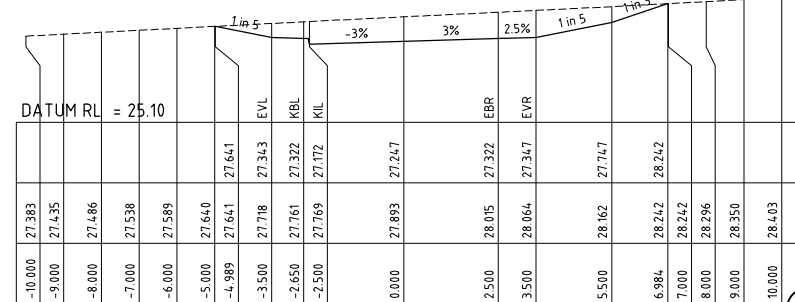
CH 60.000



CH 50.000



CH 40.000



CH 30.000

Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M	I.H	09.06.22

North

Scale

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Designed
A.M
 Scale
AS SHOWN
 Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
21360C dC19 r1
A1 SHEET

Client

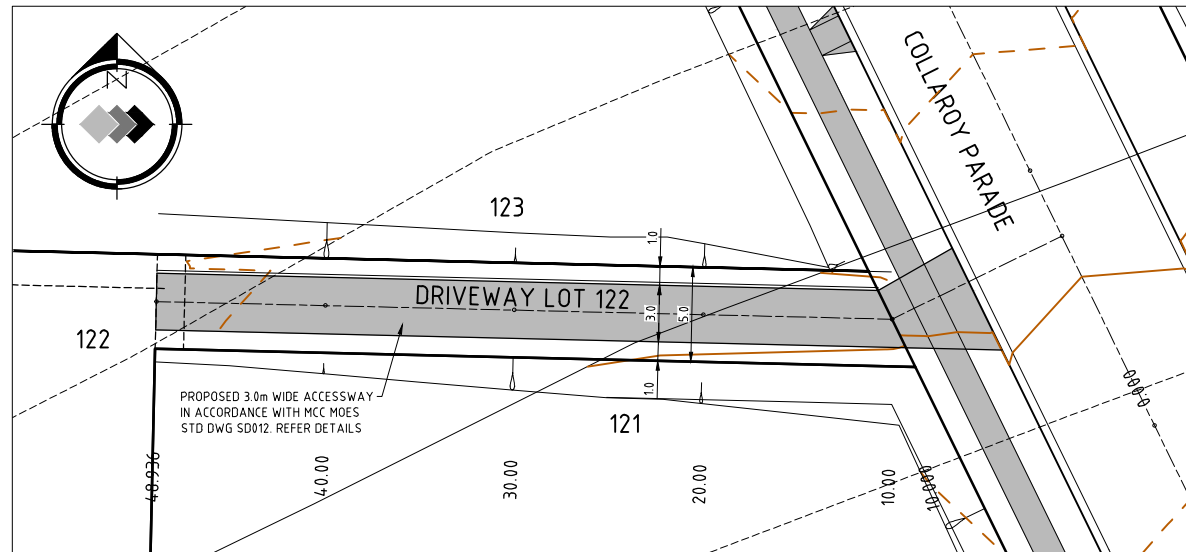
GCA
ENGINEERING SOLUTIONS

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1 HARTLEY DRIVE, THORNTON NSW 2322
PO BOX 3337, THORNTON NSW 2322
PHONE: (02) 4964 1811

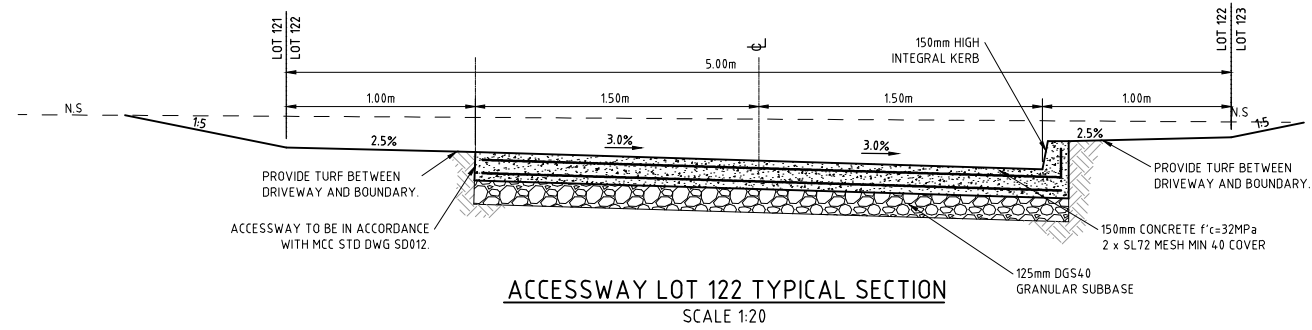
PROPOSED SUBDIVISION
 442 LOUTH PARK ROAD
 LOUTH PARK - HILLVIEW EAST
 ACCESSWAY LOT 107 LONGITUDINAL
 AND CROSS SECTIONS

