PROPOSED WASTE TO ENERGY PLANT
RICHARDS ROAD
CASTLEMAINE

STANDARD NOTES AS APPLICABLE

1. All works are to be carried out in accordance with the Councils Engineering policies, Standard Drawings (as revised) and specifications to the satisfaction of Council's Supervising Officer and/or their representative.
2. All levels shown are to Australian Height Datum (AHD).
3. All coordinates are to Map Grid of Australia (MGA).
4. All dimensions are in meters unless noted otherwise.
5. The Landscaping Plans are to be endorsed as "per conditions of the planning permit" prior to approval of the Construction plans.
6. Council to be notified seven (7) clear days prior to commencement of works with a Pre-commencement Meeting being held between Council, the Consultant and the Contractor;
   i. A Site Management Plan is to be submitted prior to the Pre-commencement Meeting.
7. Where Works are in the vicinity of existing services, these services are to be located and exposed/proved prior to commencement of works and the relevant service authorities and/or their agents are to be notified seven (7) clear days prior to the commencement of works.
8. The Contractor is to obtain the necessary "Asset Protection Permit" prior to undertaking any works within a previously constructed roadway or easement.
9. The Contractor is to obtain the necessary "Building Permit" prior to constructing Retaining Walls / Structures over 1.0m in height.
10. Street Lighting design, where proposed, is to be provided and approved prior to commencement of works.
11. Prior to commencement of works, the contractor must ensure that all matters relating to The Occupational Health and Safety Act 2004 and OHS Regulations 2007 have been and will be complied with.
12. Prior to the commencement of works "the disposal site" for spoil removal from works site "and truck route" is to be submitted to and approved by Council's Supervising Officer and/or their representative in writing.
13. Prior to commencement of construction works on site, the contractor must comply with the recommendations of the Environment Protection Authority Publication "Construction Techniques for Sediment Pollution Control" as revised. This applies to appropriate Erosion & Siltation control measures to be maintained during the construction and maintenance period of the works.
14. No Tree or Vegetation is to be disturbed or removed without approval from Council and clearly denoted on Landscape and/or Construction plans. No Trees, Vegetation or other materials are to be burnt on site.
15. Trees and Vegetation to be retained are to be protected by a tree protection zone (TPZ) at all times during construction. The TPZ must be in accordance with Planning conditions or approved Arborist Report and/or Vegetation Management Plan and be clearly denoted on approved plans.

Under no circumstances shall vehicles, site sheds, plant and equipment be stored or placed within fenced zone.

16. Prior to the commencement of works, the Contractor must provide the following information;
    i. Source of Quarry Material crushed rock (CR).
    ii. N.A.T.A. approved test results for the CR that is to be used.
    iii. Should the source of Quarry Material CR change during course of works, then new test results must be provided.
17. Prior to commencing work on trenches in excess of 1.5m deep the proposal must comply with WorkSafe. A "Notice of Intention to Excavate..." form must be submitted to WorkSafe 3 days prior to the work excavations.
    - Call: 1800 136 089 toll free.
    - Emergencies Call: 13 23 60.
18. The Contractor must maintain all necessary Traffic Control Safety measures during the works.
19. All Service Conduits Trenches within the road reserve must be backfilled to a dry density not less than 95% of the maximum dry density value determined by the modified compaction test in accordance with AS 1289.5, and as specified below;
    i. Service trenches under Road Pavement, Footpath or Vehicular Crossings backfilled with 20mm 3% cement treated Class 3 crushed rock compacted.
    ii. Service trenches adjacent to road pavement or concrete structures backfilled with Class 3 crushed rock compacted.
20. All Stormwater Drains are to be reinforced concrete (RC) Class 2 rubber ring jointed (RRJ) pipes unless noted otherwise;
    i. All RC pipes up to and including 750mm dia. are to be RRJ.
    ii. Pipes larger than 750mm dia. to be interlocking flush joints external banded
    iii. All 150mm dia. Stormwater pipes are to be heavy duty sewer grade PVC unless otherwise approved.
21. Sub-soil drainage: 100mm dia. Agricultural pipe drains to be placed behind all Kerb on 20mm aggregate bedding, 200mm below subgrade and at grade and in accordance with Councils Standard Drawings.
22. Minimum cover to obvert of drainage pipes shall be 300mm in easements and 500mm in road reserves. Minimum cover (the depth) of drainage pipes in roads reserves must be greater than the design depth of sub-soil drainage, refer to "Sub-soil drainage" note (21).
23. 100mm dia. House Drain Connections to be laid at an offset of 1.0m from the low side of Title boundary as standard. Offsets greater than standard are to be dimensioned on the construction plans;
    i. House Drain Connections up to 150mm dia. to be via a manufactured junction piece. Pipes are to be heavy duty sewer grade PVC and backfilled with FCR to 150mm above top of pipe.
    ii. All connections to Councils assets are to be as per Councils Standard Drawings.
24. Fill areas are to be stripped of topsoil, filled and then topsoil replaced to obtain final fill levels as shown on approved construction plans. All filling to be clean clay compacted and tested in accordance with AS 1289.5.
25. Filling to comply with AS 3798-2007, "Level 1" supervision unless specified otherwise. Any substandard filling encountered must be promptly removed and replaced in accordance with the above requirements.

The Contractor is responsible for ensuring that all imported fill material, including additional topsoil, satisfies the description for clean fill material in EPA Bulletin Publication No. 448, as revised. The Contractor if requested is to provide soil test certificates to Council's Supervising Officer and/or their representative.

26. Blasting generally is not approved as standard, however blasting may be required as a last resort depending on ground conditions. Council is to be notified in writing if any basting is found to be necessary. Residents and Property likely to be affected by blasting and all service authorities shall be notified in writing prior to blasting works commencing. Notification letter is to include blasting procedures, likely timings and include Contractor and Consultant contact names and phone numbers. Blasting area signs must be in place at all entrances to the works site.

Works to be in accordance with AS 2187.2, and restricted to between 9.00am and 3.30pm and not to occur on public holidays.

27. Earth Batters shall be 1 in 6 minimum, evenly graded, topsoil and seeded unless otherwise specified;
28. Road pavements to be a minimum depth of 300mm including surfacing for residential streets only;
    i. Pavement depth specified is a minimum depth and may be varied by Council's Supervising Officer and/or their representative.
    ii. Soft spots must be excavated to a proof rolled base and backfilled with approved material compacted in 150mm layers to a density determined by the standard compaction test in accordance with AS 1289.5.
    iii. Subbase pavement component to be 100mm wider than the outside of Kerb or Edging strip widths.
29. Kerb types shall be as specified in accordance with the Council Standard Drawings. Kerb transition lengths between different kerb types are to be over 3.0m if it cannot be achieved at a pram ramp crossing or vehicle crossover.
30. Vehicle Driveways & Crossovers;
    i. Residential Vehicle Crossings to be constructed in accordance with Councils Standard Drawings. Maximum number of crossings to a residential property is 2, providing crossing width is maximum 3.5m each and a separation of 8m is achieved.
    ii. Rural Vehicle Crossings to be constructed in accordance with Councils Standard Drawings. Unless at an obvious high point all rural crossovers are to include a pipe culvert.
    iii. Corner properties will require crossing clearances from intersections and pedestrian pram ramp crossings as per Australian Standards to the satisfaction of Council.
31. All Footpaths to be a minimum of 1.5m wide and in accordance with Councils Standard Drawings;
    i. Footpaths are to be 50mm offset from title boundaries, unless noted otherwise.
    ii. Pram ramp crossing to be in accordance with Councils Standard Drawings.
32. All new concrete works shall develop a minimum compressive strength of 25 MPa at 28 days, unless otherwise specified.
33. Exposed Aggregate Concrete works are non-standard pavement works, proposals must be approved in writing prior to commencement of works.
34. All Traffic Control Measures, Signs and Line marking must be in accordance with AS 1742.
35. All Signs erected to be Class 1 high intensity type complying with the requirements of AS 1743. Street name signs in accordance with Council requirements;
    i. All Road guide posts or delineators are to be "Rubber Hinge" type.
36. All Verges and Table drains, excavated or filled within the Road Reserve shall be resurfaced with a 100mm layer of topsoil as specified, free from clay and stone, evenly graded and seeded to the satisfaction of Council's Supervising Officer and/or their representative.;
    i. Grades 1 in 5 and steeper require a hydromulch and seed mix.
37. All Fire Hydrants are to be marked in accordance with C.F.A. and M.F.B. requirements. Markings to be via Blue raised reflective pavement marker and a marker post.
38. Open Space and Drainage Reserves to be evenly graded, seeded and free draining to the satisfaction of Council's Supervising Officer and/or their representative;
    i. Removal of topsoil from reserves during the works must be held on-site and reinstated as specified.
    ii. Design information to include; Potable Water supply in underground pit configuration, bollards, fencing, seating, shading & playground equipment and BBQ's etc. where required by the permit.
39. On Practical Completion the Contractor is responsible for;
    i. The reinstatement of Existing Assets affected by the works.
    ii. The removal of all redundant Assets, Building waste, Rubbish and Spoil from the site.
    iii. Non trafficable measures of areas for grass establishment to the satisfaction of Council's Supervising Officer and/or their representative.
40. As-Constructed Data including variations during construction works is to be provided prior to the issue of Statement of Compliance;
    i. Drawings are to be in A1 and A3 hardcopy for print in AutoCAD (2010) and Acrobat PDF formats.
41. Prior to the End of Defects liability period Grass is to be established as per Council guidelines, unless otherwise agreed in writing.
42. HOLD POINT inspections are to be arranged for approval by Council's Supervising Officer and/or their representative. The Consultant and/or Contractor to be present at Hold Points;

1) Pre-commencement Works meeting.
2) Erosion & Siltation control measures constructed.
3) Prior to Trench backfilling;
   I. Stormwater drainage pipes and pits, including subsoil AG drains,
   II. Property/House connections.
4) Road Subgrade proof-roll prior to placement of sub-base.
5) Road Sub-base proof-roll prior to placement of base course.
6) Road Base Course proof-roll prior to sealing.
7) Prior to placement of concrete for Kerb and channel, footpaths and vehicle crossings.
8) Practical Completion Inspection (allows commencement of Defects Liability Period).
9) End of Defects Liability Inspection.

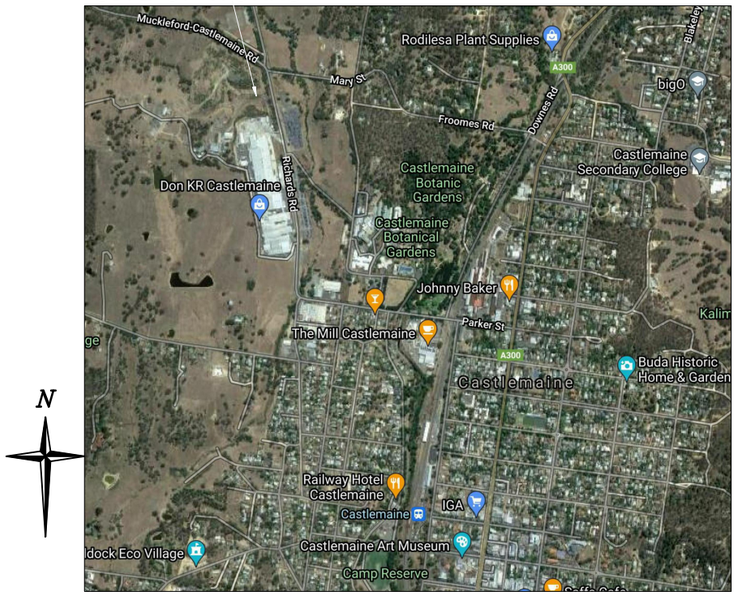
Following inspections may also to be carried out by Council's Supervising Officer and/or their representative;

- Inspection of traffic control safety measures in accordance with the Site Management Plans.
- Inspection of works in accordance with endorsed Landscape plans.
- Any other inspections as determined by the Council.

Additional notes:

1. Provide compaction tests for all layers (sub-grade 98% MMDD, sub-base 98% and base 100% MMDD).
2. All nature strips and swales to be shaped and consist of imported (clean – free from clay, debris, construction materials) 100mm topsoil and hydro seeded – including all construction areas.
3. Broom finish for all concrete surfaces.
4. CCTV all stormwater pipes prior to PC and prior to end of defects inspection.
5. All Junction pits to have lightweight composite pit lids.
6. All pits to be rendered and mortared, pipes cut flush with pit wall and cleaned.
7. Pits to have flat base (no chase).

