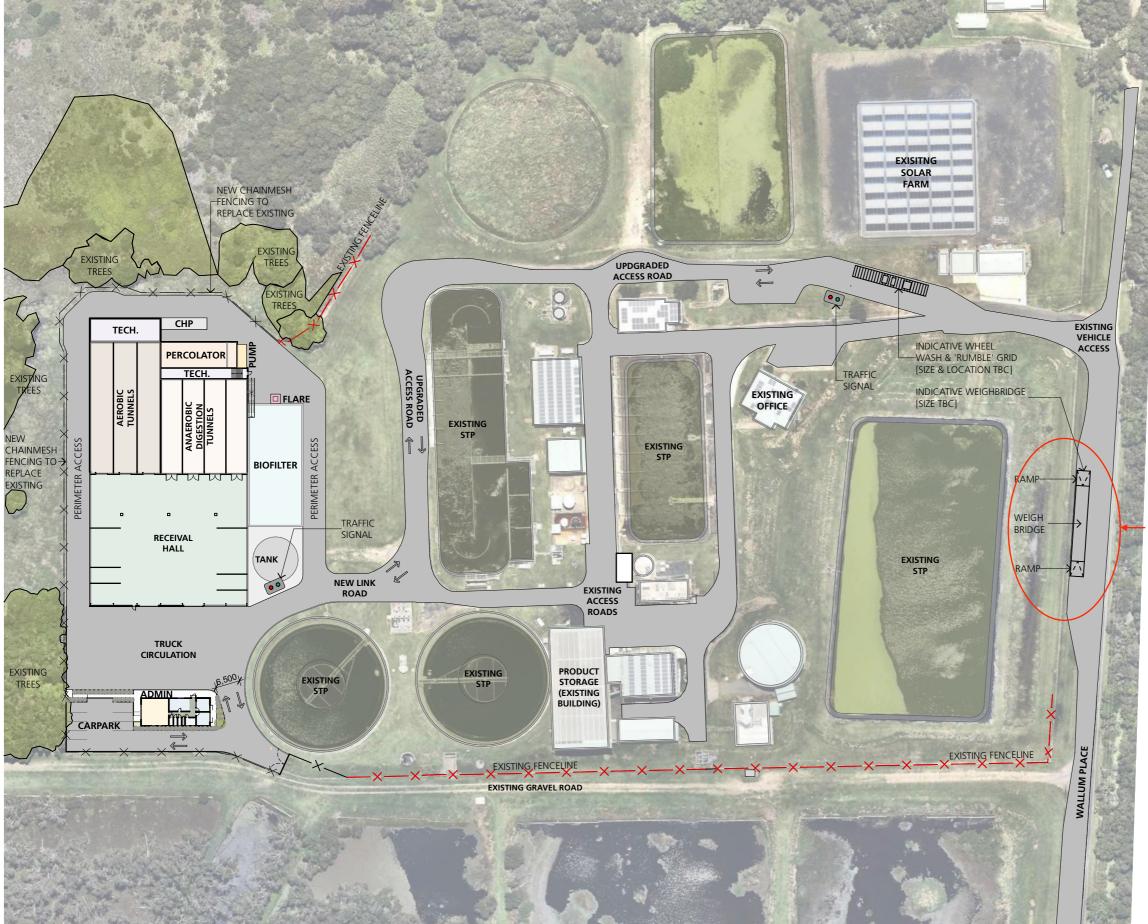




Dimensions are in millimetres unless otherwise sho
 Work to given dimensions. Do not scale from drawing

Check all dimensions on site prior to construction and fabrication.

 Rring any discrepancies to the attention of the proprietor & archite



Weighbridge to be relocated to within the Council operational land. Refer to consent conditions.

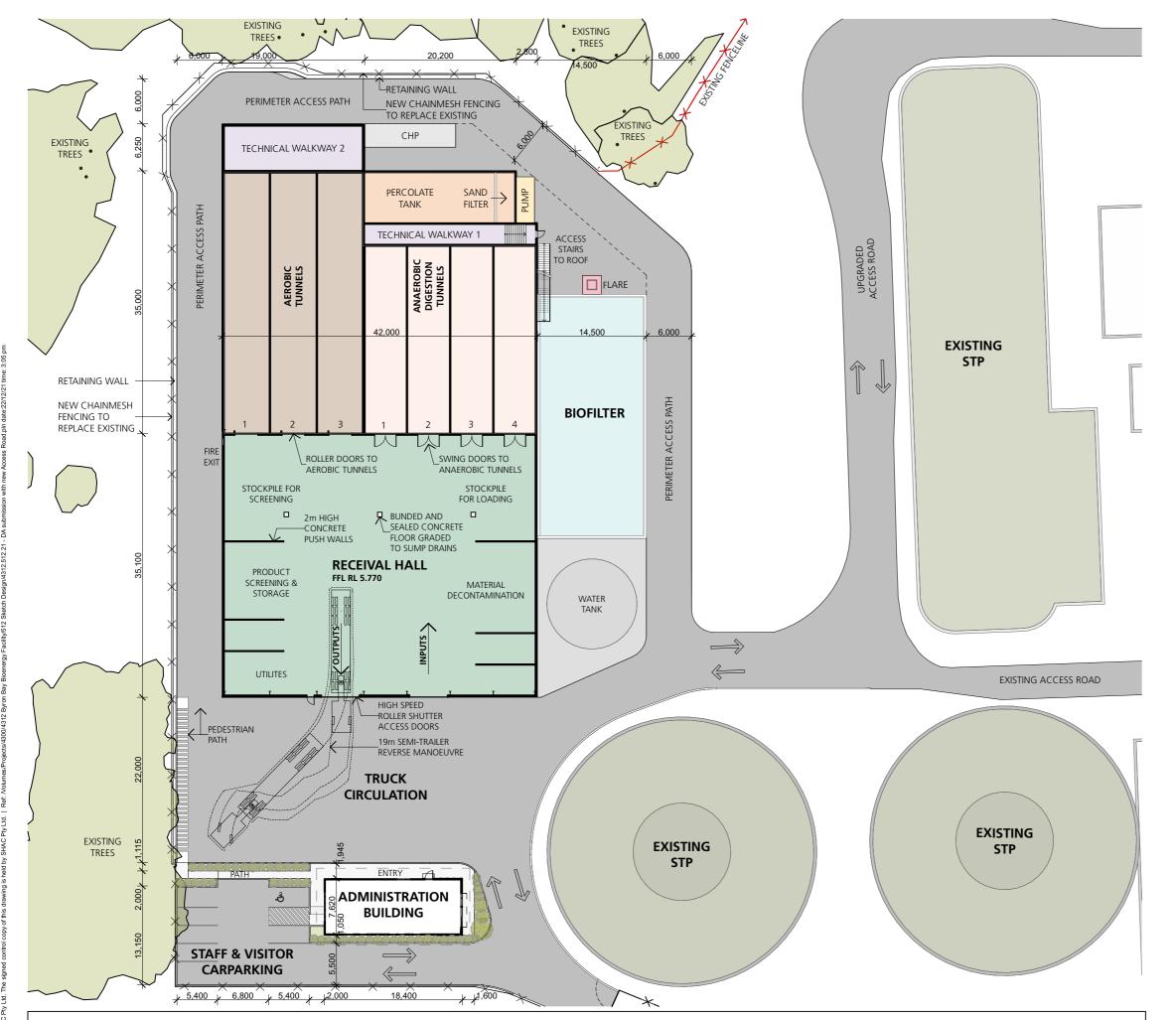
4312 SK1100

RevS 22/12/21

Proposed Site Plan w. Aerial View overlay











Dimensions are in millimetres unless otherwise shown.
 Work to given dimensions. Do not scale from drawing.
 Work to given dimensions. Do not scale from drawing.
 Bring any discrepancies to the attention of the proprietor & architect