Project No
21360C
 Drawing No
C19
 Revision
1

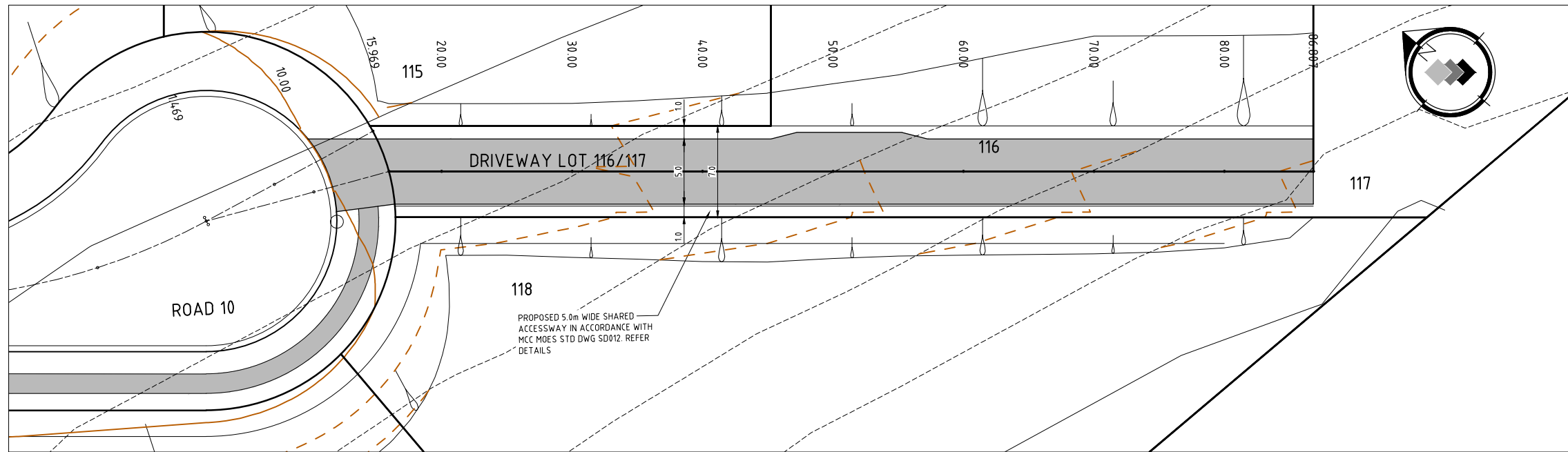
PRELIMINARY ISSUE
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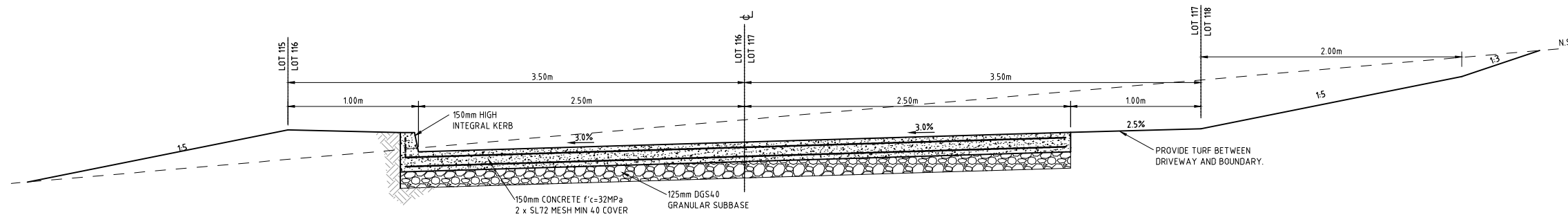
ACCESSWAY LOT 122 DETAIL PLAN
SCALE 1:200



ACCESSWAY LOT 122 TYPICAL SECTION
SCALE 1:20



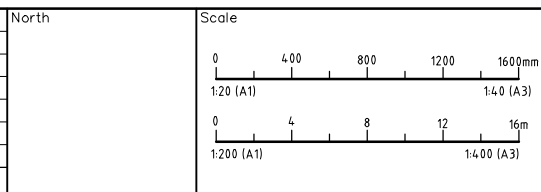
ACCESSWAY LOT 116 / 117 DETAIL PLAN
SCALE 1:200



ACCESSWAY LOT 116/117 TYPICAL SECTION
SCALE 1:20

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Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M	I.H	08.06.22



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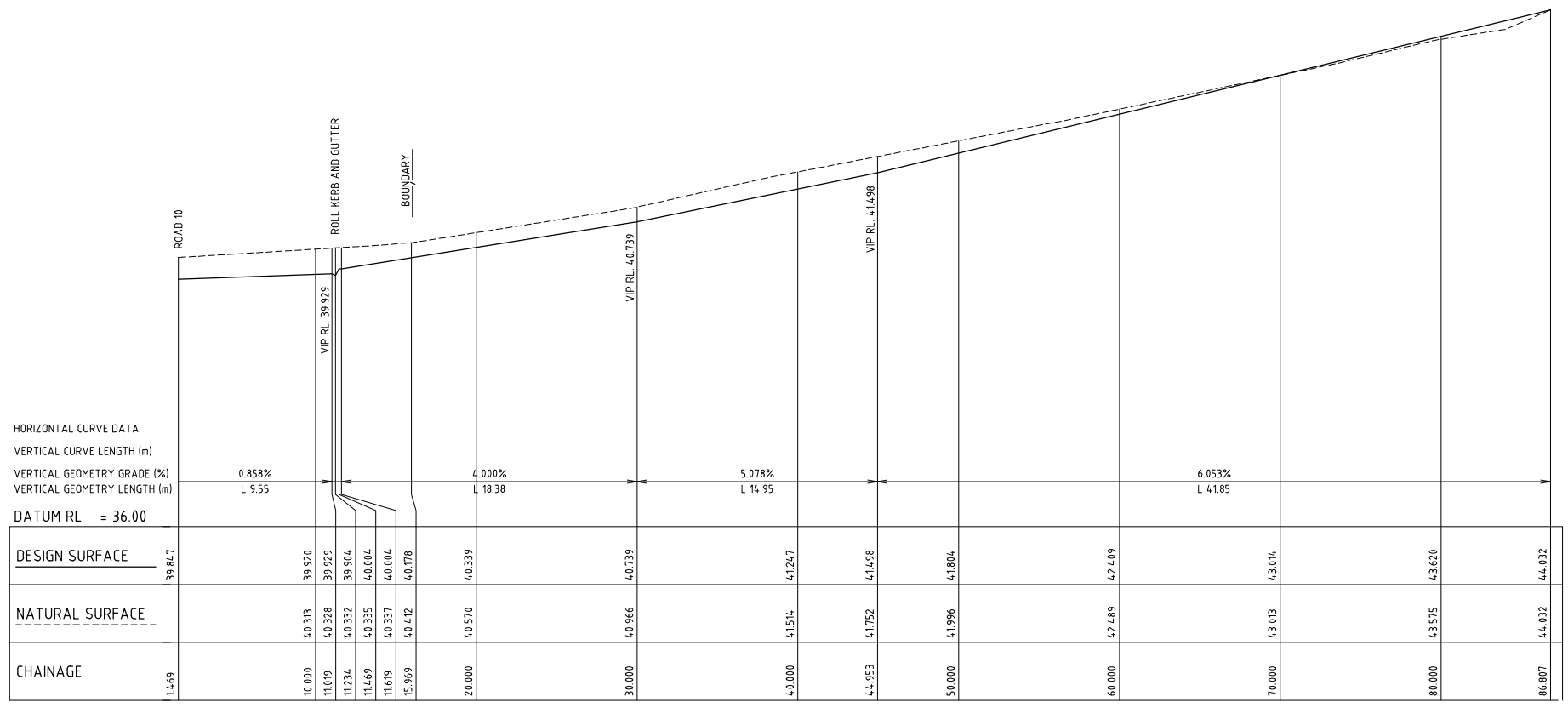
Designed
A.M
Scale
AS SHOWN
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
21360C dC21 r1
Client