SITE OF WORKS



LOCALITY PLAN

NTS

DWG	DESCRIPTION	ISSUE
C1	FACE SHEET, LOCALITY PLAN, INDEX & NOTES	B
C2	EXISTING CONDITIONS PLAN	B
C3	FUNCTIONAL LAYOUT PLAN	B
C4	DESIGN PLAN	B
C5	TYPE CROSS SECTION	B
C6	SITE CUT AND FILL PLAN	B
C100	NORTH EXIT ROAD: LONGITUDINAL SECTION	B
C101	NORTH EXIT ROAD CROSS SECTIONS 1/4	B
C102	NORTH EXIT ROAD CROSS SECTIONS 2/4	B
C103	NORTH EXIT ROAD CROSS SECTIONS 3/4	B
C104	NORTH EXIT ROAD CROSS SECTIONS 4/4	B
C110	SOUTH ENTRY ROAD: LONGITUDINAL SECTION	B
C111	SOUTH ENTRY ROAD CROSS SECTIONS 1/3	B
C112	SOUTH ENTRY ROAD CROSS SECTIONS 2/3	B
C113	SOUTH ENTRY ROAD CROSS SECTIONS 3/3	B
C120	LINK ROAD 1: LONGITUDINAL SECTION	B
C121	LINK ROAD 1 CROSS SECTIONS 1/2	B
C122	LINK ROAD 1 CROSS SECTIONS 2/2	B

79 AITKEN STREET
GISBORNE 3437

PHONE (03) 5428 3266

Consulting **Engineers** Pty. Ltd.

ATTENTION TO CONTRACTOR

1. IN ACCORDANCE WITH CLAUSE 15 OF AS2124-1992, THE CONTRACTOR MUST ENSURE THE SAFETY OF THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PEOPLE WHO ARE ON OR ADJACENT TO THE SITE. THE CONTRACTOR MUST COMPLY WITH THE VICTORIAN OCCUPATIONAL HEALTH AND SAFETY ACT.
2. THE CONTRACTOR MUST ENSURE THAT ALL PEOPLE EMPLOYED ON THE SITE WEAR APPROVED SAFETY APPAREL. THIS INCLUDES SAFETY HELMETS, SAFETY BOOTS, EAR AND EYE PROTECTION, WHERE APPROPRIATE.
3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING & DEPTHING ALL EXISTING SERVICES IN WORKS AFFECTED AREAS PRIOR TO COMMENCING ANY WORKS. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY DAMAGE TO EXISTING SERVICES.
4.. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECCESSARY TO COMPLETE THE PROJECT. i.e. ROAD OPENING PERMIT IF REQUIRED FROM RELEVANT SHIRE COUNCIL ETC.
5. THE DEPTHS SHOWN TO INVERTS ARE APPROXIMATE ONLY, CONTRACTOR SHALL WORK FROM TBM FOR ACCURATE INVERT LEVELS
6. CONTRACTOR MUST HAVE FILLED OUT CONTRACTOR EXPERIENCE FORM & PROVIDED MINIMUM FIVE (5) DAYS NOTICE BEFORE ANY WORKS COMMENCE.
7. THE CONTRACTOR MUST RESTRICT SEDIMENT DISCHARGES FROM ANY CONSTRUCTION SITES WITHIN THE PROPERTY IN ACCORDANCE WITH CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL (EPA 1991) AND ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES (EPA 1995).

LEGEND

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: FACE SHEET, LOCALITY PLAN, INDEX & NOTES

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED JB | CHECKED SW

DRAWN MT | DATE ??/??

79 AITKEN STREET
GISBORNE 3437

PHONE (03) 5428 3266

Consulting **Engineers** Pty. Ltd.

BRICSCAD FILE: 1325201

NTS

BCS REF: 13252/21

CLIENT REF:

DRAWING NUMBER: C1

REV: B



LEGEND

- EXISTING TREE
- E-OH — ELECTRICITY O/H
- T — TELECOM
- S — (S) — S — EX SEWER & MAINTENANCE HOLE
- FENCE
- FOLIAGE OR PLANTATION
- (1) DRAINAGE LINE AND PIT
- EMBANKMENT
- DRAIN INVERT

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: EXISTING CONDITIONS PLAN

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED JB | CHECKED SW

DRAWN MT | DATE ??/??

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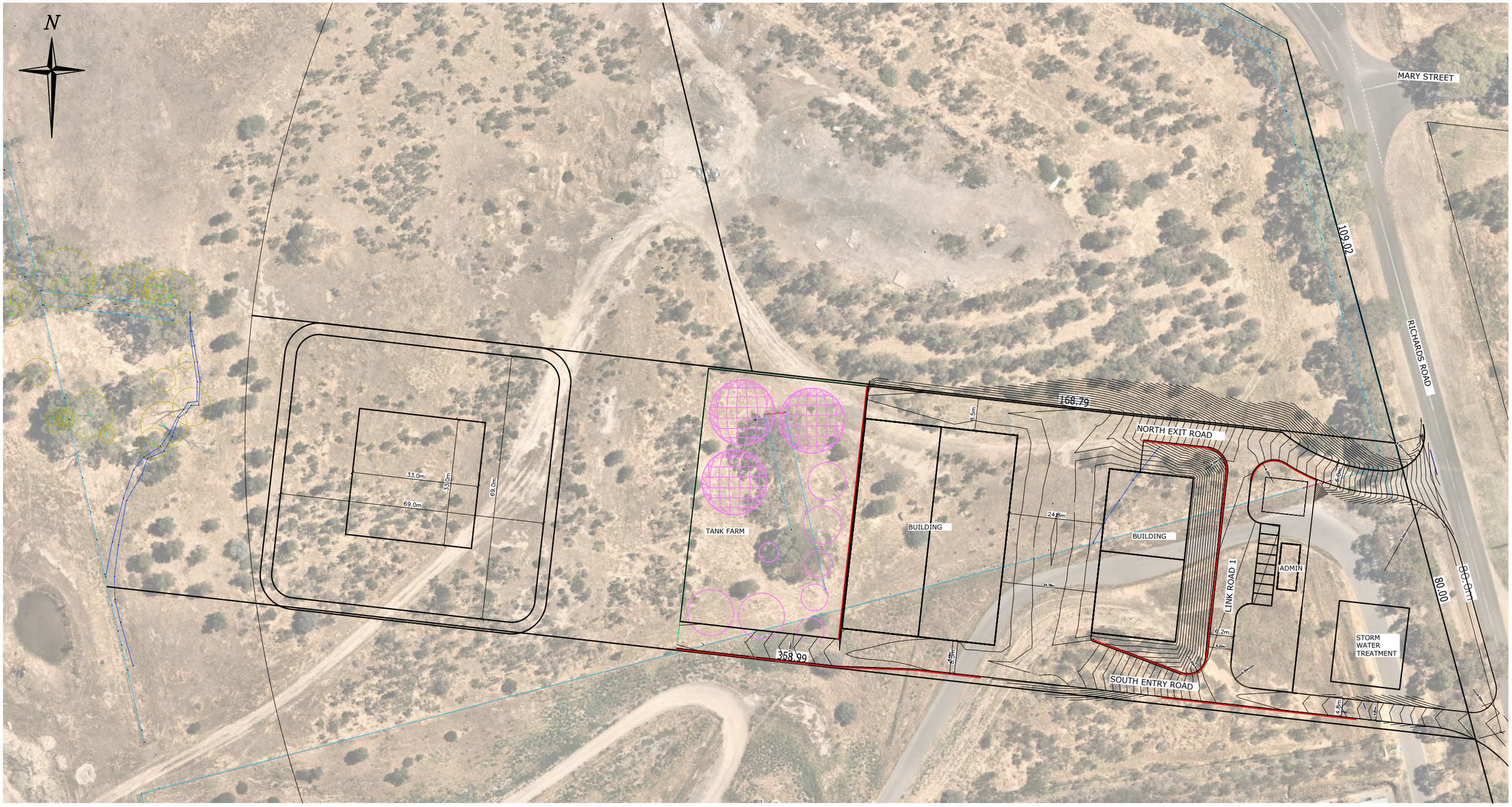
SCALES AS SHOWN

BCS REF: 13252/21

CLIENT REF:

DRAWING NUMBER: C2

REV: B



FUNCTIONAL LAYOUT PLAN

0 5 10 15 20 25m
1:500

LEGEND

- EXISTING TREE
- E-OH ELECTRICITY O/H
- T TELECOM
- S EX SEWER & MAINTENANCE HOLE
- FENCE
- FOLIAGE OR PLANTATION
- 1 DRAINAGE LINE AND PIT
- EMBANKMENT
- DRAIN INVERT

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: FUNCTIONAL PLAN

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED JB | CHECKED SW

DRAWN MT | DATE ??/??

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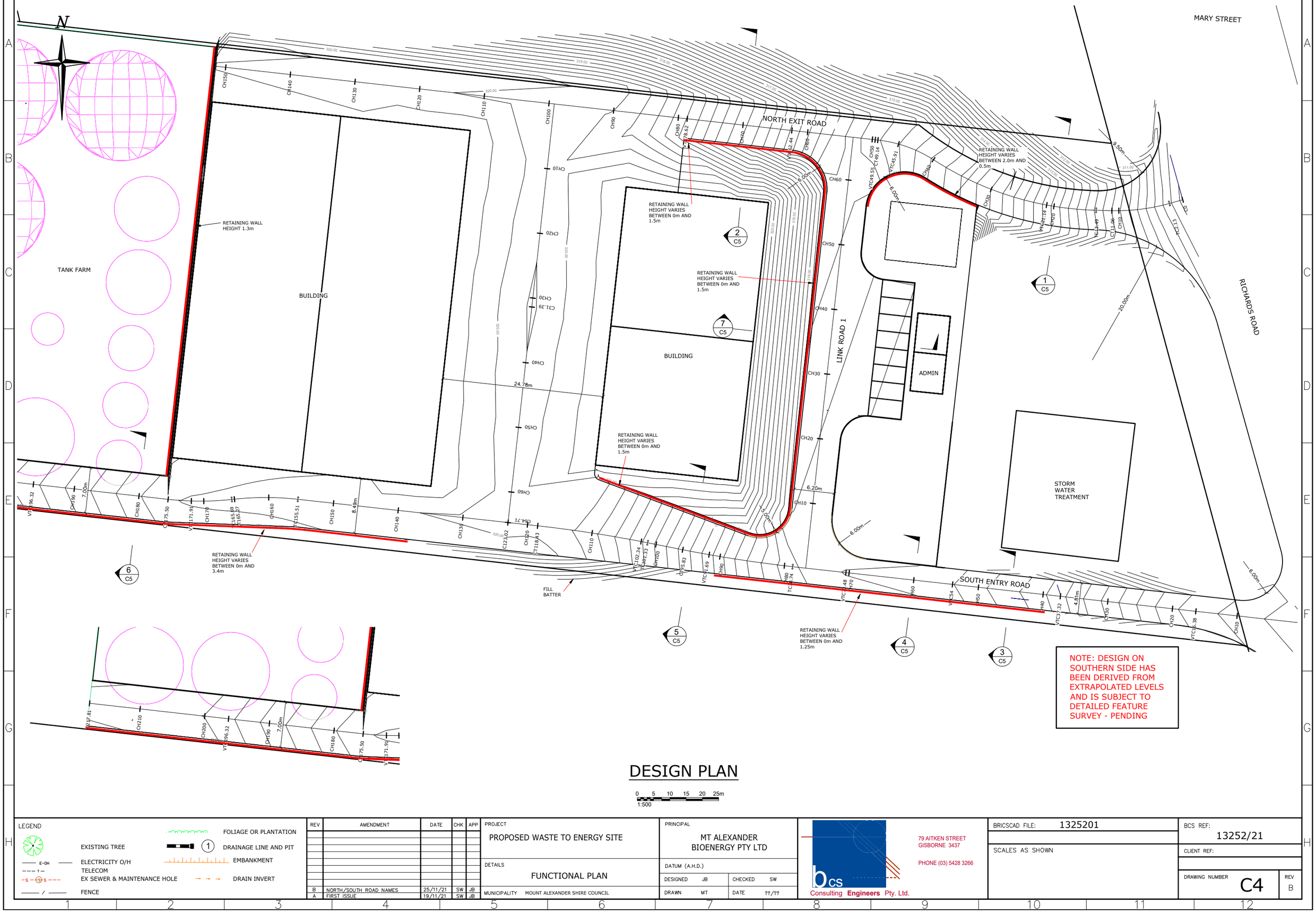
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CLIENT REF:

DRAWING NUMBER: C3

REV: B



NOTE: DESIGN ON SOUTHERN SIDE HAS BEEN DERIVED FROM EXTRAPOLATED LEVELS AND IS SUBJECT TO DETAILED FEATURE SURVEY - PENDING

DESIGN PLAN

0 5 10 15 20 25m
1:500

LEGEND

- EXISTING TREE
- E-OH — ELECTRICITY O/H
- TELECOM
- S — EX SEWER & MAINTENANCE HOLE
- FENCE
- FOLIAGE OR PLANTATION
- 1 DRAINAGE LINE AND PIT
- EMBANKMENT
- DRAIN INVERT

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: FUNCTIONAL PLAN

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED JB | CHECKED SW

DRAWN MT | DATE ??/??