AREA SCHEDULE						
ZONE	ARE	A (m²)				
Buildings						
Receival Hall	1450					
Tunnels (incl. tech. walkways)	1383	(1212 + 171)				
Percolate Tank	131					
Administration	130					
CHP	38					
Biofilter	440					
	Total: 3572					
Hardstand						
Truck circulation + access road in	2956					
Carpark [incl. access & circulation]	236					
	Total: 3192					
Other						
Perimeter access	1381					
	Total: 1381					



Proposed Site Plan





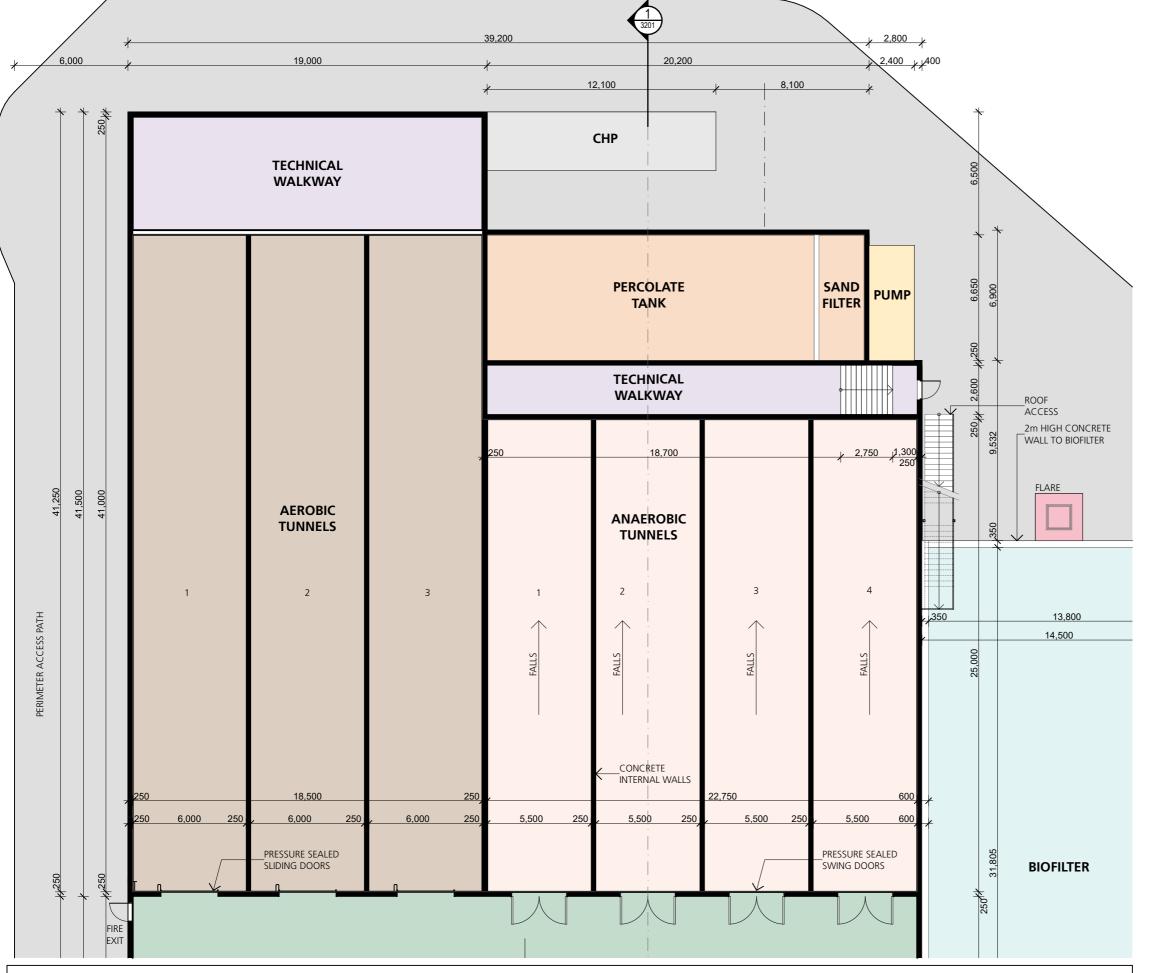






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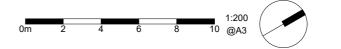
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 Bring any discrepancies to the attention of the proprietor &