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PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
ACCESSWAY LOT 116, 117 & 122 TYPICAL DETAILS

Project No	21360C
Drawing No	C21
Revision	1

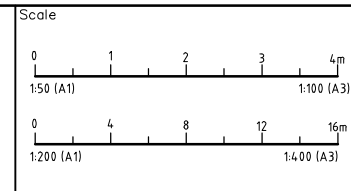


A1 SCALE: HORIZONTAL 1:200, VERTICAL 1:50
 LONGITUDINAL SECTION ACCESSWAY LOT 116 / 117

PRELIMINARY ISSUE
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Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M	I.H	09.06.22

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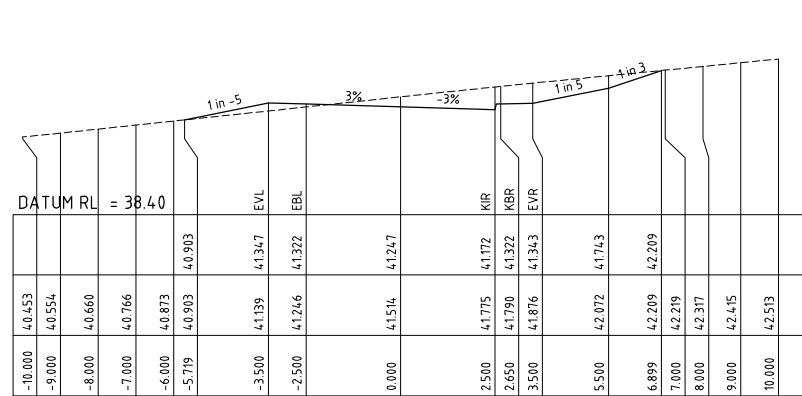
Designed A.M	Cad Reference 21360C dC22 r1
Scale AS SHOWN	A1 SHEET
Project Approval IAN HILL (B.E) Consulting Civil Engineer	

Client

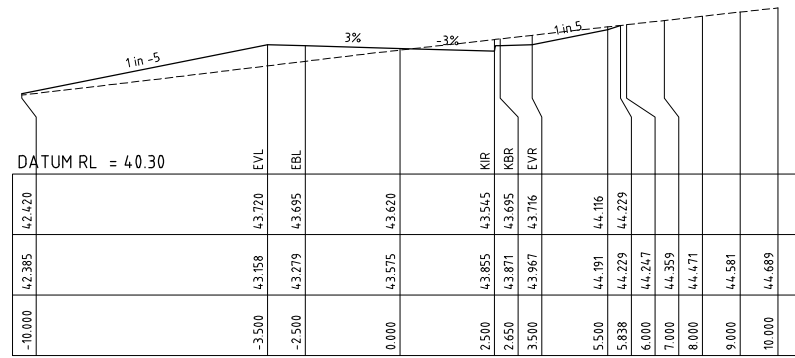


PROPOSED SUBDIVISION
 442 LOUTH PARK ROAD
 LOUTH PARK - HILLVIEW EAST
 ACCESSWAY LOT 117 LONGITUDINAL SECTION

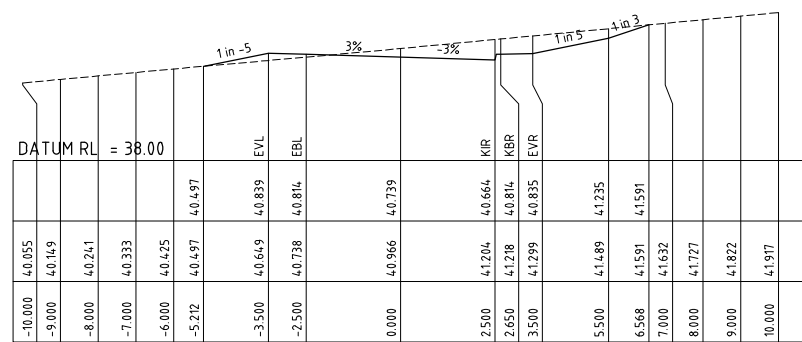
Project No 21360C
Drawing No C22
Revision 1