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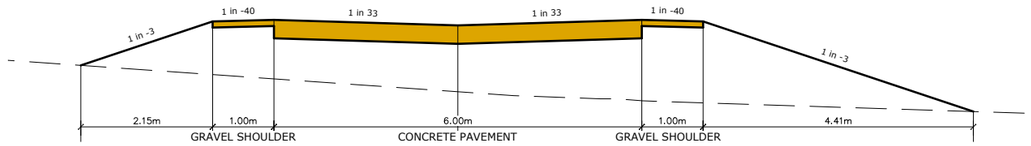
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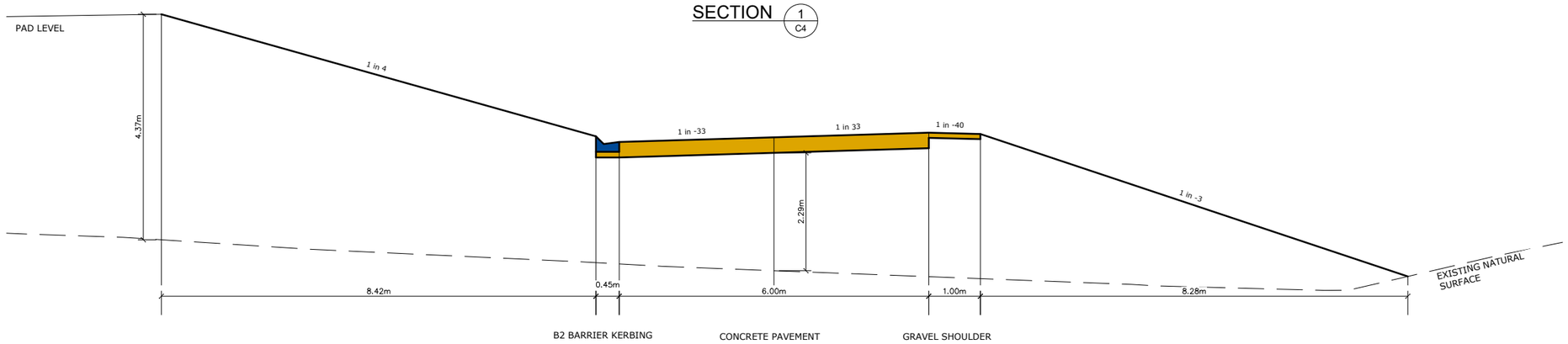
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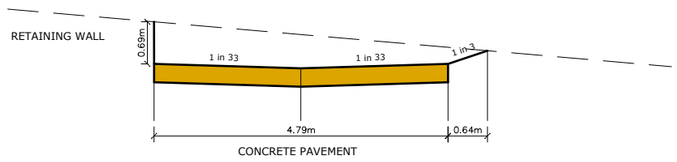
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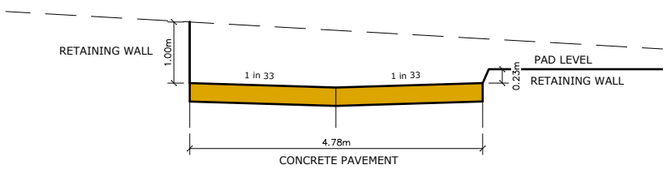
SECTION 1 C4



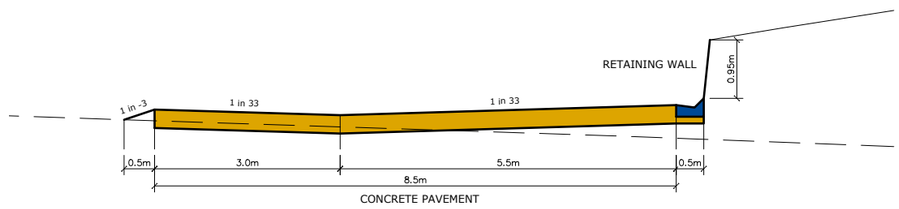
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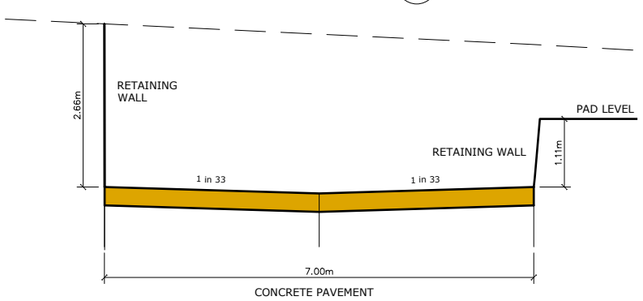
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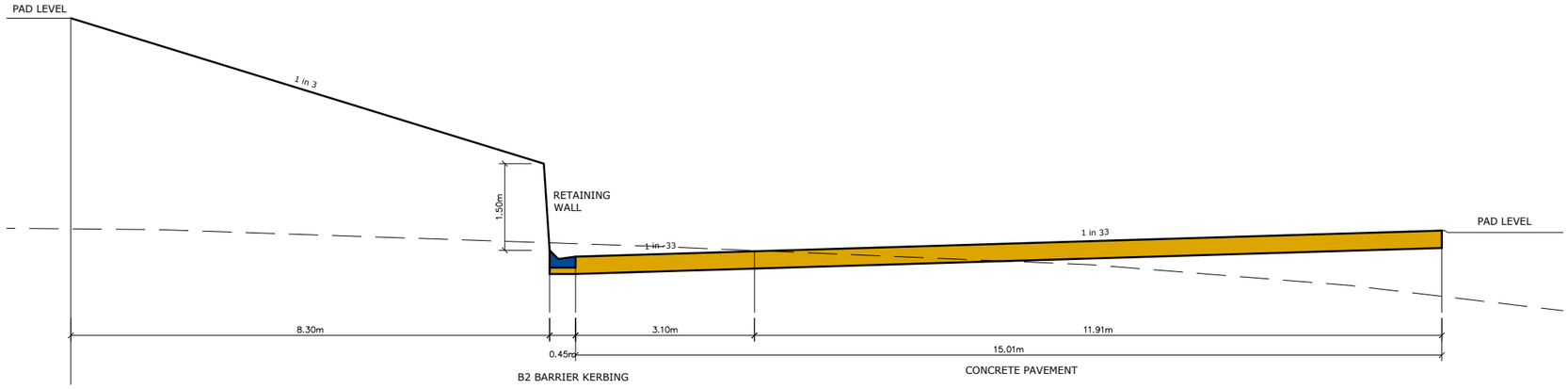
SECTION 4 C4



SECTION 5 C4



SECTION 6 C4



SECTION 7 C4

LEGEND

- EXISTING TREE
- E-OH — ELECTRICITY O/H
- T — TELECOM
- S — S — EX SEWER & MAINTENANCE HOLE
- / — FENCE
- FOLIAGE OR PLANTATION
- 1 DRAINAGE LINE AND PIT
- EMBANKMENT
- DRAIN INVERT

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: TYPE CROSS SECTIONS

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED	JB	CHECKED	SW
DRAWN	MT	DATE	??/??

bcs Consulting Engineers Pty. Ltd.
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GISBORNE 3437
PHONE (03) 5428 3266

BRICSCAD FILE: 1325201

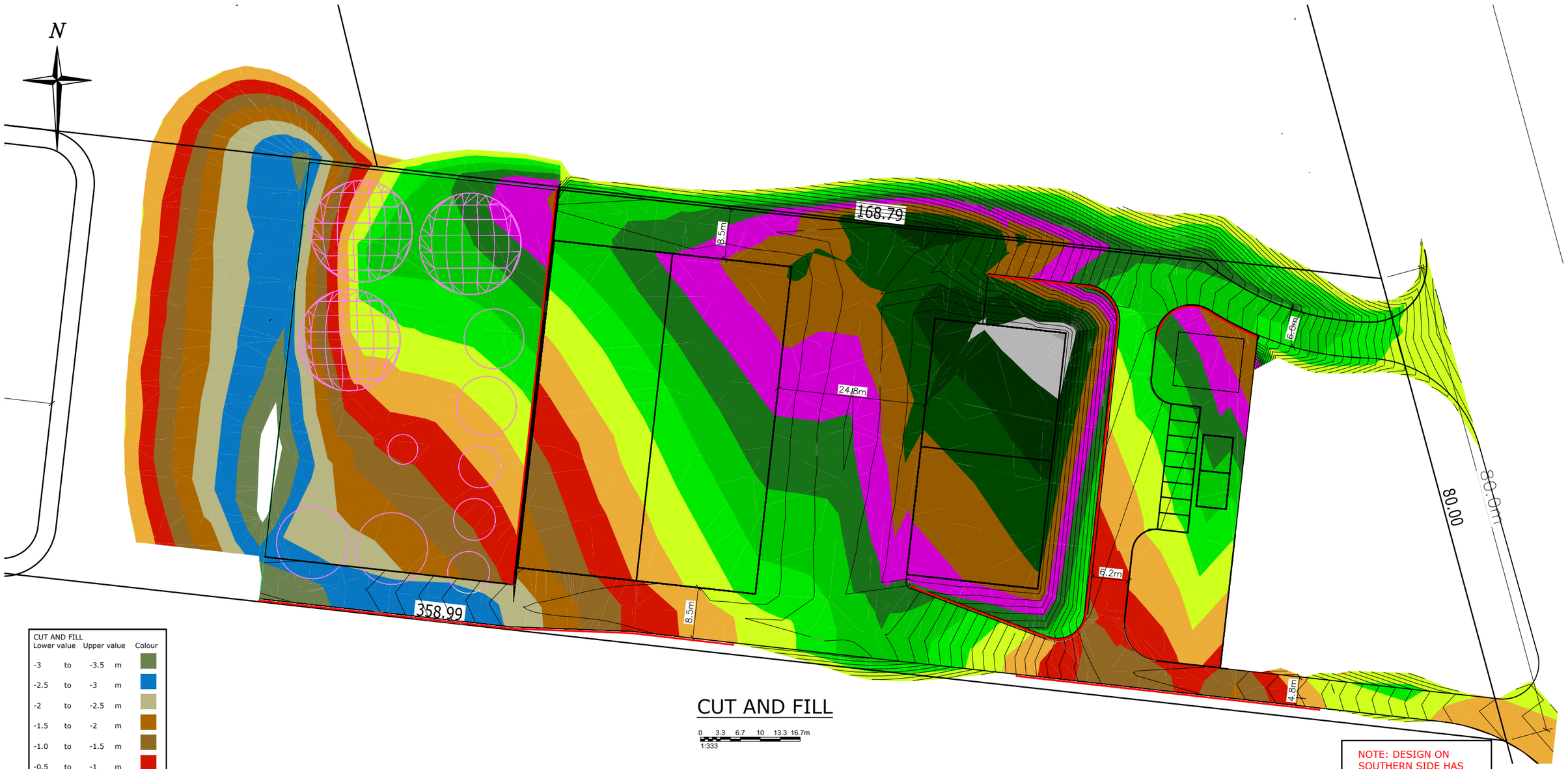
SCALES AS SHOWN

BCS REF: 13252/21

CLIENT REF:

DRAWING NUMBER: C5

REV: B



CUT AND FILL

0 3.3 6.7 10 13.3 16.7m
1:333

CUT AND FILL

Lower value		Upper value		Colour
-3	to	-3.5	m	
-2.5	to	-3	m	
-2	to	-2.5	m	
-1.5	to	-2	m	
-1.0	to	-1.5	m	
-0.5	to	-1	m	
0.00	to	-0.5	m	
0.000	to	0.5	m	
0.5	to	1.0	m	
1.0	to	1.5	m	
1.5	to	2.0	m	
2.0	to	2.5	m	
2.5	to	3.0	m	
3.0	to	3.5	m	
3.5	to	4.0	m	
4.0	to	4.5	m	
4.5	to	5.0	m	

THIS COLOR INDICATES BETWEEN 2.0 TO 2.5m OF FILLING

CUT FILL VOLUMES APPROX
VOLUMES ARE TO FINISHED SURFACE AND DO NOT ACCOUNT FOR SITE STRIPPING NOR PAVEMENT BOXING

CUT VOLUME = 8,000m³
FILL VOLUME = 16,200m³

NOTE: DESIGN ON SOUTHERN SIDE HAS BEEN DERIVED FROM EXTRAPOLATED LEVELS AND IS SUBJECT TO DETAILED FEATURE SURVEY - PENDING

LEGEND

- EXISTING TREE
- E-DH ELECTRICITY O/H
- T TELECOM
- S EX SEWER & MAINTENANCE HOLE
- FENCE
- FOLIAGE OR PLANTATION
- 1 DRAINAGE LINE AND PIT
- EMBANKMENT
- DRAIN INVERT

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: SITE CUT AND FILL

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED	JB	CHECKED	SW
DRAWN	MT	DATE	??/??