4312 SK2202

RevA 30/4/21

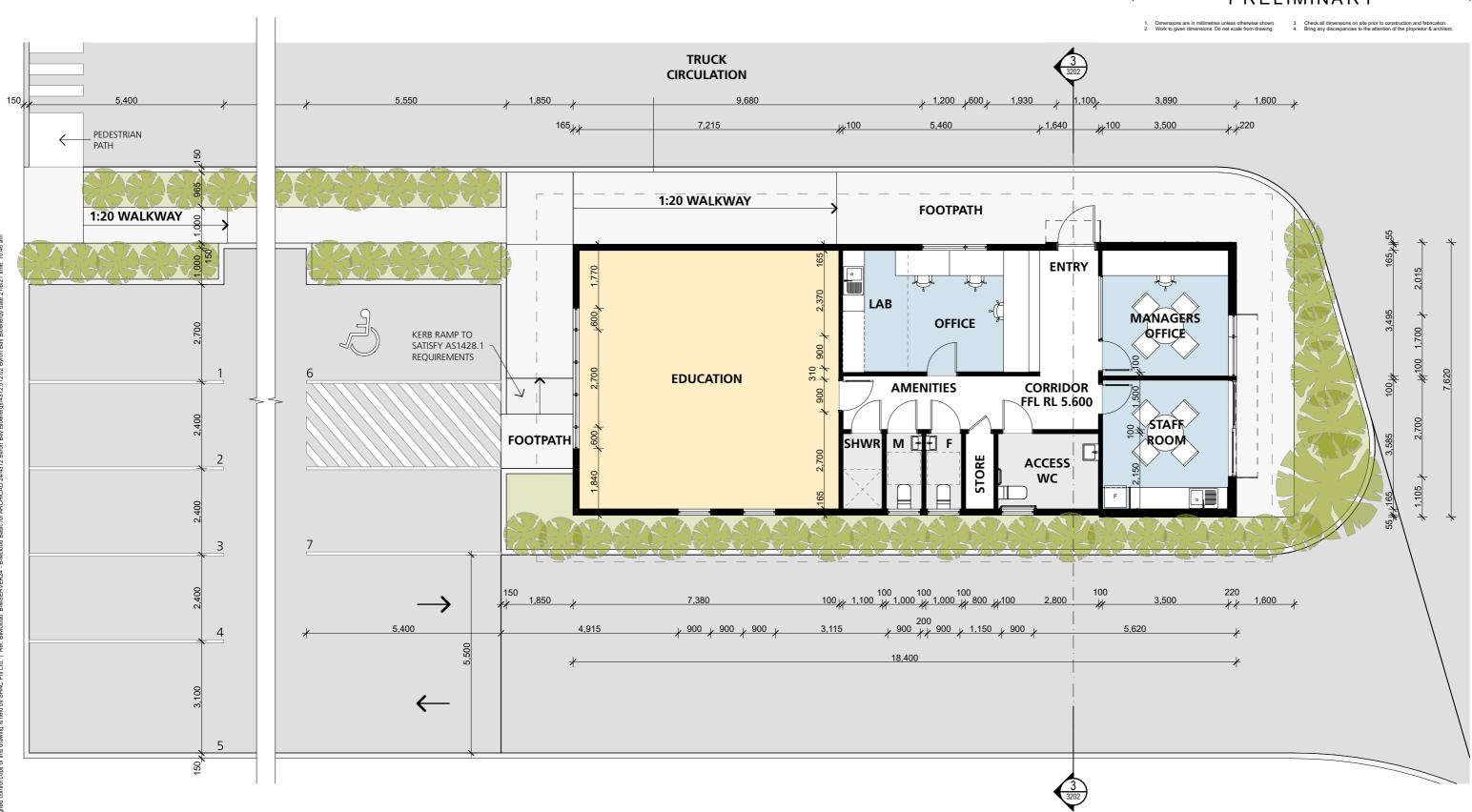
Floor Plan - Composting Tunnels











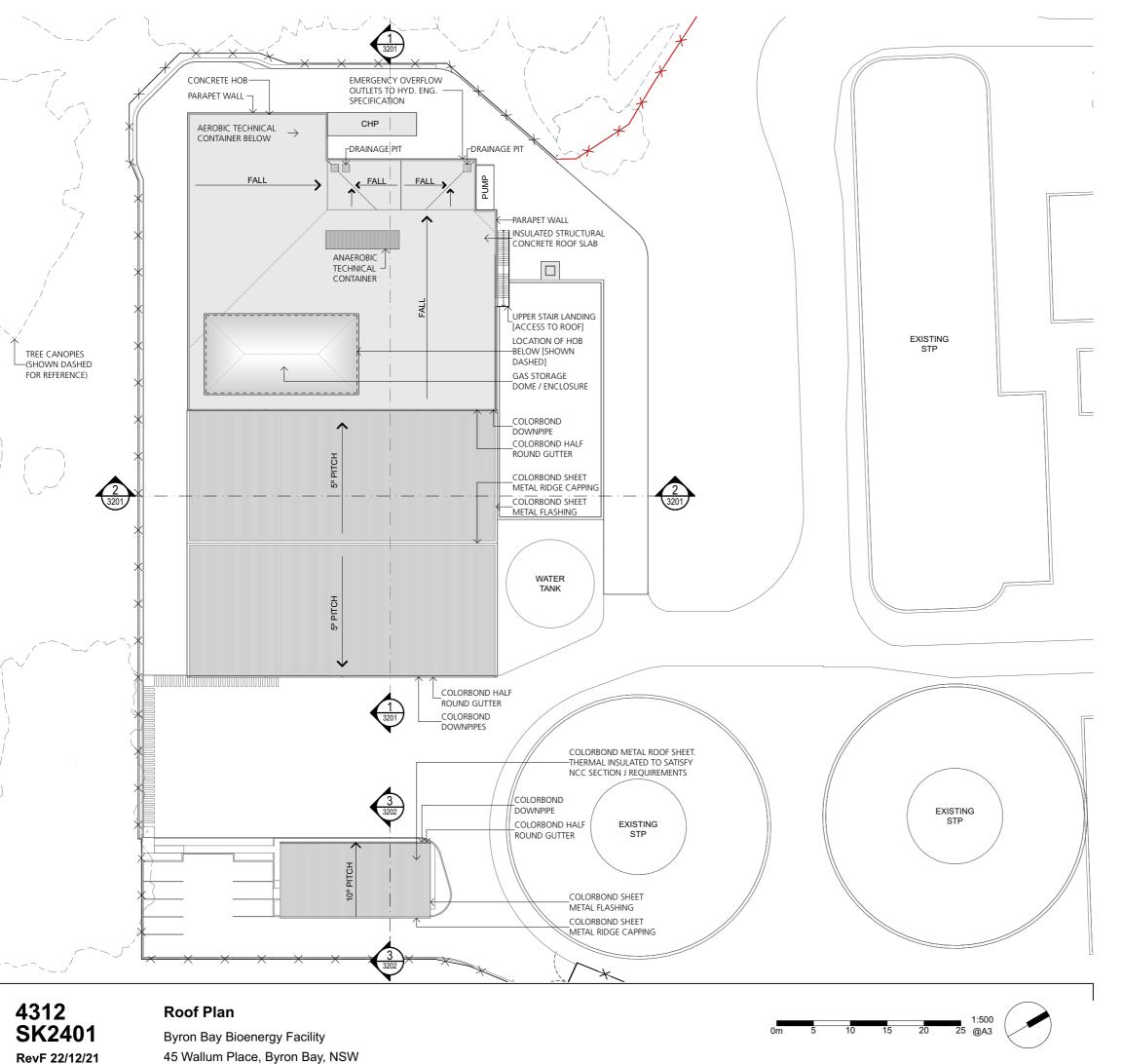
4312 SK2210

RevA 30/4/21

Floor Plan - Administration Building







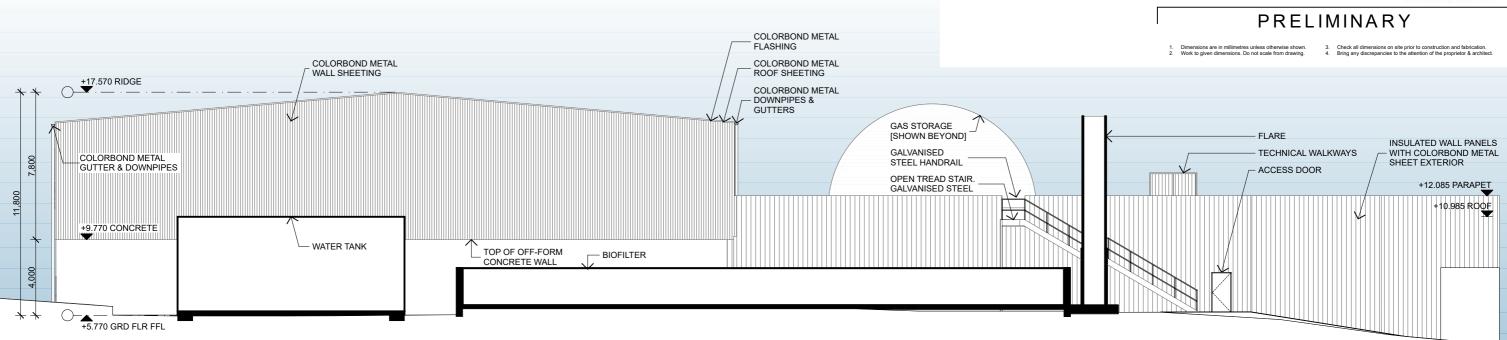












NORTH ELEVATION SCALE: 1:200

COLORBOND METAL
OUTERBONS A DOWNPIPES
COLORBOND METAL
DOME SHOWN BEYOND)
FLARE
COLORBOND METAL
DOWNPIPES & GUTTERS

COLORBOND METAL
DOWNPIPES & GUTTERS

TECHNICAL WALKWAY
INSULATED WALL SANKELS
WITH COLORBOND METAL
WALL CADDING

112,085 PARAPET
SHEET EXTERIOR

TOP OF OFF-FORM
CONCRETE WALL

15,770 GRD FLR FFL

15,770 GRD FLR FFL

15,770 GRD FLR FFL

SCALE: 1:200

4312 SK3101

RevA 30/4/21

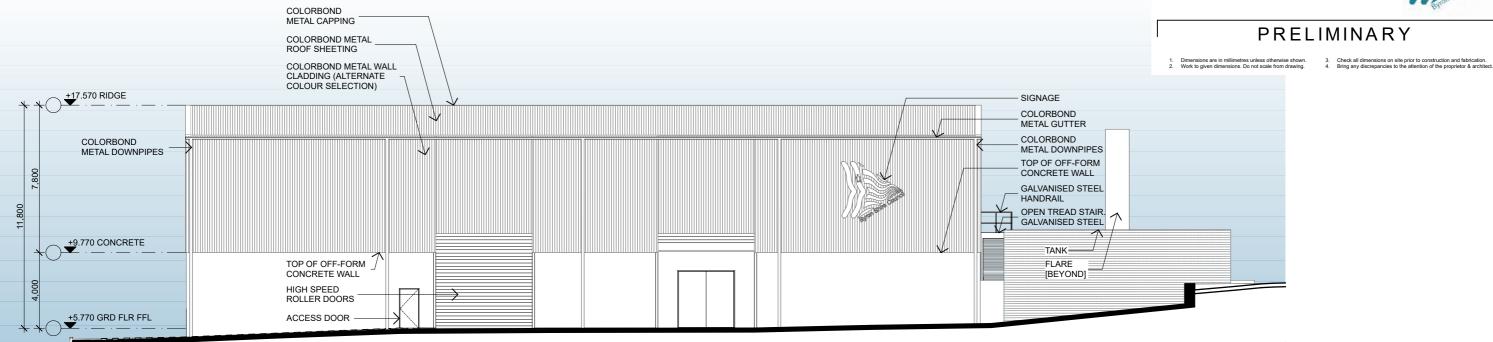
North & South Elevations - Main Building