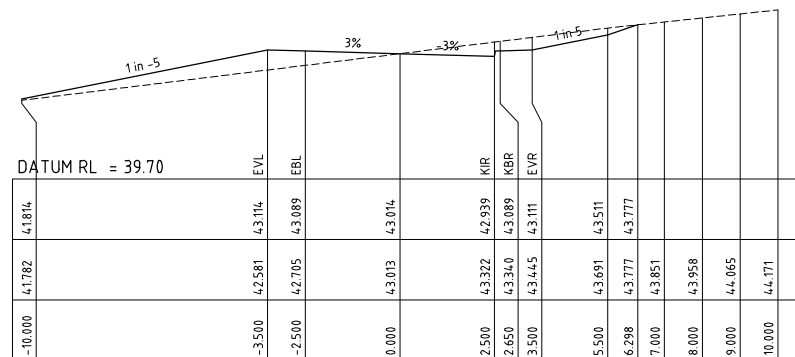
CH 40.000



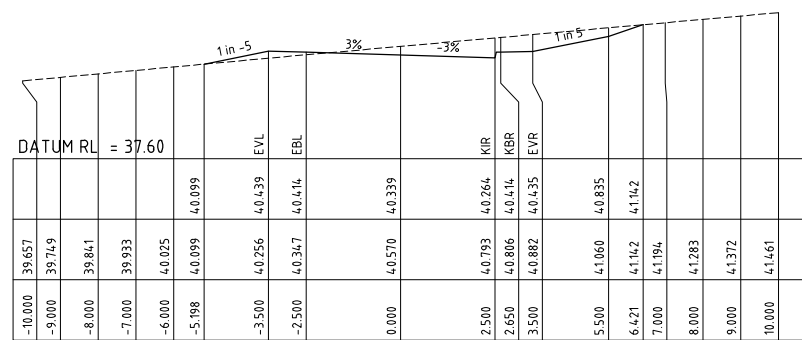
CH 80.000



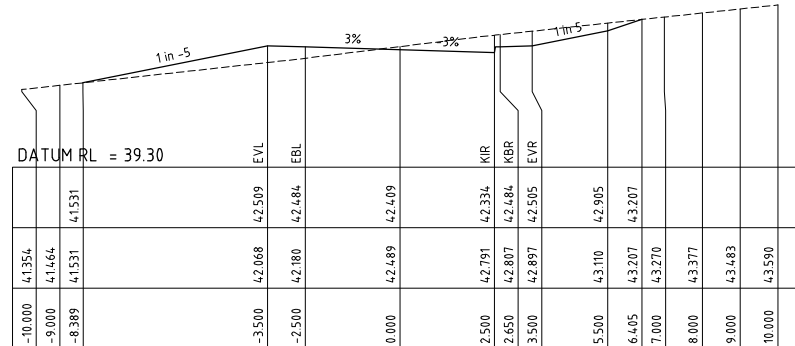
CH 30.000



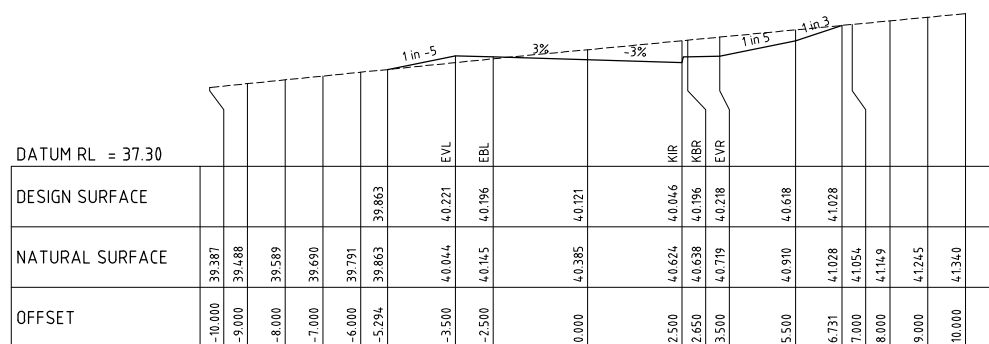
CH 70.000



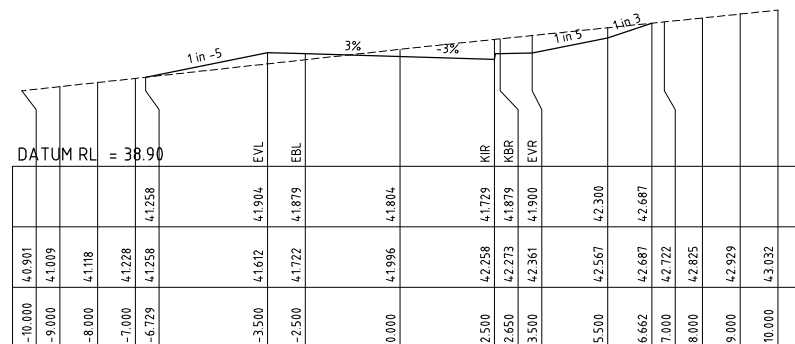
CH 20.000



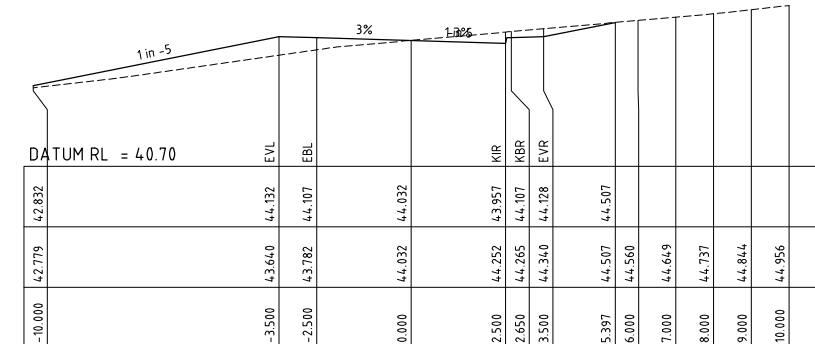
CH 60.000



CH 14.566



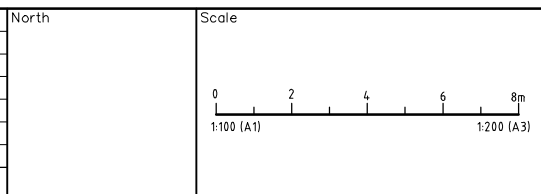
CH 50.000



CH 86.807

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Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M.	I.H.	09.06.22