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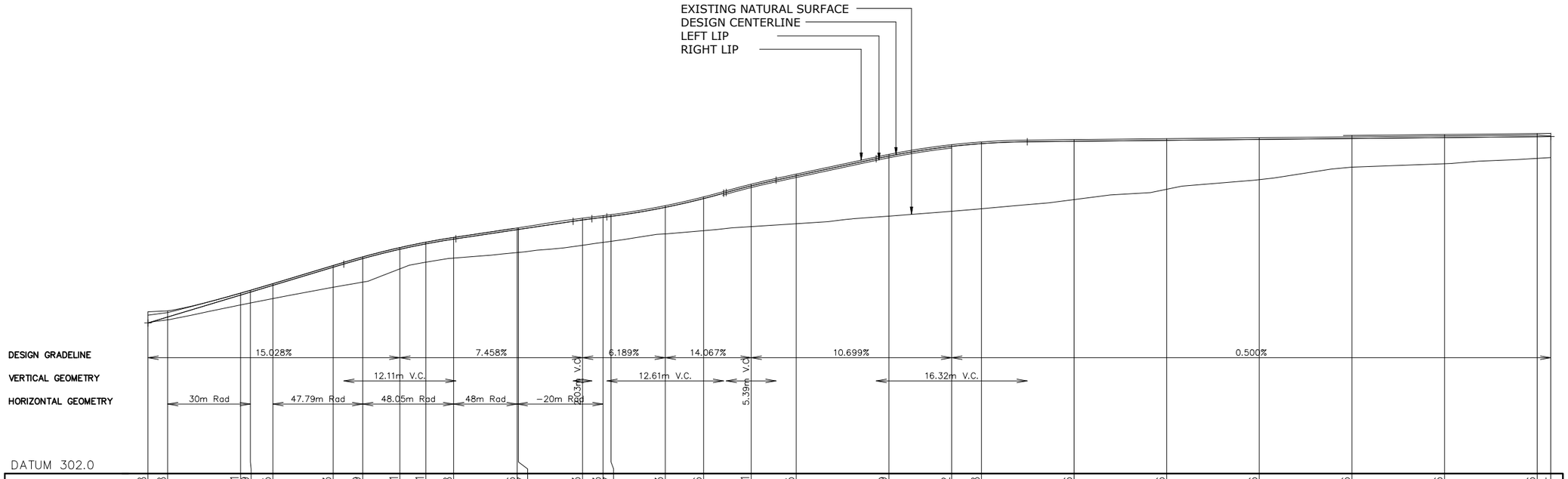
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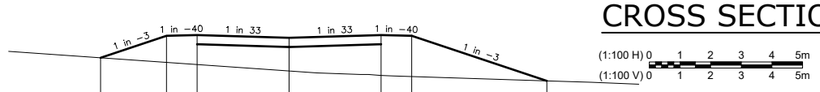
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REV: B


EXISTING NATURAL SURFACE
DESIGN CENTERLINE
LEFT LIP
RIGHT LIP
DESIGN GRADELINE
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
15.028%
7.458%
6.189%
14.067%
10.699%
0.500%
12.11m V.C.
12.61m V.C.
16.32m V.C.
5.39m V.C.
30m Rad
47.79m Rad
48.05m Rad
48m Rad
−20m Rad
DATUM 302.0

| | | |

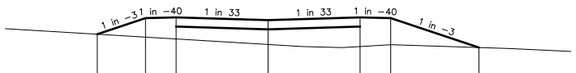
CROSS SECTIONS



DATUM RL 311.00

DESIGN SURFACE LEVEL	312.482	313.198	313.223	313.133	313.223	313.198	311.729
EXISTING SURFACE LEVEL	312.482	312.331	312.262	312.052	311.905	311.87	311.729
OFFSET	−6.15	−4	−3	0	3	4	8.408

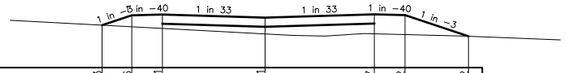
CH 20



DATUM RL 310.00

DESIGN SURFACE LEVEL	311.923	312.447	312.472	312.382	312.472	312.447	311.488
EXISTING SURFACE LEVEL	311.923	311.828	311.768	311.588	311.521	311.581	311.488
OFFSET	−5.572	−4	−3	0	3	4	6.877

CH 15



DATUM RL 310.00

DESIGN SURFACE LEVEL	311.383	311.706	311.731	311.631	311.737	311.712	311.022
EXISTING SURFACE LEVEL	311.383	311.331	311.278	311.098	311.103	311.078	311.022
OFFSET	−5.318	−4.349	−3.349	0	3.564	4.564	6.636

CH 10



DATUM RL 309.00

DESIGN SURFACE LEVEL	310.861	311.042	311.067	310.879	311.053	311.028	310.551
EXISTING SURFACE LEVEL	310.861	310.841	310.805	310.578	310.602	310.581	310.551
OFFSET	−7.792	−7.25	−6.25	0	5.802	6.802	8.234

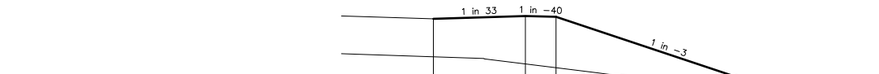
CH 5



DATUM RL 309.00

DESIGN SURFACE LEVEL	310.738	310.701	310.726	310.128	310.546	310.521	310.176
EXISTING SURFACE LEVEL	310.738	310.729	310.649	310.128	310.155	310.165	310.176
OFFSET	−21.066	−20.956	−19.956	0	13.945	14.945	15.979

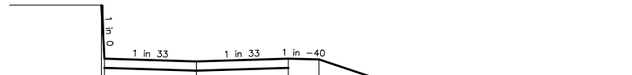
CH 0



DATUM RL 312.00

DESIGN SURFACE LEVEL	315.17	315.26	315.235		312.823
EXISTING SURFACE LEVEL	313.93	313.698	313.575		312.823
OFFSET	0	3.001	4.001		11.236

CH 40



DATUM RL 311.00

DESIGN SURFACE LEVEL	316.632	314.887	314.797	314.887	314.862		312.523
EXISTING SURFACE LEVEL	313.767	313.765	313.704	313.426	313.299		312.523
OFFSET	−3.098	3	0	3	4		11.018

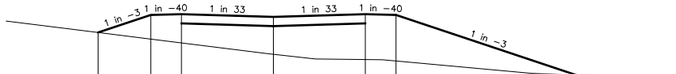
CH 35



DATUM RL 311.00

DESIGN SURFACE LEVEL	314.456	314.481	314.391	314.481	314.456		312.195
EXISTING SURFACE LEVEL	313.64	313.611	313.405	313.022	312.903		312.195
OFFSET	−4	−3	0	3	4		10.784

CH 30



DATUM RL 311.00

DESIGN SURFACE LEVEL	313.33	313.903	313.928	313.838	313.928	313.903	311.93
EXISTING SURFACE LEVEL	313.33	313.116	312.991	312.62	312.448	312.401	311.93
OFFSET	−5.72	−4	−3	0	3	4	9.92

CH 25

LEGEND

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: NORTH EXIT ROAD CROSS SECTIONS 1/4

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED JB | CHECKED SW

DRAWN MT | DATE ??/??

bcs Consulting Engineers Pty. Ltd.
79 AITKEN STREET
GISBORNE 3437
PHONE (03) 5428 3266

BRICSCAD FILE: 1325201

SCALES AS SHOWN

BCS REF: 13252/21

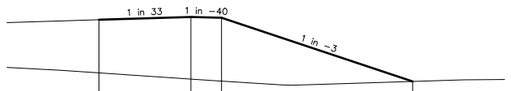
CLIENT REF:

DRAWING NUMBER: C101

REV: B

CROSS SECTIONS

(1:100 H) 0 1 2 3 4 5m
(1:100 V) 0 1 2 3 4 5m



DATUM RL 314.00

DESIGN SURFACE LEVEL	316.836		316.926	316.901		314.824
EXISTING SURFACE LEVEL	315.104		314.901	314.834		314.824
OFFSET	0		3	4		10.232

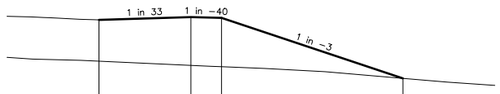
CH 60



DATUM RL 313.00

DESIGN SURFACE LEVEL	316.279		316.369	316.344		314.314
EXISTING SURFACE LEVEL	314.907		314.728	314.668		314.314
OFFSET	0		3	4		10.088

CH 55



DATUM RL 313.00

DESIGN SURFACE LEVEL	315.877		315.967	315.942		313.971
EXISTING SURFACE LEVEL	314.53		314.394	314.35		313.971
OFFSET	0		3	4		9.915

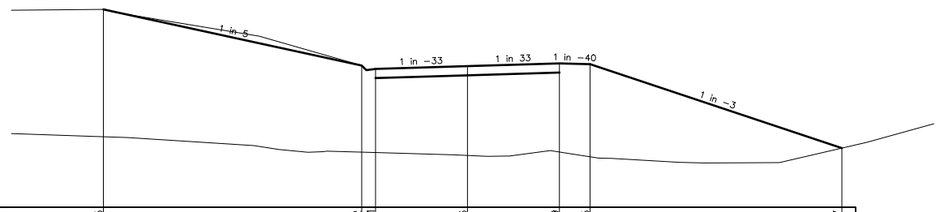
CH 50



DATUM RL 312.00

DESIGN SURFACE LEVEL	315.543		315.648	315.623		313.259
EXISTING SURFACE LEVEL	314.179		313.93	313.825		313.259
OFFSET	0		3.501	4.501		11.592

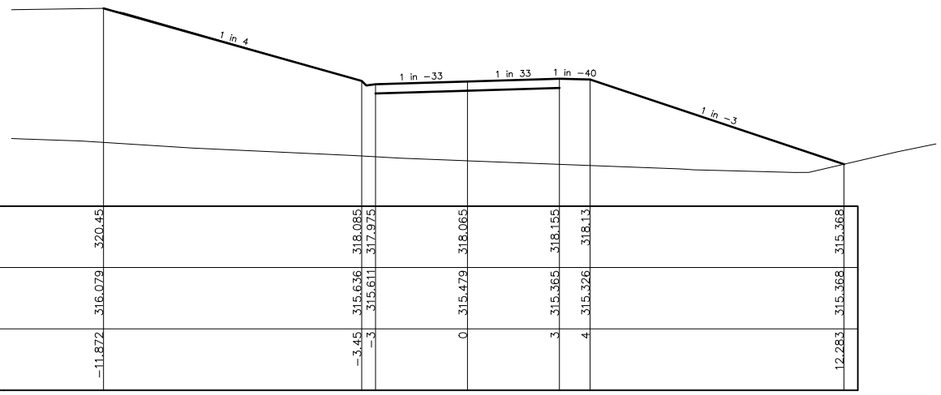
CH 45



DATUM RL 314.00

DESIGN SURFACE LEVEL	320.45		318.62	318.51	318.6	318.69	318.665	315.927
EXISTING SURFACE LEVEL	316.238		315.795	315.782	315.687	315.799	315.643	315.927
OFFSET	-11.877		-3.45	-3	0	3	4	12.212

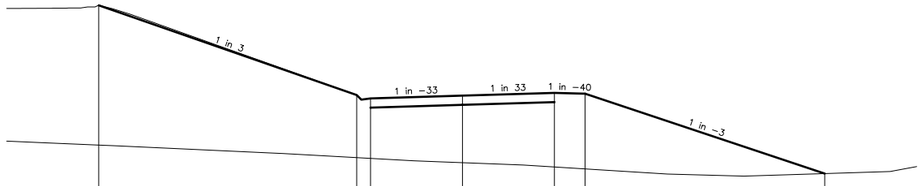
CH 75



DATUM RL 314.00

DESIGN SURFACE LEVEL	320.45		318.085	317.975	318.065	318.155	318.13	315.368
EXISTING SURFACE LEVEL	316.079		315.636	315.611	315.479	315.365	315.326	315.368
OFFSET	-11.872		-3.45	-3	0	3	4	12.283

CH 70



DATUM RL 314.00

DESIGN SURFACE LEVEL	320.45		317.525	317.415	317.505	317.595	317.57	314.964
EXISTING SURFACE LEVEL	315.893		315.484	315.459	315.319	315.179	315.116	314.964
OFFSET	-11.868		-3.45	-3	0	3	4	11.817

CH 65

LEGEND

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: NORTH EXIT ROAD CROSS SECTIONS 2/4

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED	JB	CHECKED	SW
DRAWN	MT	DATE	??/??

bcs Consulting Engineers Pty. Ltd.
79 AITKEN STREET
GISBORNE 3437
PHONE (03) 5428 3266