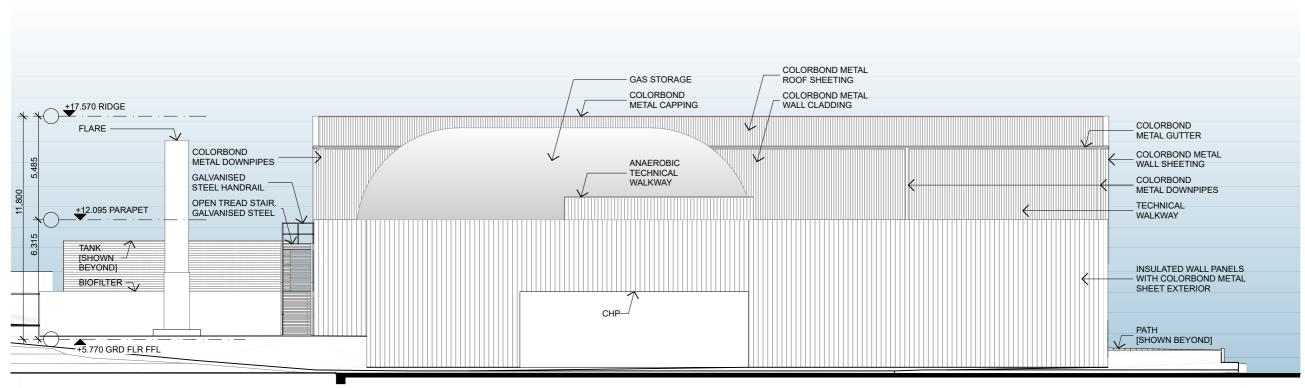






EAST ELEVATION

SCALE: 1:200



WEST ELEVATION SCALE: 1:200

4312 SK3102

RevA 30/4/21

East & West Elevations - Main Building

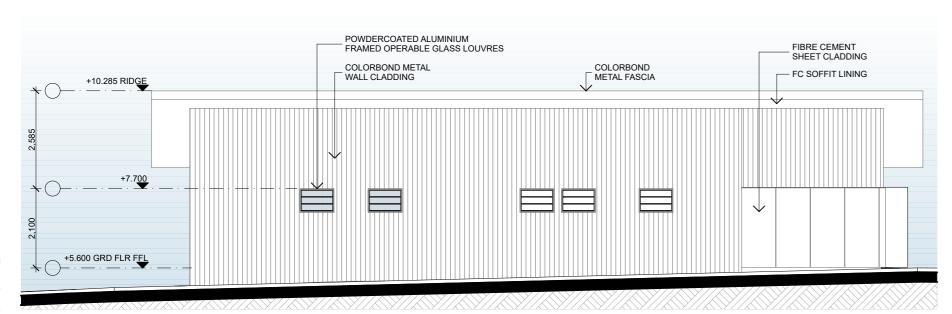








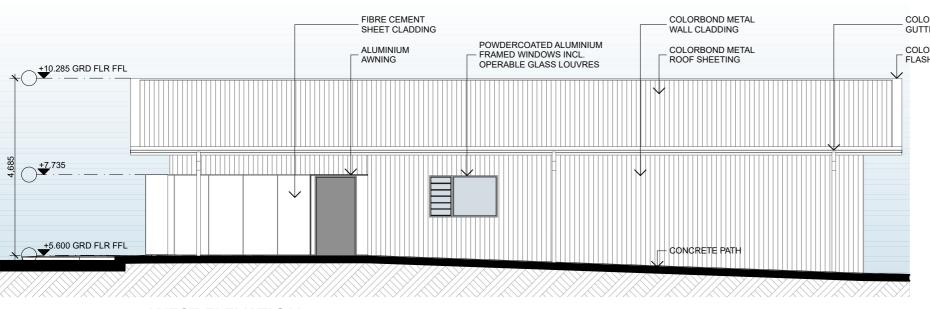
- Dimensions are in millimetres unless otherwise shown.
 Work to given dimensions. Do not scale from drawing.
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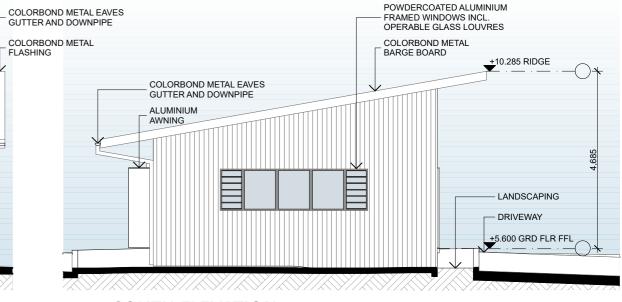


ALUMINIUM AWNING POWDERCOATED ALUMINIUM FRAMED WINDOWS AND SLIDING DOOR FIRE CLADDING POWNPIPE FEATURE AWNING FEATURE AWNING FEATURE AWNING FEATURE AWNING CONCRETE PATH +5.600 GRD FLR FEL