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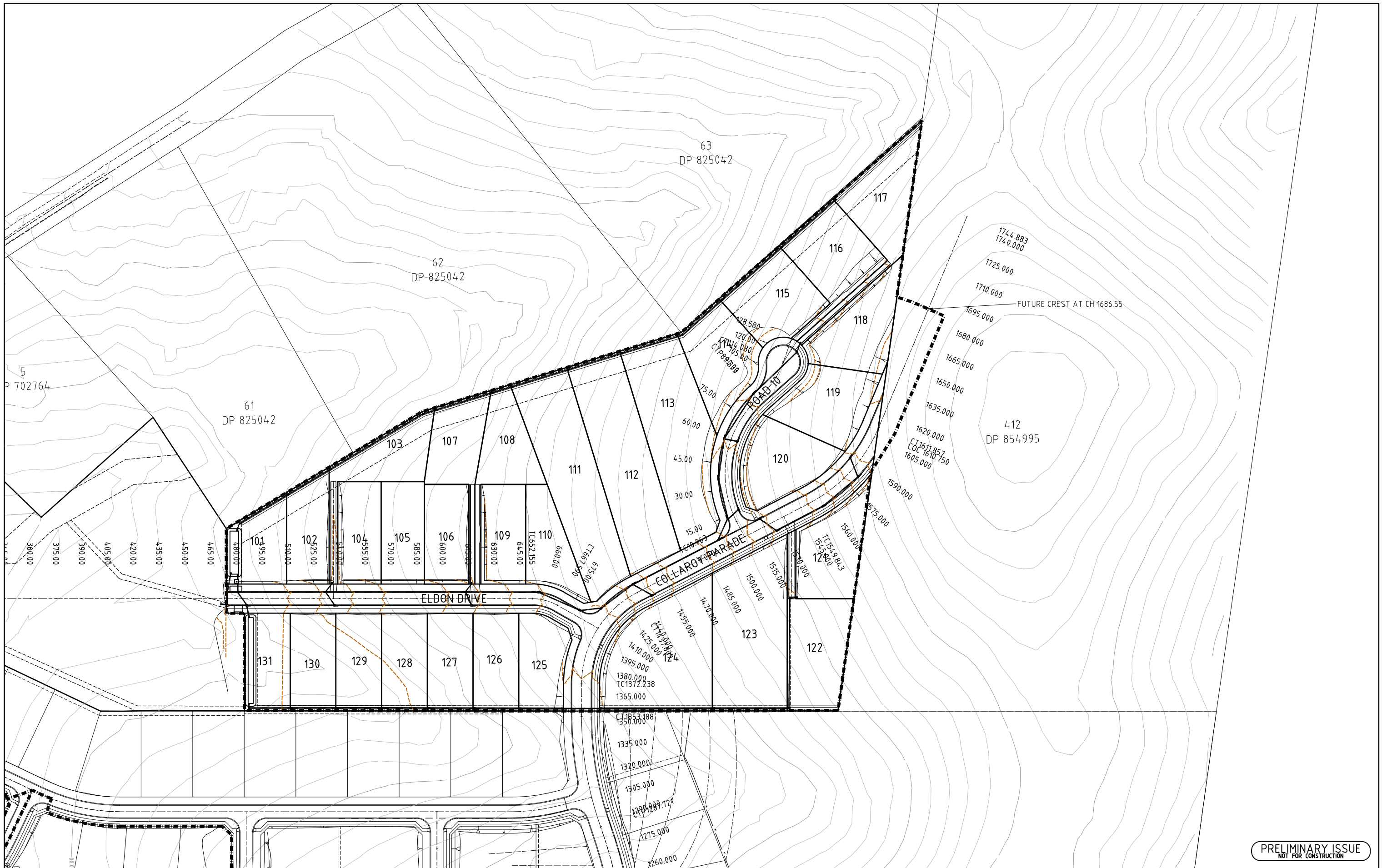
Designed
A.M.
Scale
AS SHOWN
Project Approval
IAN HILL (B.E.)
Consulting Civil Engineer

Cad Reference
21360C dC23 r1
Client



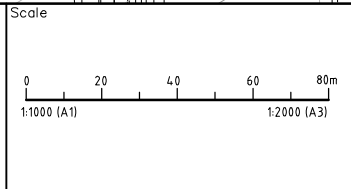
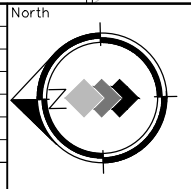
PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
ACCESSWAY LOT 117 CROSS SECTIONS

Project No	21360C
Drawing No	C23
Revision	1



PRELIMINARY ISSUE
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Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M	I.H	02.09.22



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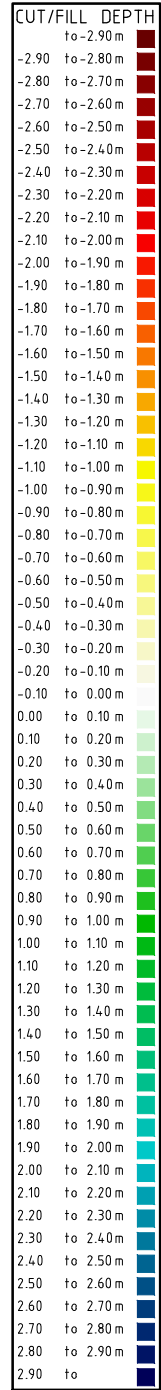
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A.M
Scale
1:1000
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
21360C dC25 r1
Client



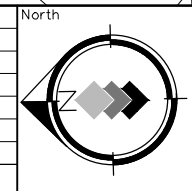
PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
OVERALL CATCHMENT PLAN

Project No	21360C
Drawing No	C25
Revision	1



PRELIMINARY ISSUE
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Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M	I.H	09.06.22



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Designed
A.M
Scale
1:1000
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

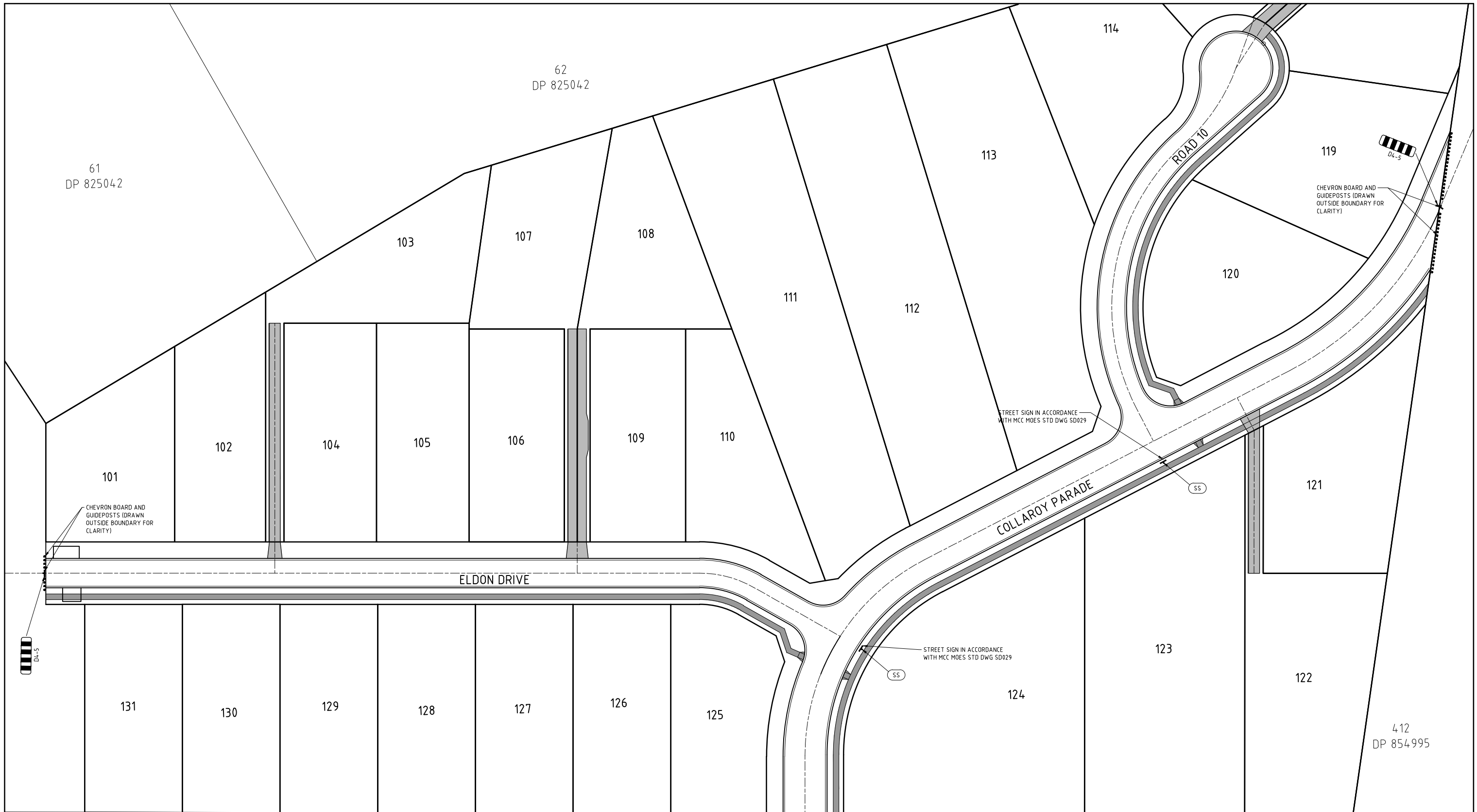
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21360C dC26 r1
A1 SHEET