BRICSCAD FILE: 1325201

SCALES AS SHOWN

BCS REF: 13252/21

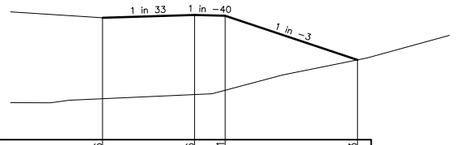
CLIENT REF:

DRAWING NUMBER: C102

REV: B

CROSS SECTIONS

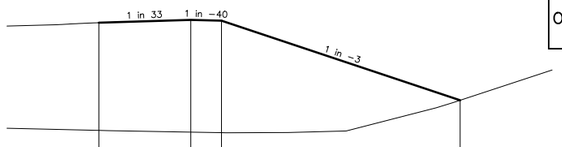
(1:100 H) 0 1 2 3 4 5m
(1:100 V) 0 1 2 3 4 5m



DATUM RL 316.00

DESIGN SURFACE LEVEL	319.976	320.066	320.041	318.603
EXISTING SURFACE LEVEL	317.337	317.471	317.613	318.603
OFFSET	0	3	4	8.315

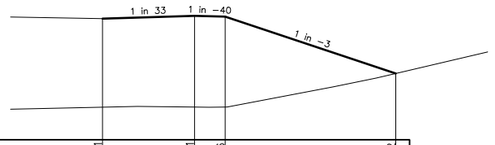
CH 110



DATUM RL 315.00

DESIGN SURFACE LEVEL	319.8	319.89	319.865	317.27
EXISTING SURFACE LEVEL	316.287	316.231	316.213	317.27
OFFSET	0	3	4	11.786

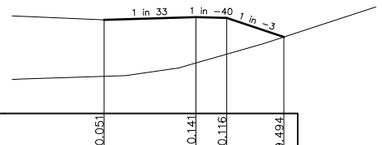
CH 90



DATUM RL 316.00

DESIGN SURFACE LEVEL	319.951	320.041	320.016	318.162
EXISTING SURFACE LEVEL	317.064	317.067	317.068	318.162
OFFSET	0	3	4	9.564

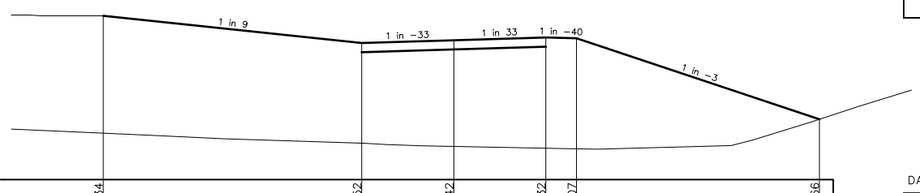
CH 105



DATUM RL 317.00

DESIGN SURFACE LEVEL	320.051	320.141	320.116	319.494
EXISTING SURFACE LEVEL	318.212	318.646	318.932	319.494
OFFSET	0	3	4	5.868

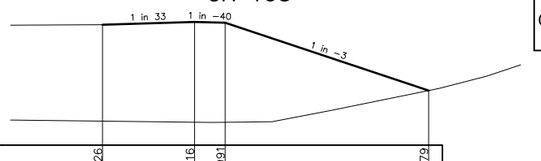
CH 125



DATUM RL 315.00

DESIGN SURFACE LEVEL	320.34	319.452	319.542	319.632	319.607	316.966
EXISTING SURFACE LEVEL	316.512	316.186	316.08	316.021	316.002	316.966
OFFSET	−11.436	−3.006	0	3	4	11.926

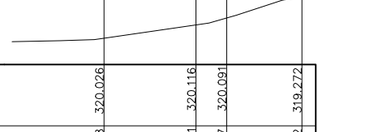
CH 85



DATUM RL 316.00

DESIGN SURFACE LEVEL	319.926	320.016	319.991	317.779
EXISTING SURFACE LEVEL	316.781	316.746	316.745	317.779
OFFSET	0	3	4	10.637

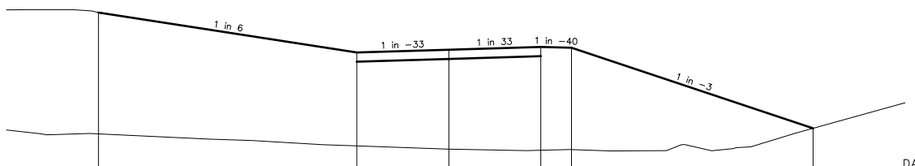
CH 100



DATUM RL 317.00

DESIGN SURFACE LEVEL	320.026	320.116	320.091	319.272
EXISTING SURFACE LEVEL	317.858	318.291	318.517	319.272
OFFSET	0	3	4	6.457

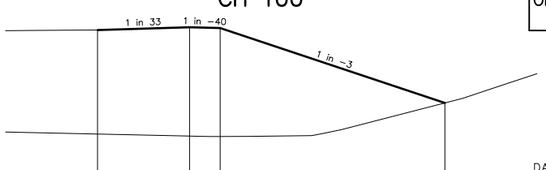
CH 120



DATUM RL 315.00

DESIGN SURFACE LEVEL	320.34	319.039	319.129	319.219	319.194	316.567
EXISTING SURFACE LEVEL	316.384	315.993	315.887	315.85	315.873	316.567
OFFSET	−11.431	−3.001	0	3	4	11.881

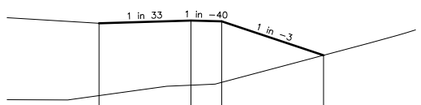
CH 80



DATUM RL 315.00

DESIGN SURFACE LEVEL	319.901	319.991	319.966	317.523
EXISTING SURFACE LEVEL	316.51	316.443	316.43	317.523
OFFSET	0	3	4	11.331

CH 95



DATUM RL 317.00

DESIGN SURFACE LEVEL	320.001	320.091	320.066	318.958
EXISTING SURFACE LEVEL	317.644	317.984	318.075	318.958
OFFSET	0	3	4	7.325

CH 115

LEGEND

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: NORTH EXIT ROAD CROSS SECTIONS 3/4

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED	JB	CHECKED	SW
DRAWN	MT	DATE	??/??

bcs Consulting Engineers Pty. Ltd.
79 AITKEN STREET
GISBORNE 3437
PHONE (03) 5428 3266

BRICSCAD FILE: 1325201

SCALES AS SHOWN

BCS REF: 13252/21

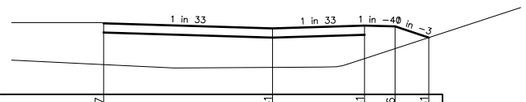
CLIENT REF:

DRAWING NUMBER: C103

REV: B

CROSS SECTIONS

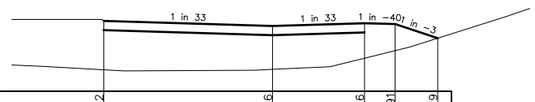
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(1:100 V) 0 1 2 3 4 5m



DATUM RL 318.00

DESIGN SURFACE LEVEL	320.317	320.151	320.241	320.216	319.851	
EXISTING SURFACE LEVEL	318.971	318.88	319.166	319.493	319.851	
OFFSET	−5.512	0	3	4	5.096	

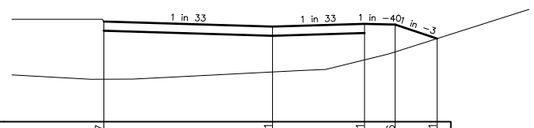
CH 145



DATUM RL 318.00

DESIGN SURFACE LEVEL	320.292	320.126	320.216	320.191	319.729	
EXISTING SURFACE LEVEL	318.699	318.714	319.076	319.322	319.729	
OFFSET	−5.507	0	3	4	5.388	

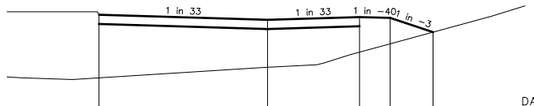
CH 140



DATUM RL 317.00

DESIGN SURFACE LEVEL	320.267	320.101	320.191	320.166	319.711	
EXISTING SURFACE LEVEL	318.384	318.622	319.016	319.277	319.711	
OFFSET	−5.503	0	3	4	5.367	

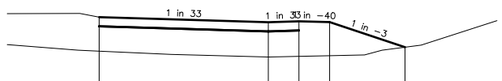
CH 135



DATUM RL 317.00

DESIGN SURFACE LEVEL	320.241	320.076	320.166	320.141	319.675	
EXISTING SURFACE LEVEL	318.185	318.53	319.023	319.295	319.675	
OFFSET	−5.498	0	3	4	5.399	

CH 130



DATUM RL 318.00

DESIGN SURFACE LEVEL	320.349	320.184	320.214	320.189	319.369	
EXISTING SURFACE LEVEL	319.24	319.048	319.07	319.091	319.369	
OFFSET	−5.517	0	1	2	4.46	

CH 151.469

LEGEND

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: NORTH EXIT ROAD CROSS SECTIONS 4/4

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED JB | CHECKED SW

DRAWN MT | DATE ??/??

bcs Consulting Engineers Pty. Ltd.
79 AITKEN STREET
GISBORNE 3437
PHONE (03) 5428 3266

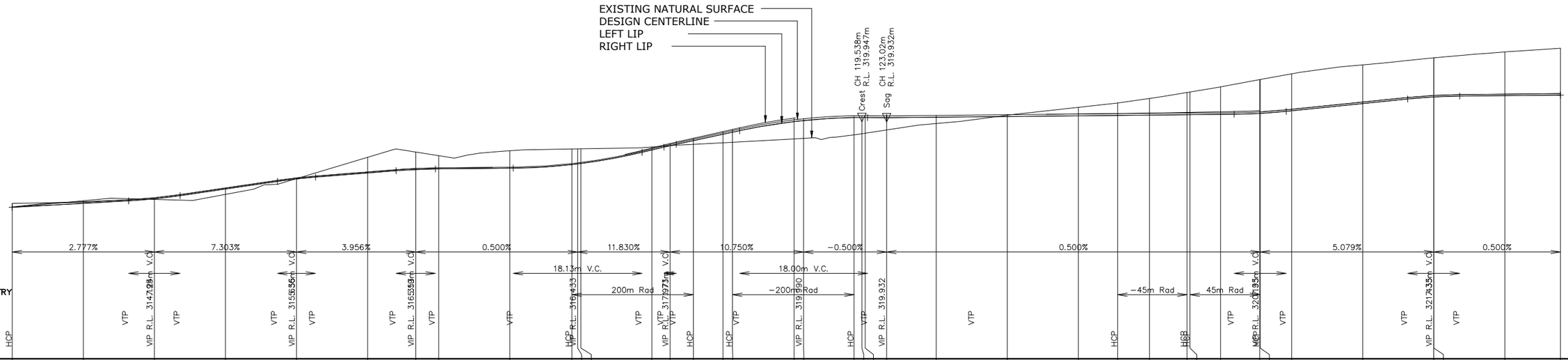
BRICSCAD FILE: 1325201

SCALES AS SHOWN

BCS REF: 13252/21

CLIENT REF:

DRAWING NUMBER C104 | REV B

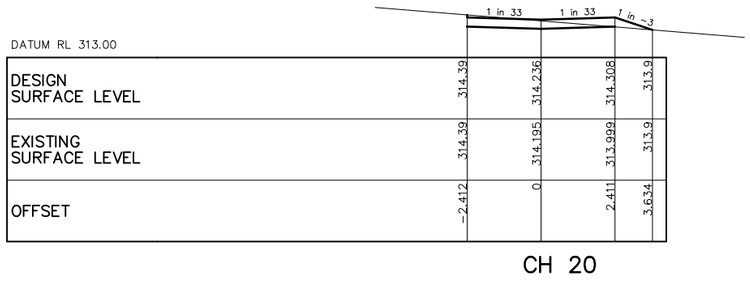

EXISTING NATURAL SURFACE
DESIGN CENTERLINE
LEFT LIP
RIGHT LIP
CH 119.538m
R.L. 319.947m
Crest
CH 123.02m
R.L. 319.932m
Sag
DESIGN GRADELINE
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
2.777%
7.303%
3.956%
0.500%
11.830%
10.750%
−0.500%
0.500%
5.079%
0.500%
18.13m V.C.
18.00m V.C.
200m Rad
−200m Rad
−45m Rad
45m Rad
HCP
VIP
VTP