SCALE: 1:100

NORTH ELEVATION
SCALE: 1:100





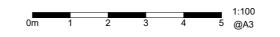
WEST ELEVATION
SCALE: 1:100

SOUTH ELEVATION
SCALE: 1:100

4312 SK3110

RevA 30/4/21

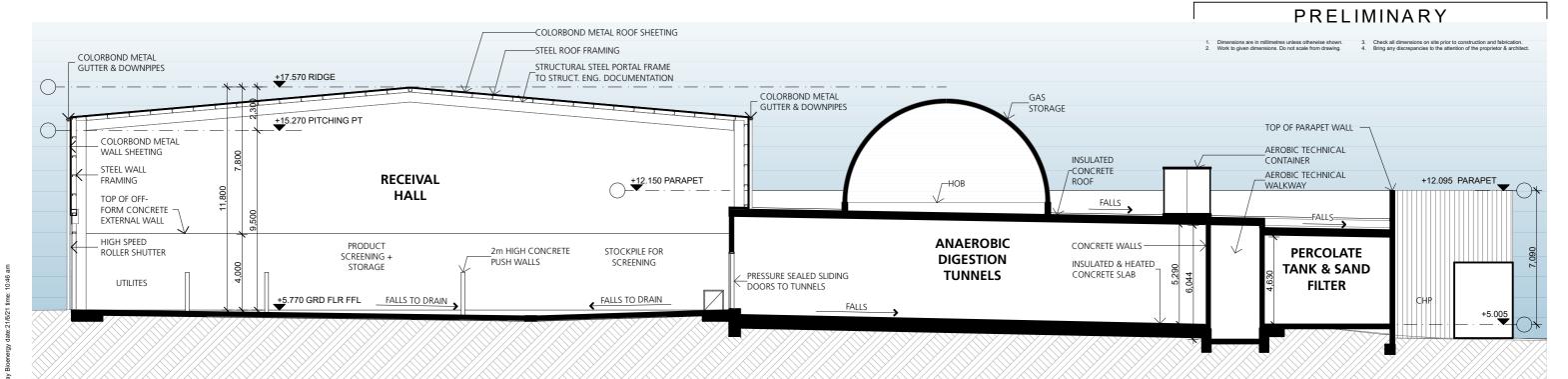
Elevations - Administration Building



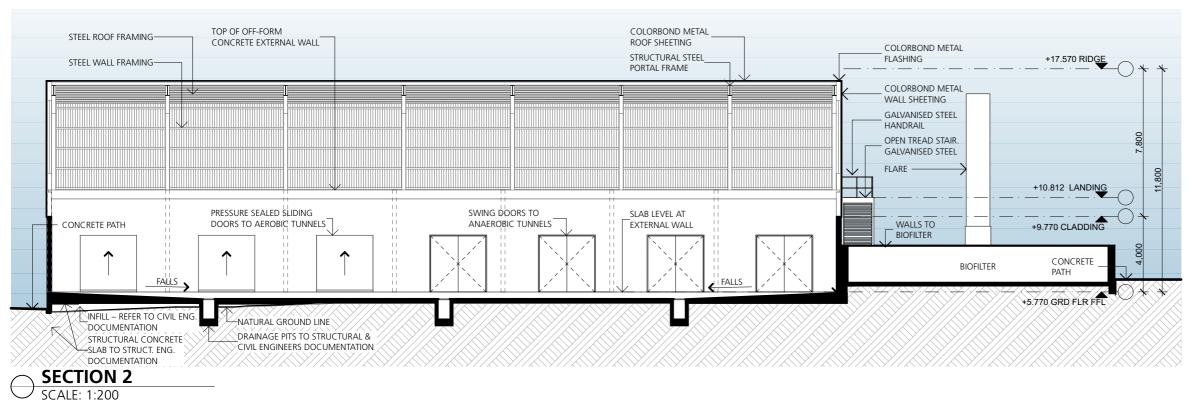








SECTION 1
SCALE: 1:200



4312 SK3201 RevA 30/4/21

Sections 1 & 2

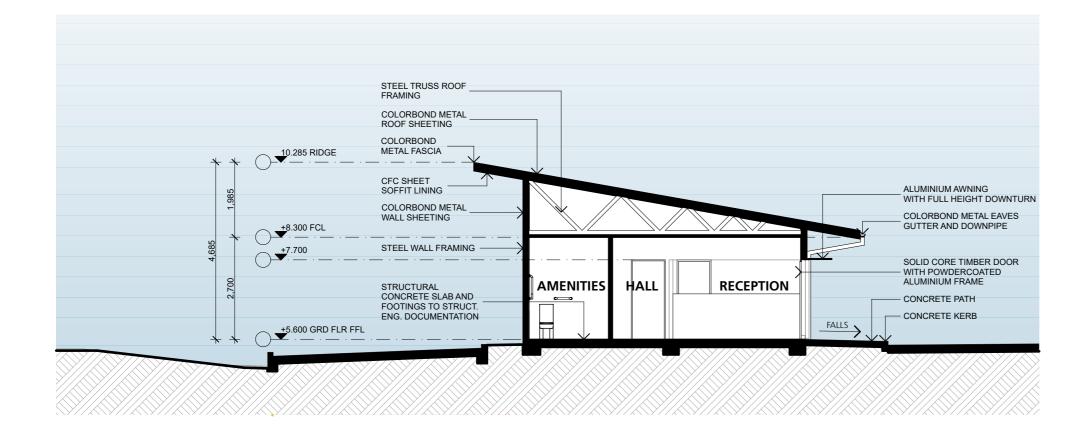






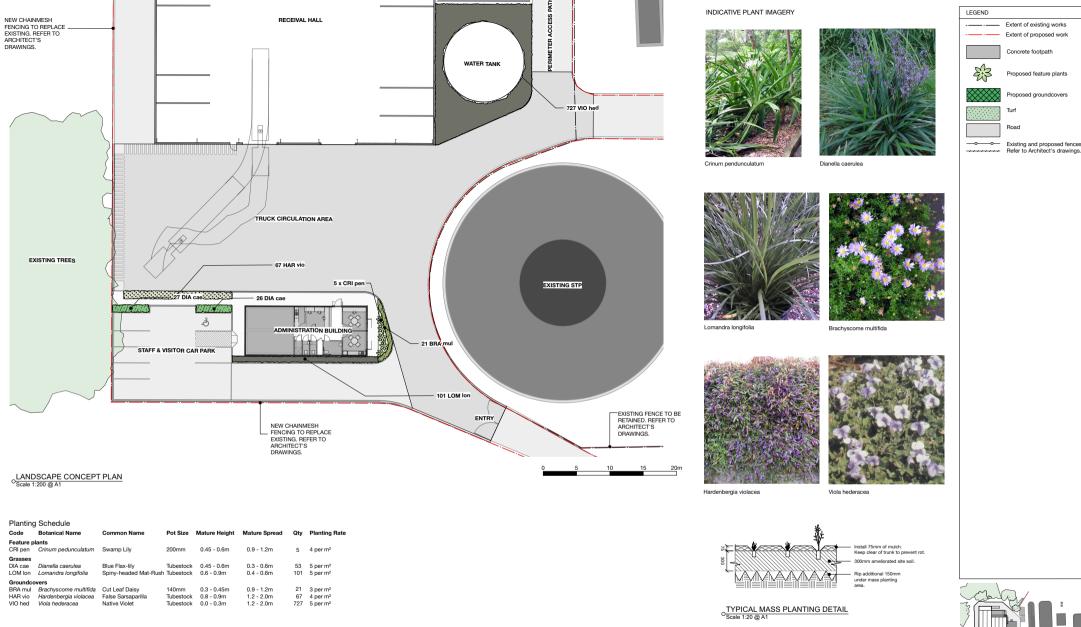


Dimensions are in millimetres unless otherwise shown.
 Work to given dimensions. Do not scale from drawing.
 Work to given dimensions. Do not scale from drawing.
 Security of the proprietor & architect.

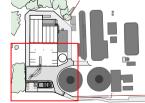








- 1. This plan is compliant with the Byron Shire Council DCP 2014's requirements. All plant species have been chosen from the DCP's recommended list of plant species and the plan is compliant with landscape requirements for industrial areas.
- 2. This plan is compliant with the NSW RFS Standards for Asset Protection Zones (RFS, 2005). All landscape areas located within the vicinity of the building are in Asset Protection Zone, and therefore, the chosen plant species are low-growing and are fire retardant (Ozbreed, n.d.).



Extent of existing works

Concrete footpath

Extent of proposed work

Proposed feature plants Proposed groundcovers

Existing and proposed fences.