Client



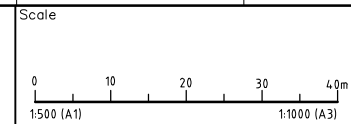
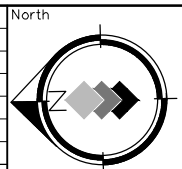
PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
EARTHWORKS PLAN

Project No
21360C
Drawing No
C26
Revision
1



PRELIMINARY ISSUE
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Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M	I.H	09.06.22



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Scale
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Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
21360C dC27 r1
A1 SHEET

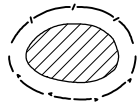
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PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
LINEMARKING AND SIGNAGE PLAN

Project No
21360C
Drawing No
C27
Revision
1

LEGEND:



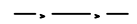
STOCKPILE



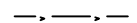
STRAW BALE



STABILISED SITE ACCESS



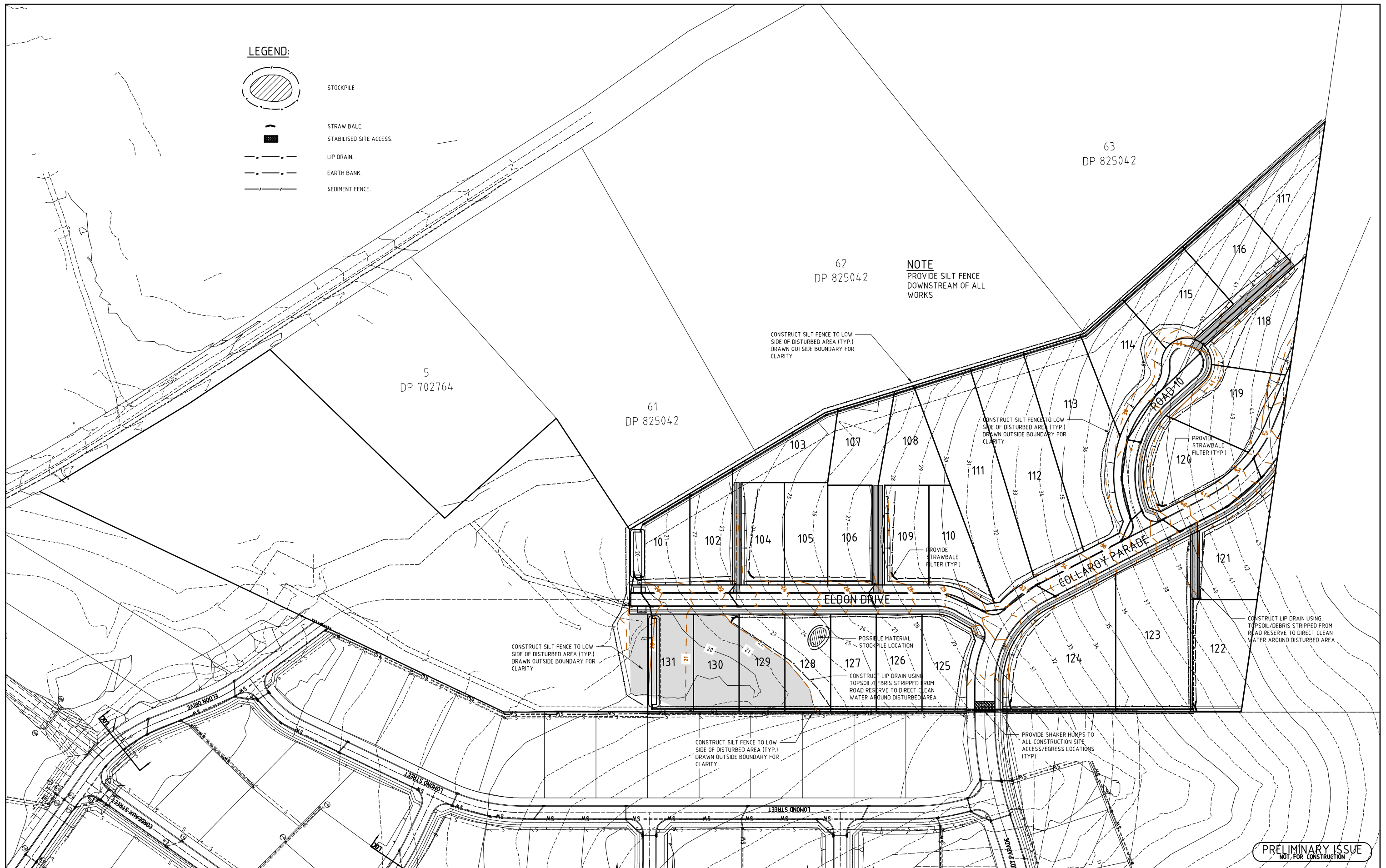
LIP DRAIN



EARTH BANK



SEDIMENT FENCE



NOTE
PROVIDE SILT FENCE
DOWNSTREAM OF ALL
WORKS

CONSTRUCT SILT FENCE TO LOW
SIDE OF DISTURBED AREA (TYP.)
DRAWN OUTSIDE BOUNDARY FOR
CLARITY

CONSTRUCT SILT FENCE TO LOW
SIDE OF DISTURBED AREA (TYP.)
DRAWN OUTSIDE BOUNDARY FOR
CLARITY

PROVIDE
STRAWBALE
FILTER (TYP.)