DATUM 303.0

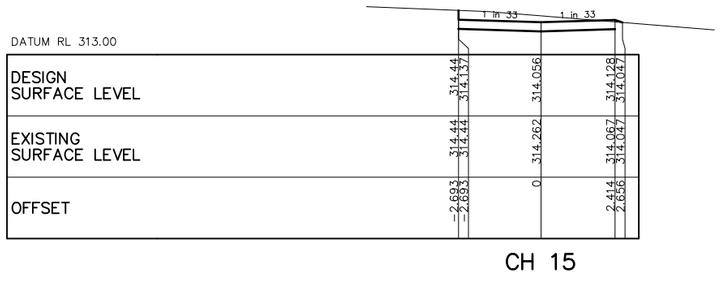
| | | |

CROSS SECTIONS

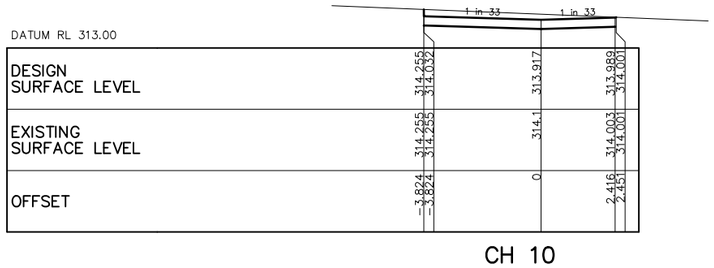
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(1:100 V) 0 1 2 3 4 5m



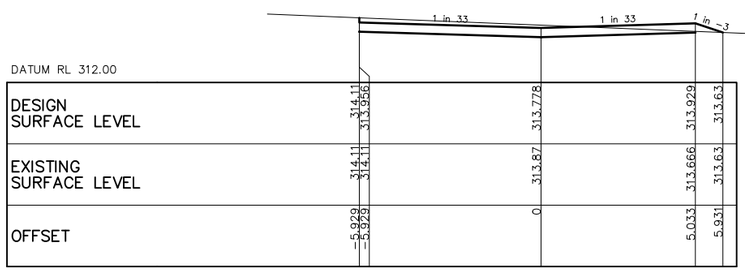
CH 20



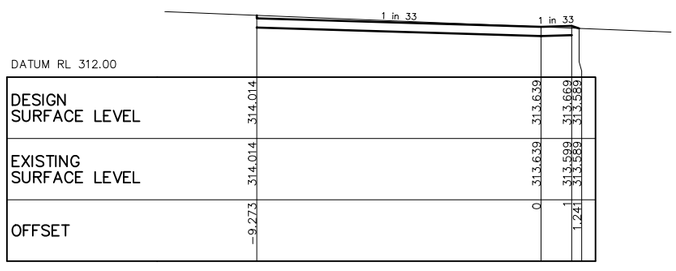
CH 15



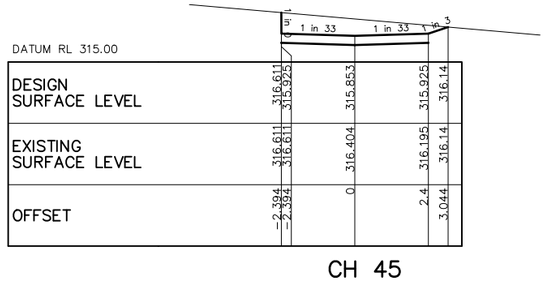
CH 10



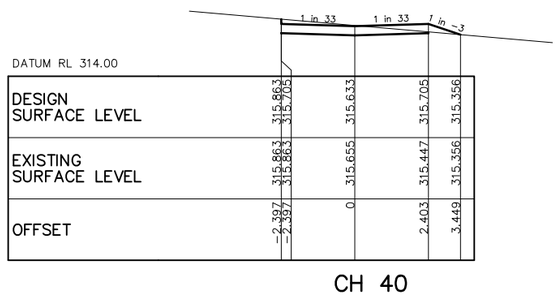
CH 5



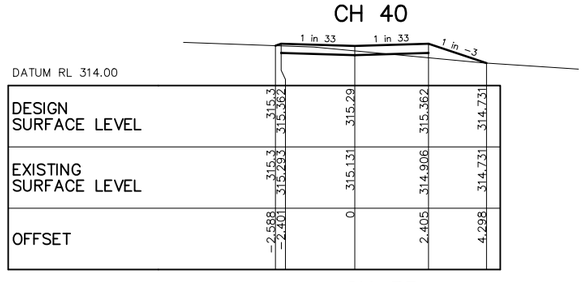
CH 0



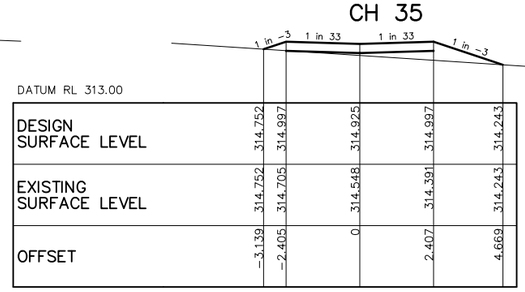
CH 45



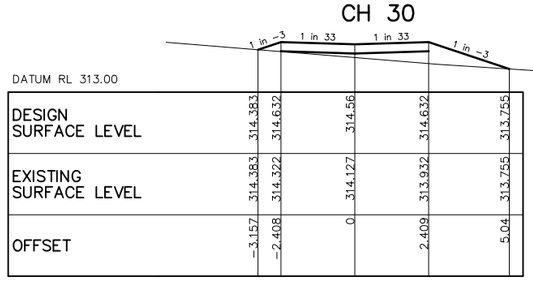
CH 40



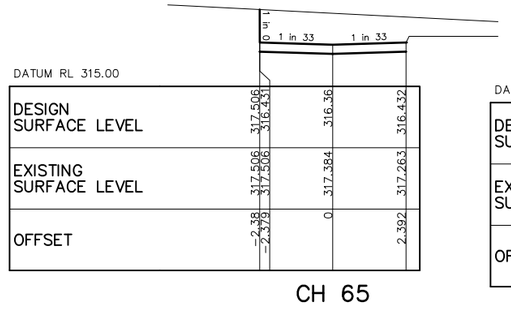
CH 35



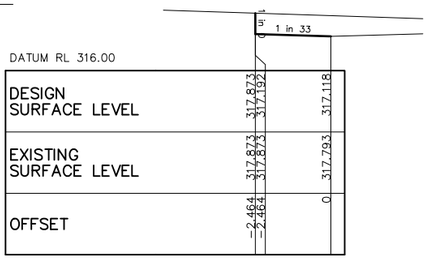
CH 30



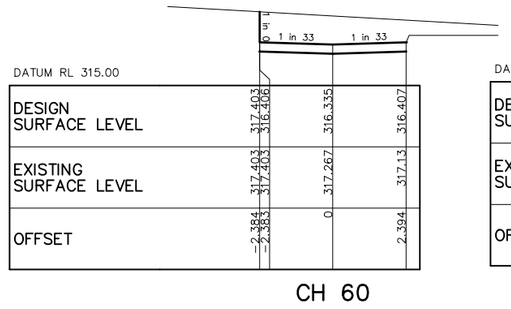
CH 25



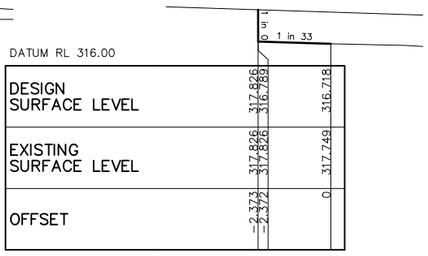
CH 65



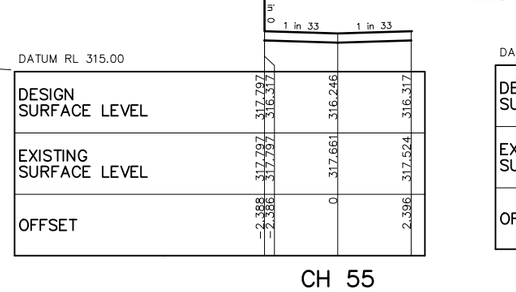
CH 85



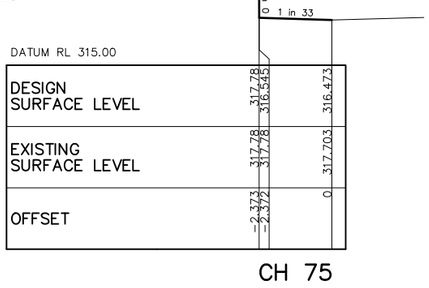
CH 60



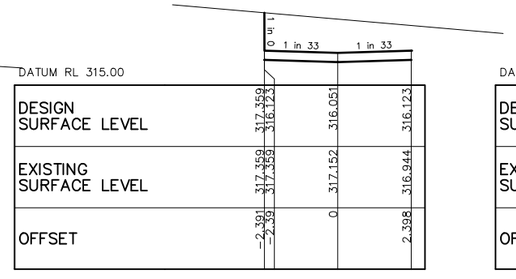
CH 80



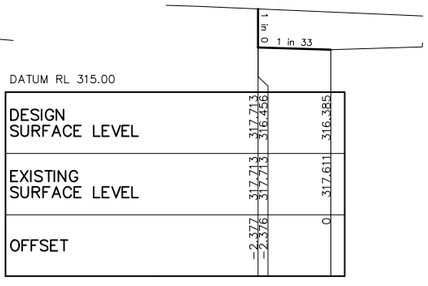
CH 55



CH 75



CH 50



CH 70

LEGEND

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: SOUTH ENTRY ROAD CROSS SECTIONS 1/3

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED	JB	CHECKED	SW
DRAWN	MT	DATE	??/??

bcs Consulting Engineers Pty. Ltd.
79 AITKEN STREET
GISBORNE 3437
PHONE (03) 5428 3266

BRICSCAD FILE: 1325201

SCALES AS SHOWN

BCS REF: 13252/21

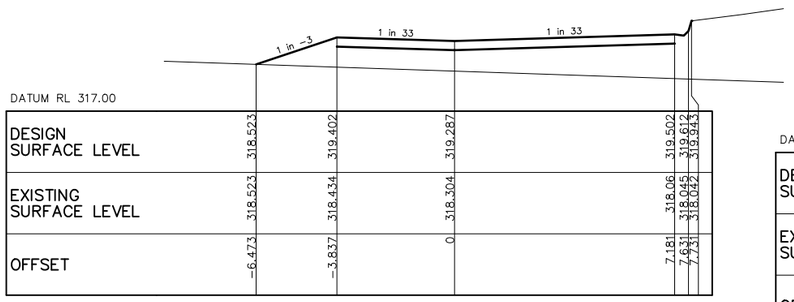
CLIENT REF:

DRAWING NUMBER: C111

REV: B

CROSS SECTIONS

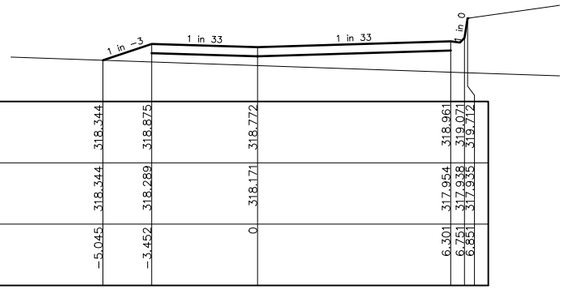
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(1:100 V) 0 1 2 3 4 5m



DATUM RL 317.00

DESIGN SURFACE LEVEL	318.523	319.402	319.287		319.502	319.612	319.944
EXISTING SURFACE LEVEL	318.523	318.434	318.304		318.06	318.045	318.092
OFFSET	-6.473	-3.837	0		7.181	7.631	7.731

CH 105



DATUM RL 317.00

DESIGN SURFACE LEVEL	318.344	318.875	318.772		318.961	319.077	319.712
EXISTING SURFACE LEVEL	318.344	318.289	318.171		317.954	317.938	317.935
OFFSET	-5.045	-3.452	0		6.301	6.751	6.851

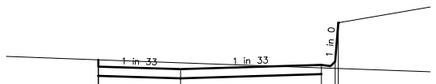
CH 100



DATUM RL 317.00

DESIGN SURFACE LEVEL	318.159	318.325	318.234		318.398	318.508	319.461
EXISTING SURFACE LEVEL	318.159	318.142	318.043		317.857	317.84	317.837
OFFSET	-3.525	-3.028	0		5.481	5.931	6.031

CH 95

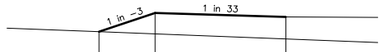


DATUM RL 316.00

DESIGN SURFACE LEVEL	317.972	317.743	317.669		317.807	317.917	319.18
EXISTING SURFACE LEVEL	317.972	317.972	317.874		317.709	317.693	317.69
OFFSET	-2.682	-2.682	0		4.595	5.045	5.145

CH 90

CH 130



DATUM RL 318.00

DESIGN SURFACE LEVEL	319.46	320.07	319.942
EXISTING SURFACE LEVEL	319.46	319.389	319.224
OFFSET	-6.094	-4.264	0

CH 125



DATUM RL 318.00

DESIGN SURFACE LEVEL	319.12	320.075	319.947
EXISTING SURFACE LEVEL	319.12	319.009	318.844
OFFSET	-7.134	-4.268	0

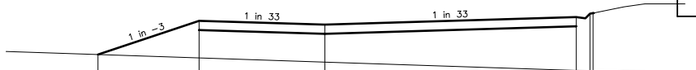
CH 120



DATUM RL 317.00

DESIGN SURFACE LEVEL	318.813	320.01	319.883
EXISTING SURFACE LEVEL	318.813	318.689	318.541
OFFSET	-7.834	-4.243	0

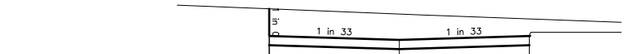
CH 115



DATUM RL 317.00

DESIGN SURFACE LEVEL	318.687	319.786	319.663	319.909	320.019	320.039
EXISTING SURFACE LEVEL	318.687	318.578	318.441	318.169	318.154	318.151
OFFSET	-7.398	-4.102	0	8.201	8.651	8.751