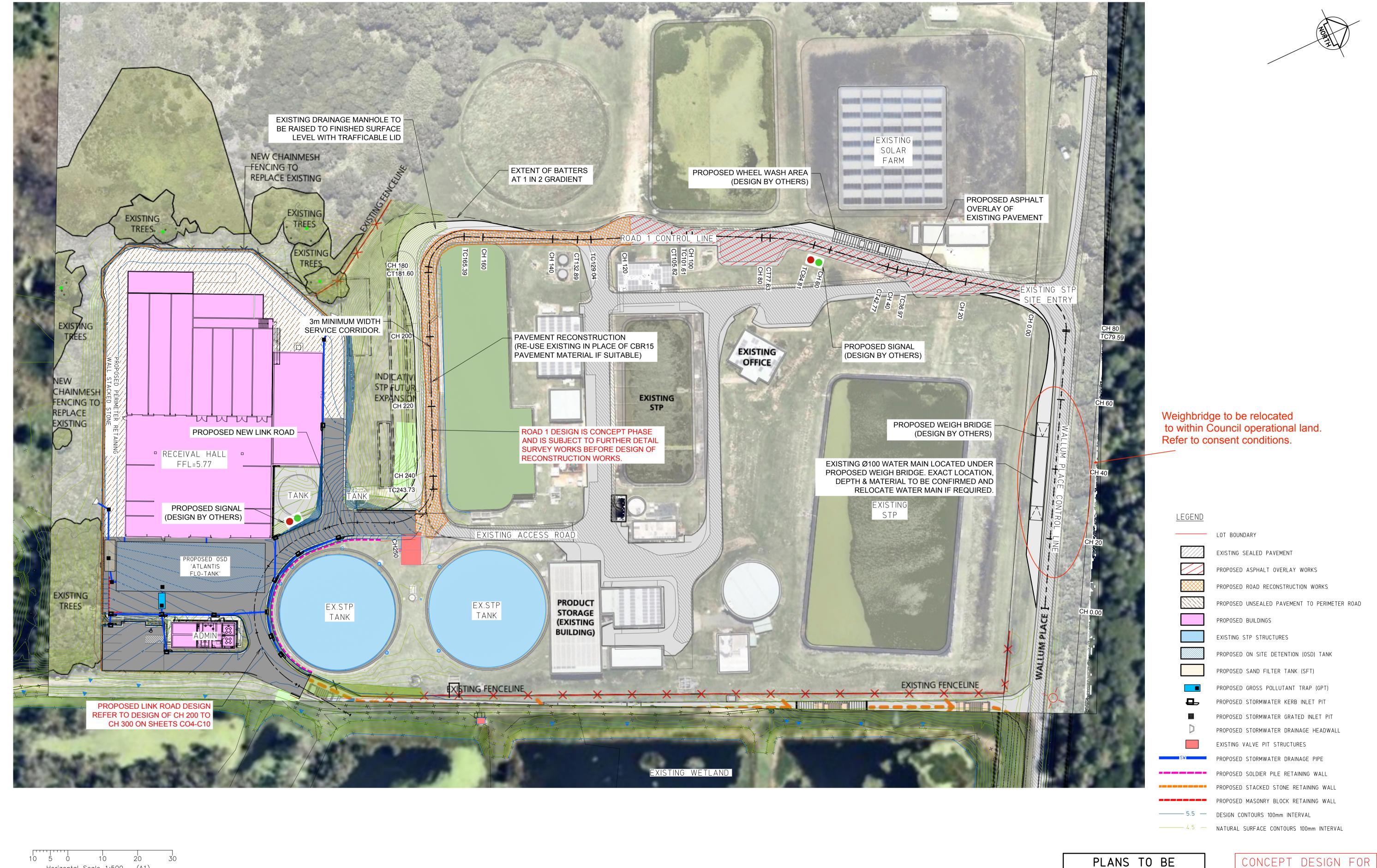
KEY PLAN (NTS)

LANDSCAPE CONCEPT PLAN

SCALE: 1:200 DRIGINAL DRAWING AT A1

Checked By: AR Approved By: DM LP01

1983



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28.04.2021

20.04.2021

DATE

DATE OF RELEASE

RESPONSIBLE PRINCIPAL SIGNATURE

Horizontal Scale 1:500 (A1)

REASON FOR ISSUE

ISSUED FOR REVIEW AT 50%

ISSUED FOR REVIEW AT 30%

1:1000 (A3)

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GENERAL ARRANGEMENT PLAN

BYRON SHIRE COUNCIL

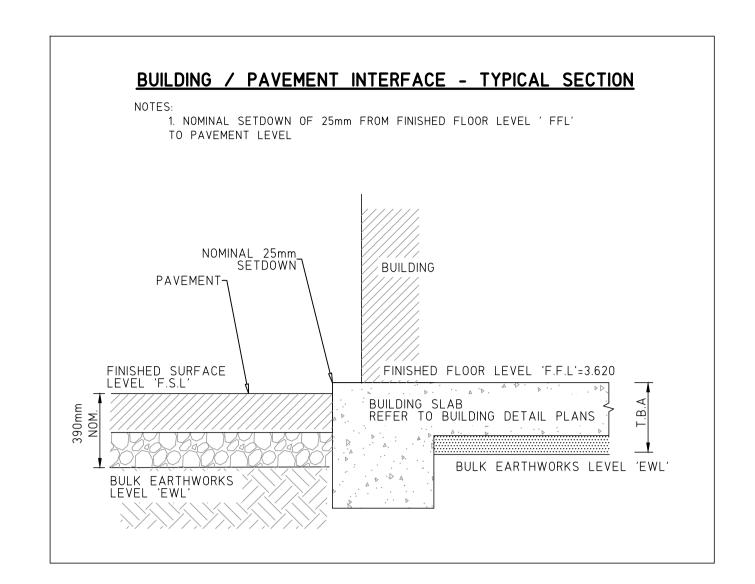
BYRON BAY BIO-ENERGY FACILITY 45 WALLUM PLACE BYRON BAY NSW

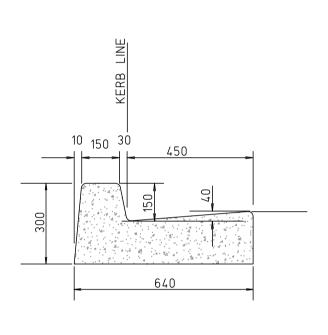
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DO NOT SCALE DRAWING					
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T.R.	B.C.	15	A1		
SCALES	JOB No	DRAWING No	ISSUE		
AS SHOWN	190178	C02	7		

PRINTED IN COLOUR

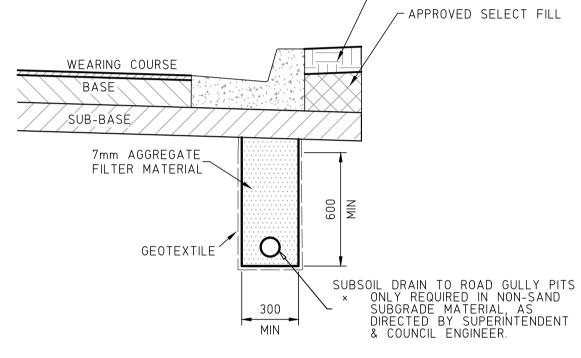
PRELIMINARY PAVEMENT SECTION - FLEXIBLE PAVEMENT FLEXIBLE PAVEMENT DESIGN TRAFFIC LOAD 1x106 ESA (T.B.C.) 7mm Emulsion primer sealer 150mm BASE COURSE DGB20 - CRUSHED ROCK MIN. SOAKED CBR 80% 390mm TOTAL COMPACTED TO 98% MODIFIED PAVEMENT DEPTH EXCL. SELECT 200mm SUBBASE DGS20 - CRUSHED ROCK MIN. SOAKED CBR 45% COMPACTED TO 98% MODIFIED 300mm SELECT (CBR>15%) SUBGRADE REPLACEMENT REQUIRED IF SUBGRADE CBR < 5% SUBGRADE - COMPACTED TO 100% STANDARD (AS1289.5.1.1) PAVEMENT DESIGN PAVEMENT DETAILS/NOTES: PAVEMENT DESIGN IS PRELIMINARY AND IS SUBJECT TO SITE SUBGRADE CBR TESTING BY NATA ACCREDITED GEOTECHNICAL ENGINEER AND FINAL PAVEMENT DESIGN APPROVAL BY BYRON SHIRE COUNCIL 2. (FOR BASE & SUBBASE MATERIAL COMPLIANCE REFER TO NORTHERN RIVERS CONSTRUCTION SPECIFICATION C242 FLEXIBLE PAVEMENTS)