CONSTRUCT SILT FENCE TO LOW
SIDE OF DISTURBED AREA (TYP.)
DRAWN OUTSIDE BOUNDARY FOR
CLARITY

CONSTRUCT LIP DRAIN USING
TOPSOIL/DEBRIS STRIPPED FROM
ROAD RESERVE TO DIRECT CLEAN
WATER AROUND DISTURBED AREA

CONSTRUCT LIP DRAIN USING
TOPSOIL/DEBRIS STRIPPED FROM
ROAD RESERVE TO DIRECT CLEAN
WATER AROUND DISTURBED AREA

CONSTRUCT SILT FENCE TO LOW
SIDE OF DISTURBED AREA (TYP.)
DRAWN OUTSIDE BOUNDARY FOR
CLARITY

PROVIDE SHAKER HUMPS TO
ALL CONSTRUCTION SITE
ACCESS/EGRESS LOCATIONS
(TYP.)

PRELIMINARY ISSUE
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North				
Scale				
1	ORIGINAL ISSUE	A.M	I.H	09.06.22
Amendment	Description	Drawn	App'd	Date

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A.M
Scale
1:500
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

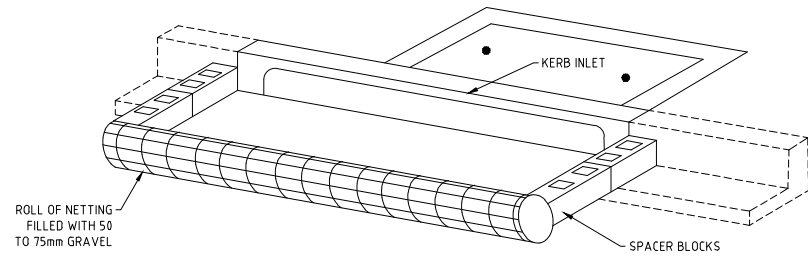
Cad Reference
21360C dC28 r1
A1 SHEET

Client

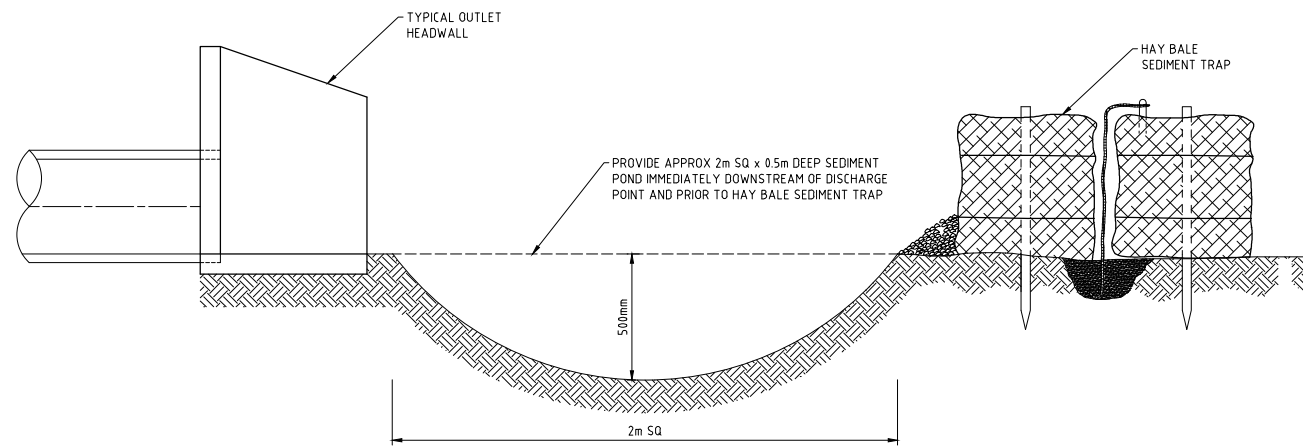
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PO BOX 3337, THORNTON NSW 2322
PHONE: (02) 4964 1811

PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
SOIL AND WATER MANAGEMENT PLAN

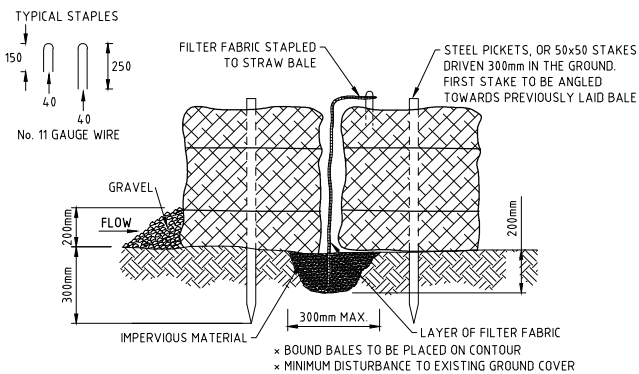
Project No		21360C
Drawing No	Revision	
C28	1	



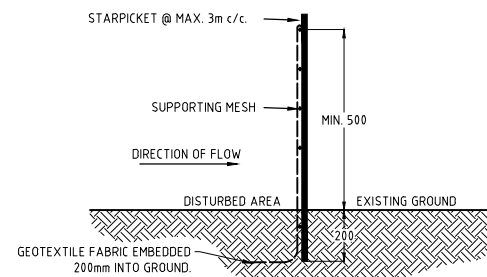
SEDIMENT BARRIER OF STORMWATER PITS
N.T.S



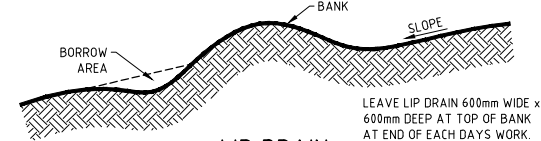
TYPICAL SEDIMENT TREATMENT AT DISCHARGE LOCATION
N.T.S



HAY BALE DETAIL
N.T.S



SEDIMENT FENCE.