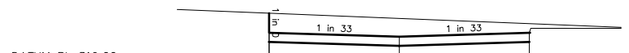
CH 110



DATUM RL 319.00

DESIGN SURFACE LEVEL	321.105	320.092	320.219
EXISTING SURFACE LEVEL	321.105	320.935	320.776
OFFSET	-4.243	0	4.241

CH 155



DATUM RL 319.00

DESIGN SURFACE LEVEL	320.832	320.067	320.194
EXISTING SURFACE LEVEL	320.832	320.682	320.492
OFFSET	-4.246	0	4.241

CH 150



DATUM RL 319.00

DESIGN SURFACE LEVEL	320.559	320.169	320.042
EXISTING SURFACE LEVEL	320.559	320.339	320.389
OFFSET	-4.25	-4.249	0

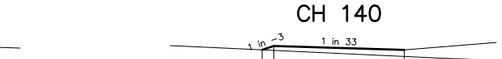
CH 145



DATUM RL 319.00

DESIGN SURFACE LEVEL	320.287	320.144	320.017
EXISTING SURFACE LEVEL	320.287	320.287	320.109
OFFSET	-4.253	-4.253	0

CH 140



DATUM RL 319.00

DESIGN SURFACE LEVEL	319.993	320.12	319.992
EXISTING SURFACE LEVEL	319.993	319.976	319.779
OFFSET	-4.636	-4.257	0

CH 135

LEGEND

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: SOUTH ENTRY ROAD CROSS SECTIONS 2/3

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED	JB	CHECKED	SW
DRAWN	MT	DATE	??/??

bcs Consulting Engineers Pty. Ltd.
79 AITKEN STREET
GISBORNE 3437
PHONE (03) 5428 3266

BRICSCAD FILE: 1325201

SCALES AS SHOWN

BCS REF: 13252/21

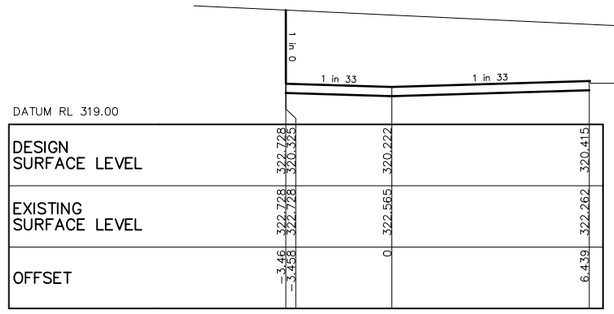
CLIENT REF:

DRAWING NUMBER: C112

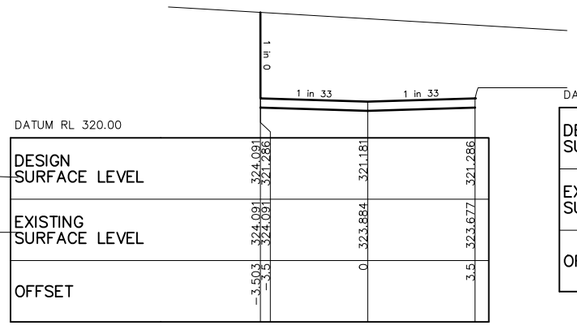
REV: B

CROSS SECTIONS

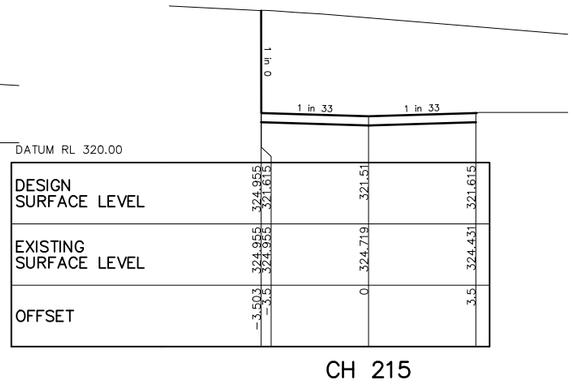
(1:100 H) 0 1 2 3 4 5m
(1:100 V) 0 1 2 3 4 5m



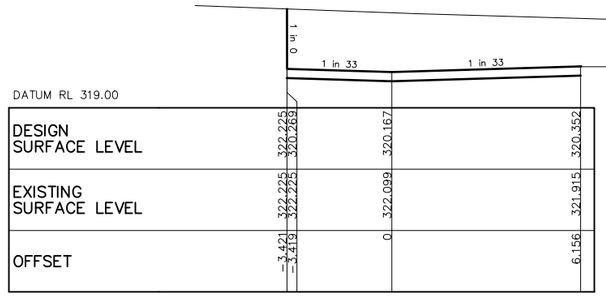
CH 175



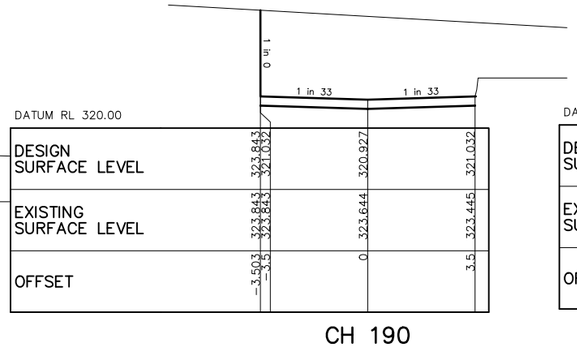
CH 195



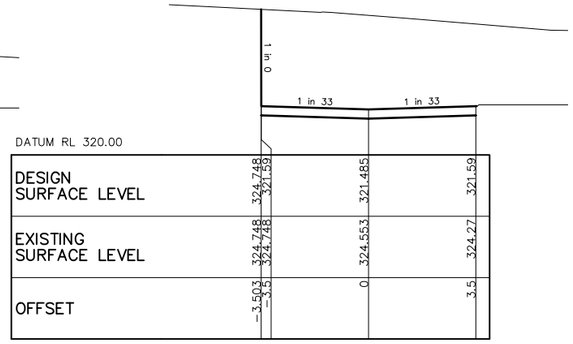
CH 215



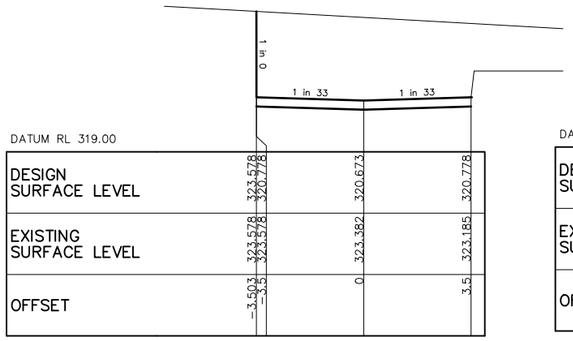
CH 170



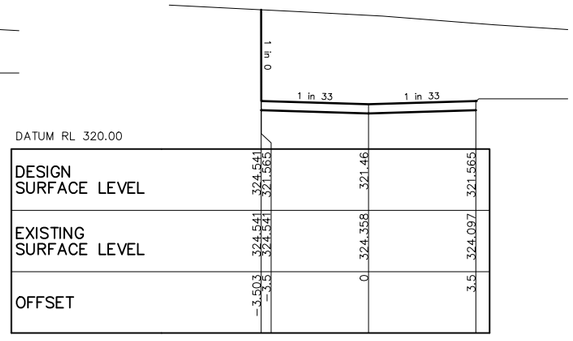
CH 190



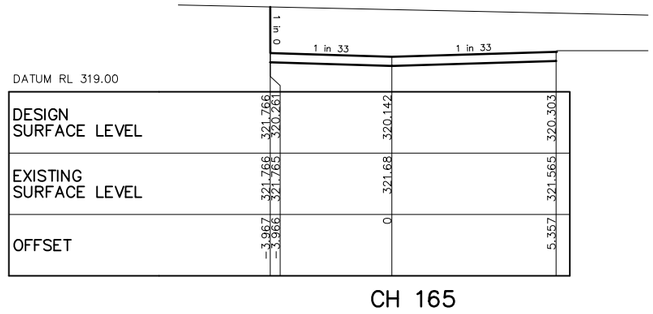
CH 210



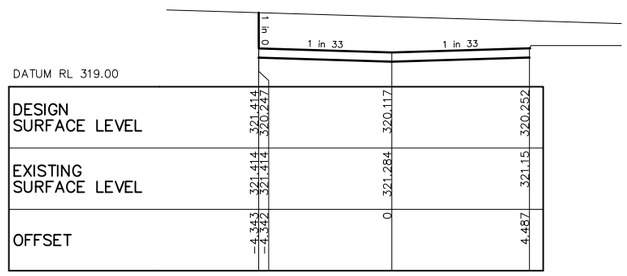
CH 185



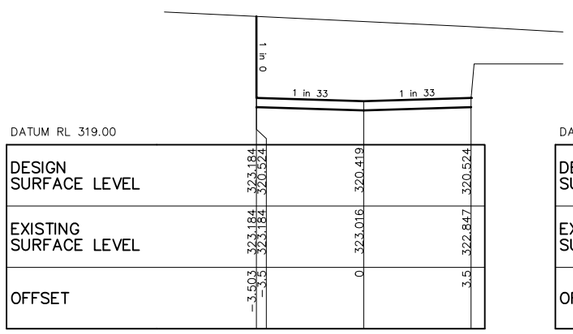
CH 205



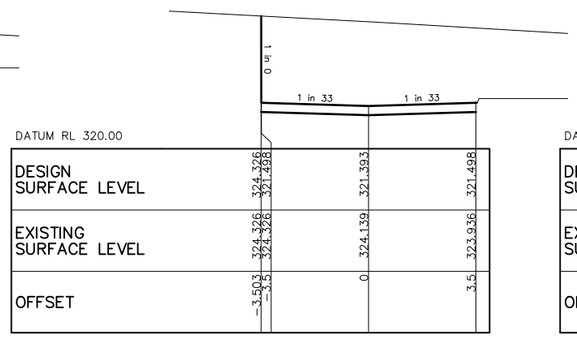
CH 165



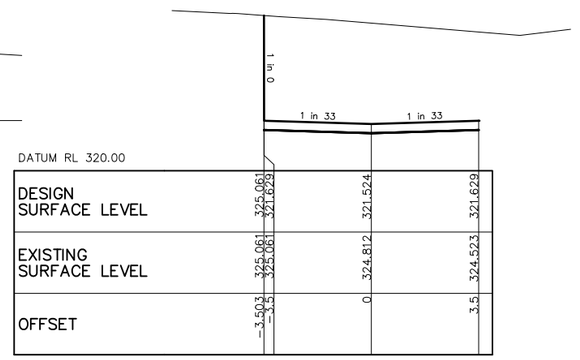
CH 160



CH 180



CH 200



CH 217.814

LEGEND

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: SOUTH ENTRY ROAD CROSS SECTIONS 3/3

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED JB | CHECKED SW

DRAWN MT | DATE ??/??

bcs Consulting Engineers Pty. Ltd.
79 AITKEN STREET
GISBORNE 3437
PHONE (03) 5428 3266

BRICSCAD FILE: 1325201

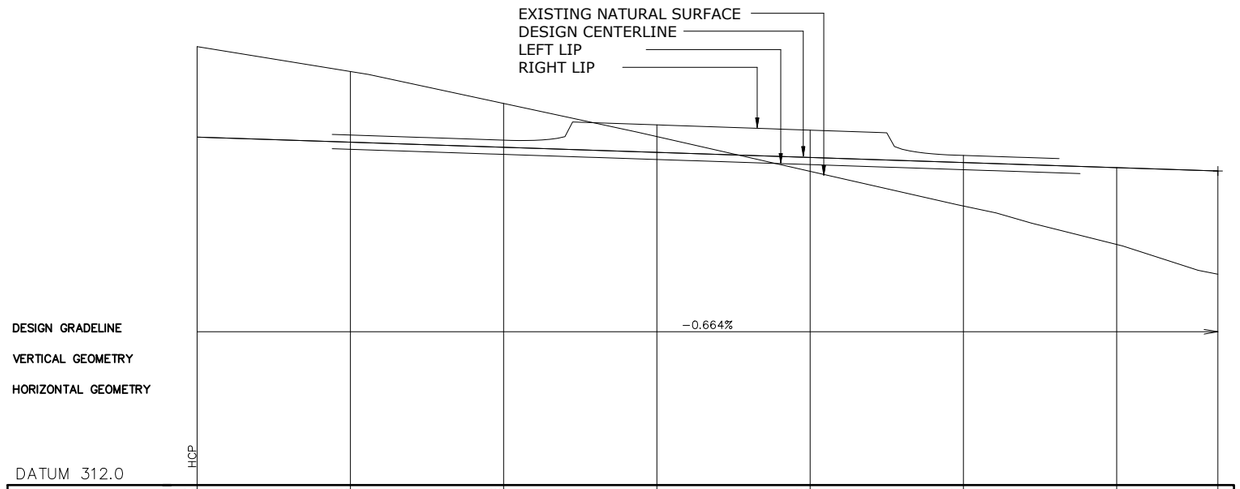
SCALES AS SHOWN

BCS REF: 13252/21

CLIENT REF:

DRAWING NUMBER: C113

REV: B



DATUM 312.0

	HCP							
DESIGN LIP LEVEL	316.539	316.473	316.406	316.34	316.273	316.207	316.14	316.097
RIGHT LIP GRADING		316.566	316.499	316.698	316.629	316.3		
LEFT LIP GRADING		316.38	316.313	316.247	316.18	316.114		
EXISTING NS ON LIP LINE	317.72	317.39	316.98	316.55	316.09	315.64	315.14	314.75
CUT/FILL DEPTH	1.18	0.92	0.57	0.21	−0.18	−0.57	−1	−1.35
NORTHING	5896120.903							5896187.103
EASTING	251598.604							251605.9
CHAINAGE	0	10	20	30	40	50	60	66.6

LINK ROAD 1: LONGITUDINAL SECTION

(1:200 H) 0 2 4 6 8 10m
(1:40 V) 0 0.4 0.8 1.2 1.6 2m

LEGEND

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: LINK ROAD 1: LONGITUDINAL SECTION

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED JB | CHECKED SW

DRAWN MT | DATE ??/??

bcs Consulting Engineers Pty. Ltd.
79 AITKEN STREET
GISBORNE 3437
PHONE (03) 5428 3266

BRICSCAD FILE: 1325201

SCALES AS SHOWN

BCS REF: 13252/21

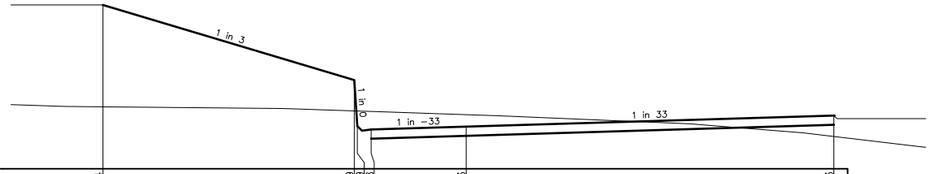
CLIENT REF:

DRAWING NUMBER: C120

REV: B

CROSS SECTIONS

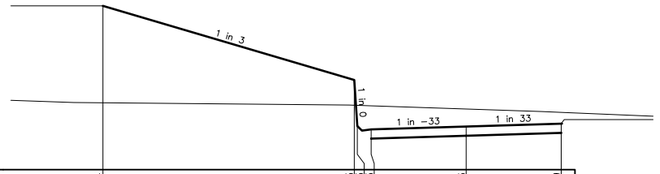
(1:100 H) 0 1 2 3 4 5m
(1:100 V) 0 1 2 3 4 5m



DATUM RL 315.00

DESIGN SURFACE LEVEL	320.34			317.89	317.39	316.28		316.373			316.733
EXISTING SURFACE LEVEL	317.019			316.886	316.882	316.867		316.763			316.051
OFFSET	−11.851			−3.65	−3.55	−3.1		0			11.995

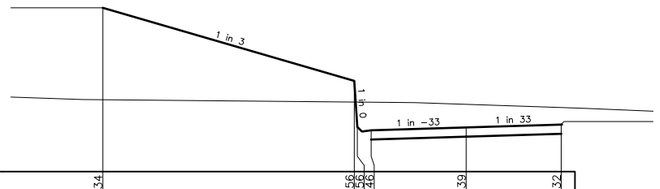
CH 25



DATUM RL 315.00

DESIGN SURFACE LEVEL	320.34			317.923	316.473	316.313		316.406			316.499
EXISTING SURFACE LEVEL	317.181			317.101	317.097	317.082		316.978			316.868
OFFSET	−11.853			−3.65	−3.55	−3.1		0			3.1

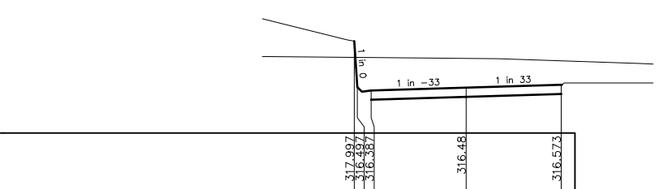
CH 20



DATUM RL 315.00

DESIGN SURFACE LEVEL	320.34			317.956	316.456	316.346		316.439			316.532
EXISTING SURFACE LEVEL	317.343			317.267	317.266	317.261		317.192			317.088
OFFSET	−11.855			−3.65	−3.55	−3.1		0			3.1

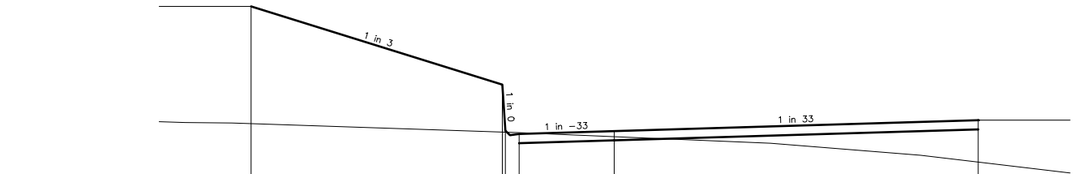
CH 15



DATUM RL 315.00

DESIGN SURFACE LEVEL	320.34			317.997	316.497	316.387		316.48			316.573
EXISTING SURFACE LEVEL	317.467			317.466	317.462	317.462		317.433			317.354
OFFSET	−11.853			−3.65	−3.55	−3.1		0			3.1

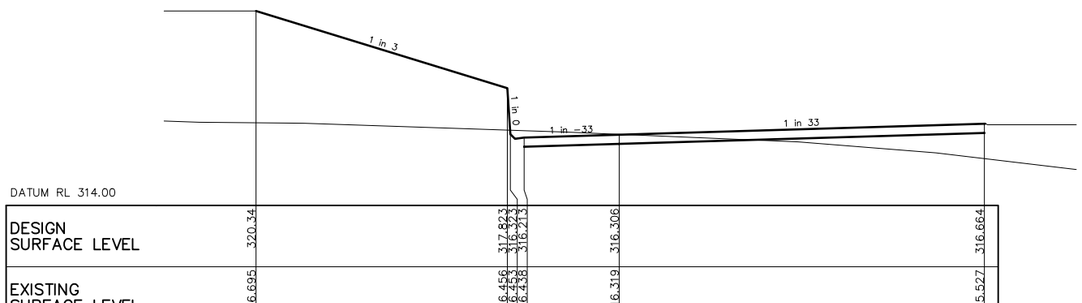
CH 8.817



DATUM RL 314.00

DESIGN SURFACE LEVEL	320.34			317.79	316.29	316.18		316.273			316.629
EXISTING SURFACE LEVEL	316.517			316.242	316.238	316.223		316.092			315.264
OFFSET	−11.845			−3.65	−3.55	−3.1		0			11.872

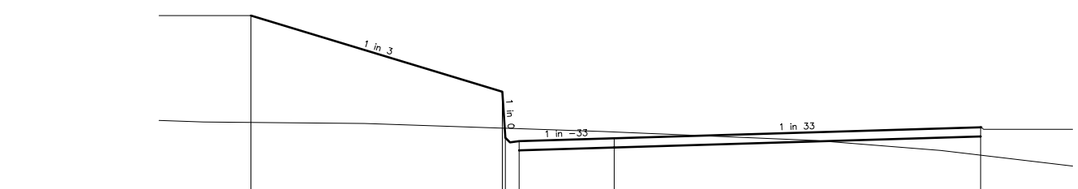
CH 40



DATUM RL 314.00

DESIGN SURFACE LEVEL	320.34			317.823	316.373	316.213		316.306			316.664
EXISTING SURFACE LEVEL	316.695			316.456	316.453	316.438		316.319			315.527
OFFSET	−11.847			−3.65	−3.55	−3.1		0			11.913

CH 35



DATUM RL 314.00

DESIGN SURFACE LEVEL	320.34			317.857	316.357	316.247		316.34			316.698
EXISTING SURFACE LEVEL	316.857			316.671	316.668	316.653		316.545			315.789
OFFSET	−11.849			−3.65	−3.55	−3.1		0			11.954

CH 30

LEGEND

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: LINK ROAD 1 CROSS SECTIONS 1/2

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED JB | CHECKED SW

DRAWN MT | DATE ??/??

bcs Consulting Engineers Pty. Ltd.
79 AITKEN STREET
GISBORNE 3437
PHONE (03) 5428 3266

BRICSCAD FILE: 1325201

SCALES AS SHOWN

BCS REF: 13252/21

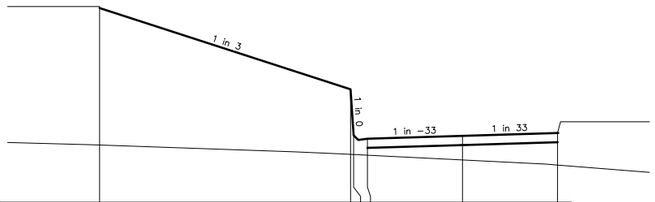
CLIENT REF:

DRAWING NUMBER: C121

REV: B

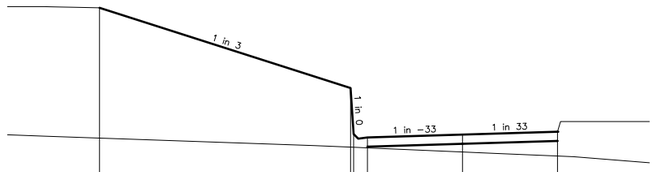
CROSS SECTIONS

(1:100 H) 0 1 2 3 4 5m
(1:100 V) 0 1 2 3 4 5m



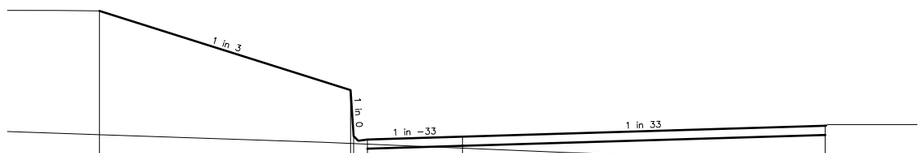
DATUM RL 314.00					
DESIGN SURFACE LEVEL	320.34	317.681	317.681	316.174	316.267
EXISTING SURFACE LEVEL	315.875	315.571	315.548	315.388	315.222
OFFSET	-11.839	-3.65	-3.31	0	3.1

CH 55



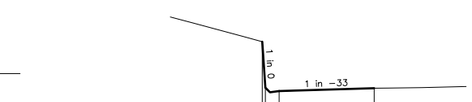
DATUM RL 314.00					
DESIGN SURFACE LEVEL	320.34	317.724	316.114	316.207	316.3
EXISTING SURFACE LEVEL	316.093	315.798	315.774	315.64	315.508
OFFSET	-11.841	-3.65	-3.31	0	3.1

CH 50



DATUM RL 314.00					
DESIGN SURFACE LEVEL	320.34	317.757	316.147	316.24	316.595
EXISTING SURFACE LEVEL	316.302	316.019	315.996	315.865	315.002
OFFSET	-11.843	-3.65	-3.31	0	11.832

CH 45



DATUM RL 314.00			
DESIGN SURFACE LEVEL	317.673	316.063	316.156
EXISTING SURFACE LEVEL	315.438	315.412	315.258
OFFSET	-3.65	-3.1	0

CH 57.612

LEGEND

REV	AMENDMENT	DATE	CHK	APP
B	NORTH/SOUTH ROAD NAMES	25/11/21	SW	JB
A	FIRST ISSUE	19/11/21	SW	JB

PROJECT: PROPOSED WASTE TO ENERGY SITE

DETAILS: LINK ROAD 1 CROSS SECTIONS 2/2

MUNICIPALITY: MOUNT ALEXANDER SHIRE COUNCIL

PRINCIPAL: MT ALEXANDER BIOENERGY PTY LTD

DATUM (A.H.D.)

DESIGNED JB | CHECKED SW

DRAWN MT | DATE ??/??

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BRICSCAD FILE: 1325201

SCALES AS SHOWN

BCS REF: 13252/21

CLIENT REF:

DRAWING NUMBER: C122

REV: B