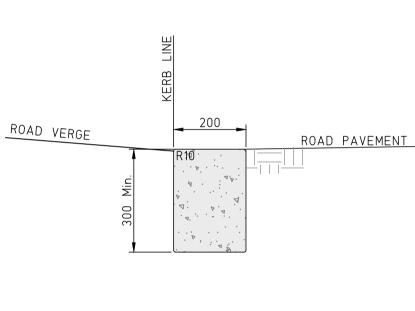
KERB & GUTTER TYPE B1 (K&G)

NOTE: REFER TO NRDG SD R-03 FOR DETAILS

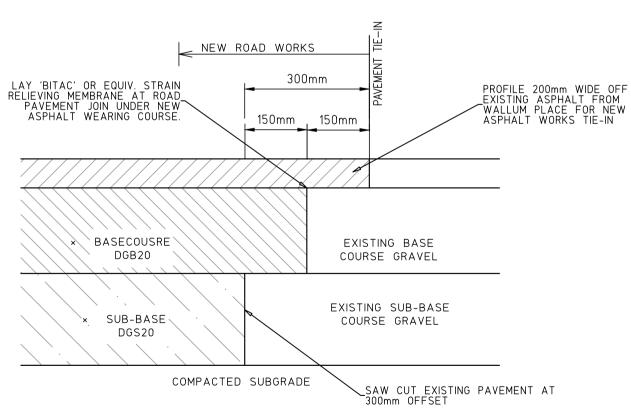


-100mm TOPSOIL & TURF

KERB DETAIL - SUBSOIL DRAINAGE NOTE: REFER TO NCC SD A1100 FOR DETAILS



FLUSH EDGE RESTRAINT TYPE ER2 NOTE: REFER TO NRDG SD R-03 FOR DETAILS



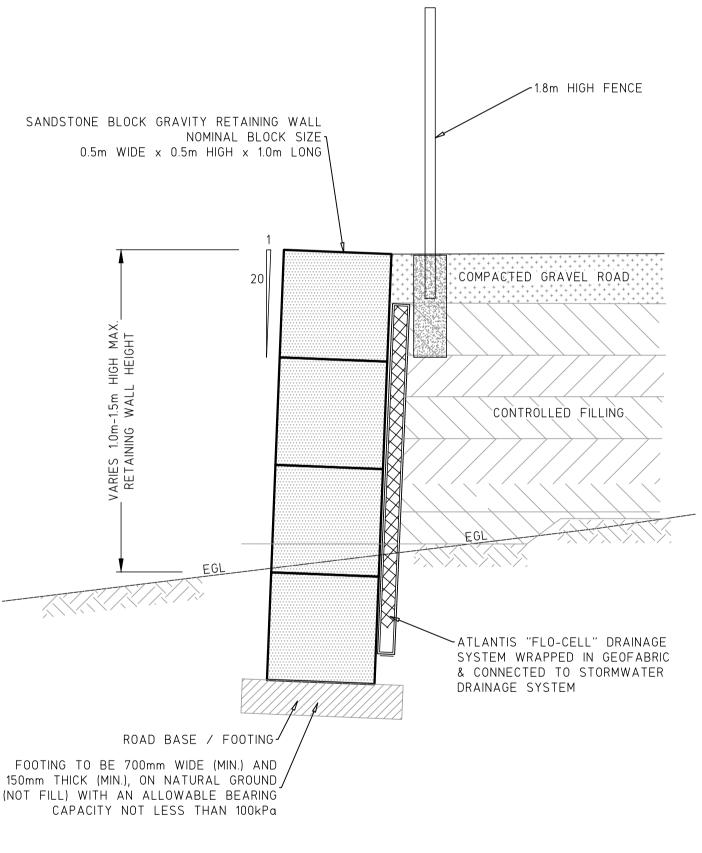
× WALLUM PLACE EXISTING PAVEMENT DEPTHS TO BE VERIFIED BY CONTRACTOR AND FINAL PAVEMENT DESIGN SUBMITTED TO BYRON SHIRE COUNCIL FOR APPROVAL BEFORE CONSTRUCTION COMMENCEMENT

WALLUM PLACE TIE-IN - PAVEMENT DETAIL

GENERAL CIVIL NOTES:

- GC1 All works shall be carried out in accordance with the approved plans, subject to Byron Shire Council's Standard Drawings and the Northern Rivers Local Government Design & Construction Specifications and Standards.
- GC2 All erosion and sedimentation control measures are to be carried out in accordance with Council's Code of Practice for Erosion and Sedimentation and must be implemented prior to the commencement of any building of civil works. The developer is responsible for ongoing maintenance of erosion and siltation control
- GC3 All public utilities are to be clearly identified in the field prior to any civil works. Council accepts no responsibility for damage or relocation costs to utilities during
- GC4 Council is to be notified prior to the commencement of any works.
- GC5 It is the contractor's responsibility to ensure that all works are carried in accordance with the Occupational Health and Safety Act.
- GC6 Permission to enter, construct works and discharge storm water onto adjoining properties is to be obtained and submitted to Council prior to commencement of any
- GC7 Pavement to be designed and certified by a practicing consultant geotechnical engineer and submitted to Council for approval prior to commencement of any works.
- GC8 All rectification work arising from insufficient information being shown on the
- submitted plans is to be carried out to the engineer's satisfaction. GC9 All disturbed areas to be shaped and turfed.
- GC10 The plans to be read conjunction with engineering plan approval correspondence.

THE LOCATION OF UNDERGROUND SERVICES SHOWN ARE INDICATIVE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL AUTHORITIES TO DETERMINE THE LOCATION OF UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORK. ANY CLASH OF WORKS WITH A SERVICE IS TO BE REPORTED TO THE ENGINEER IMMEDIATELY THE CONTRACTOR SHALL ENSURE THAT ALL SERVICES ARE FULLY PROTECTED DURING CONSTRUCTION, ANY SERVICES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.



PERIMETER RETAINING WALL - CUT SANDSTONE BLOCKS N.T.S

NOTE: EXCAVATIONS FOR FOOTING SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER AT THE TIME OF BULK EXCAVATION TO CONFIRM THE NOMINATED SOIL BEARING CAPACITIES HAVE BEEN ACHIEVED.