LIP DRAIN
N.T.S

TYPICAL CONSTRUCTION SCHEDULE

	WEEK							
	1	2	3	4	5	6	7	8
CONSTRUCT ALL TEMPORARY SEDIMENT BASINS	█							
PLACE SILT FENCE ALONG ROAD BOUNDARIES AS SHOWN	█							
PLACE SILT FENCE BELOW AREAS TO BE REGRADED	█							
CONSTRUCT ALL DIVERSION BANKS CATCHING CLEAN WATER	█							
ROAD CONSTRUCTION AND REGRADE		█	█	█	█	█	█	█
PLACE SILT FENCE AROUND TOPSOIL STOCKPILES		█	█	█	█	█	█	█
PLACE SEDIMENT BARRIERS AROUND STORMWATER PITS AT COMPLETION OF DRAINAGE			█	█	█	█	█	█
PLACE STRIP TURF PARALLEL TO DESIGN CONTOURS ALONG ROAD AS SHOWN								█

EROSION CONTROL

1. EROSION CONTROL DEVICES AND SILTATION TRAPS TO BE INSTALLED BEFORE SITE IS DISTURBED IN ACCORDANCE WITH N.S.W. DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT GUIDELINES AND APPROVED BY COUNCIL INSPECTOR.
2. ALL PERIMETER AND CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN EARTHWORKS AND/OR CLEARING.
3. SILT TO BE REMOVED FROM TEMPORARY SEDIMENT CONTROL BASINS AS DIRECTED BY COUNCIL INSPECTOR OR DEPARTMENT OF LAND AND WATER CONSERVATION REPRESENTATIVE TO MAINTAIN SILTATION STORAGE CAPACITY IN TEMPORARY BASINS.
4. FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
5. HAY BALE BARRIERS AND GEOFABRIC FENCES ARE TO BE CONSTRUCTED TO TOE OF BATTER PRIOR TO COMMENCEMENT OF EARTHWORKS IMMEDIATELY AFTER CLEARING OF VEGETATION BEFORE REMOVAL OF TOPSOIL.
6. SANDBAGS TO BE USED DURING ROAD CONSTRUCTION TO DIVERT STORMWATER INTO PITS WHEN SUBGRADE IS UP TO KERB LEVEL.
7. ALL TEMPORARY EARTH BERMS, DIVERSION AND SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
8. CLEAN WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO DRAINAGE SYSTEM.
9. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR LOGGING. TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE APPROVED LOCATION.
10. ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR RE-USE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
11. ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END OF EACH DAY'S EARTHWORKS. THE HEIGHT OF THE LIP SHALL BE A MINIMUM OF 200mm.
12. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND MULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
13. UNDERSCRUBBING OF VEGETATION TO BE RESTRICTED TO SLASHING TO MINIMISE SOIL DISTURBANCE.
14. UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL, SOIL CONSERVATION TREATMENTS SHALL BE APPLIED TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
15. DENUDE AREAS TO BE STRIP TURF OR HYDROMULCH SEEDED WITH THE SEED MIX BELOW OR APPROVED BY DEPARTMENT OF LAND AND WATER CONSERVATION REPRESENTATIVE, WITHIN 14 DAYS OF PRACTICAL COMPLETION OF EARTHWORKS. STRIPS ARE TO BE PLACED ACROSS THE CONTOUR AT RIGHT ANGLES TO THE DIRECTION OF SLOPE.

HYDROMULCH SEEDMIXES

SUMMER MIX		AUTUMN MIX	
MATERIAL	APPLICATION RATE	MATERIAL	APPLICATION RATE
JAPANESE MILLET	30 Kg/Ha	OATS	20 Kg/Ha
COUCH	10 Kg/Ha	RYE GRASS	10 Kg/Ha
CARPET GRASS	10 Kg/Ha	RED CLOVER	5 Kg/Ha
HAIFA WHITE CLOVER	5 Kg/Ha	WHITE CLOVER	5 Kg/Ha
BINDER	200 l/Ha	COUCH	10 Kg/Ha
PULP	1000 Kg/Ha	FERTILISER ENRICHER	300 Kg/Ha
FERTILISER	300 Kg/Ha	OR	
		DYNAMIC LIFTER	1000Kg/Ha

16. THE AREA OVER ALL STORMWATER AND SEWER LINES NOT WITHIN ROAD RESERVES IS TO BE MULCHED AND SEEDED WITHIN 14 DAYS AFTER BACKFILL.
17. NO MORE THAN 150m OF TRENCH IS TO BE OPEN AT ANY ONE TIME.
18. AREAS OVER ELECTRICITY, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE SEEDED AND MULCHED BY THE RELEVANT AUTHORITY WITHIN 14 DAYS AFTER BACKFILL.
19. ALL FOOTPATHS, BERMS AND BATTERS AND SITE REGRADE AREAS ARE TO BE TOPSOILED WITH MINIMUM 75mm OF SELECTED SITE TOPSOIL AND GRASSED.
20. STRIPS OF TURF ARE TO BE PLACED IMMEDIATELY BEHIND THE KERB AND GUTTER ON ALL NEW ROADS AND AT LOCATIONS AS DETERMINED BY COUNCIL'S SUPERVISING OFFICER.
21. ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE COMPLETED PRIOR TO THE SUBDIVISION FINAL INSPECTION. ALL EROSION DEVICES ARE TO BE MAINTAINED UNTIL THE END OF THE MAINTENANCE PERIOD.

Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	A.M	I.H	09.06.22

North	Scale
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Designed A.M	Cad Reference 21360C dC29 r1
Scale 1:500	A1 SHEET
Project Approval IAN HILL (B.E) Consulting Civil Engineer	

Client

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ENGINEERING SOLUTIONS
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1 HARTLEY DRIVE, THORNTON NSW 2322
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PHONE: (02) 4964 1811

PROPOSED SUBDIVISION
442 LOUTH PARK ROAD
LOUTH PARK - HILLVIEW EAST
SOIL AND WATER MANAGEMENT DETAILS

Project No 21360C
Drawing No C29
Revision 1