CONSTRUCTION NOTES

- G1 These drawings shall be read in conjunction with all Architectural & other consultants drawings & specifications and with such other written instructions as may be issued during the course of the contract. (Any discrepancy shall be referred to the Superintendent/Engineer before proceeding with the work. In case of discrepancy, precedence is given to drawings, then notes, then specification.)
- G2 Materials and workmanship shall be in accordance with the relevant and current SAA codes, Local Government requirements or other relevant Building Authority.
- G3 All dimensions shown shall be verified by the builder on site. Engineers drawings shall not be scaled. G4 During all stages of construction, the structure shall be maintained in a stable condition with all temporary bracing and support of the structure being the responsibility of the contractor. The determination by the contractor of a safe work method remains the responsibility of the contractor as the documents, drawings and any written instructions, provided by MPC Consulting Engineers during the contract do not describe a work method. The design and installation of any temporary works remains the responsibility of the contractor. Any elements determined by the contractor of posing an unacceptable level of safety risk to construct shall be referred to MPC Consulting Engineers. The Occupational Health and Safety Act and Workcover Codes of Practice shall be complied with.
- G5 U.N.O. denotes "Unless Noted Otherwise". All dimensions shown are in millimeters U.N.O. G6 Construction works using these drawings must not commence until the drawings have been signed and 'Issued For Construction'. MPC Consulting Engineers accept no responsibility for any
- work not inspected or not approved by MPC Consulting Engineers during construction. G7 It is the responsibility of the head contractor or site supervisors to ensure that all works noted on site or written instructions are carried out. Any queries or clarifications must be directed to MPC Consulting Engineers.
- G8 Provide scaffolding, fall restraint, hand and mid rails and toe boards for work at height. Erect access stairs at earliest opportunity to reduce open shaft hazards and facilitate access maintain
- safety mesh and barriers to all openings and elevated edges. G9 Submit details of changes to scope, work methods or materials etc for approval before proceeding. Approval does not authorise a variation to the contract.
- G10 Check structural drawings against mechanical, electrical services and other drawings for requirements for penetrations, conduits, ducts, pipes, etc.
- G11 Nomination of proprietary items does not indicate exclusive preference but indicates required properties of item. Similar alternatives having required properties may be offered for approval. Approval does not authorise a variation to the contract. Install proprietary items in accordance with manufacturers requirements and recommendations.
- G12 Give two working days' (48 hours) notice so that inspection may be made of critical stages of work.
- G13 All inspections undertaken by superintendent or others do not relieve contractor of responsibility for compliance with drawings and specifications.
- G14 Survey and setting out to be undertaken by a Registered Surveyor.
- G15 Verify on site setting out dimensions and existing member sizes shown on drawings before shop drawings, construction and fabrication is commenced. Existing structures shown on drawings are in approximate locations only.
- G16 Take care of hazards associated with buried, concealed or overhead services. Undertake exploration to establish location of and protect existing services at site services shown on drawings are in approximate locations only, services other than those shown may exist on site. Mark locations of services clearly on site and on as—built drawings. Hand excavate within one metre of in—ground
- G17 These drawings do not detail temporary works. Construction methods and temporary works are responsibility of the contractor.
- G18 Implement soil and water management procedures to avoid erosion. Contamination and sedimentation of site, surrounding areas and drainage systems.
- G19 Make good any damage to existing elements at completion of works.

EARTHWORKS NOTES:

- E1 The contractor shall review the Geotechnical Engineering Report. Remove all topsoil, organic matter rubble, uncontrolled fill, unsuitable material at the direction of the Geotechnical Engineer. All materials stockpiles and all earthwork areas shall have sediment and erosion control measures installed in accordance with the "Blue Book" (Managing, Urban Stormwater Soils and Construction, produced by Landcom). Any surplus excavated topsoil shall be removed from site and disposed of in accordance with EPA quidelines.
- E2 Proof roll all exposed natural sub-grade for building platforms, paved areas, areas to be filled, or cut batters in the presence of a suitably Qualified Geotechnical Engineer who will certify the works.
- E3 Allow for excavation in all materials as found U.N.O. Any surplus excavated material shall be removed from site and disposed of in accordance with EPA quidelines.
- E4 Ensure that there is continuity of compaction between building platforms in both cut and fill areas.
- E5 Testing of the sub-grade shall be carried out by an approved N.A.T.A. registered laboratory and in accordance with AS3798. Where the fill is to provide support to building floor slab, level 1 testing procedures (in accordance with AS3798) shall be followed, otherwise level 2 testing shall be undertaken.
- E6 The contractor shall allow in their price for all costs associated with geotechnical testing during construction works.
- E7 U.N.O. Provide suitable compaction equipment to achieve specified standards. Refer to geotechnical engineering report for site sub-grade preparation guidelines. All fill materials shall be placed in maximum 200mm thick layers and compacted at optimum moisture content (+/-2%) to achieve the following standards:

* Service trenches (not under pavements) 95% standard * Service trenches under pavements 100% standard * Top 600mm to subgrade level under paved areas 100% standard * Landscaped and general areas 95% standard Pavement: * Base Layer 98% modified * Sub-Base Layer 98% modified

Testing of placed fill shall be at the direction of the geotechnical engineer and suitable for the works to be certified as completed.

E8 Provide to the superintendent all necessary test certificates and certifications for all earthworks and pavement preparations.

E9 Ensure that all earthworks areas are free draining and do not pond water. Provide temporary drainage or sump pumping as required until sufficient site stormwater drainage has been installed.

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1	ISSUED FOR REVIEW AT 50%	28.04.2021				or
0	ISSUED FOR REVIEW AT 30%	20.04.2021				of
ISSUE	REASON FOR ISSUE	DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE	ISSUE	an

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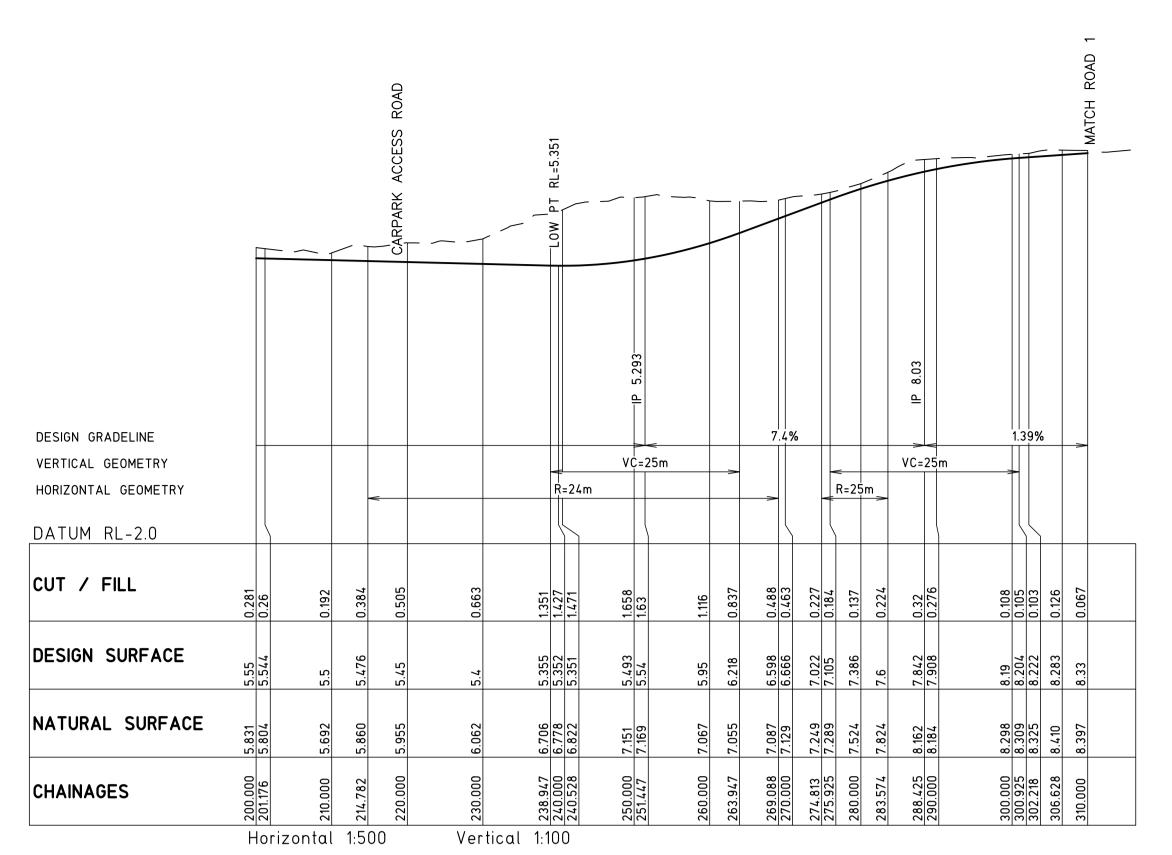
BYRON SHIRE COUNCIL

TYPICAL SECTIONS & DETAILS

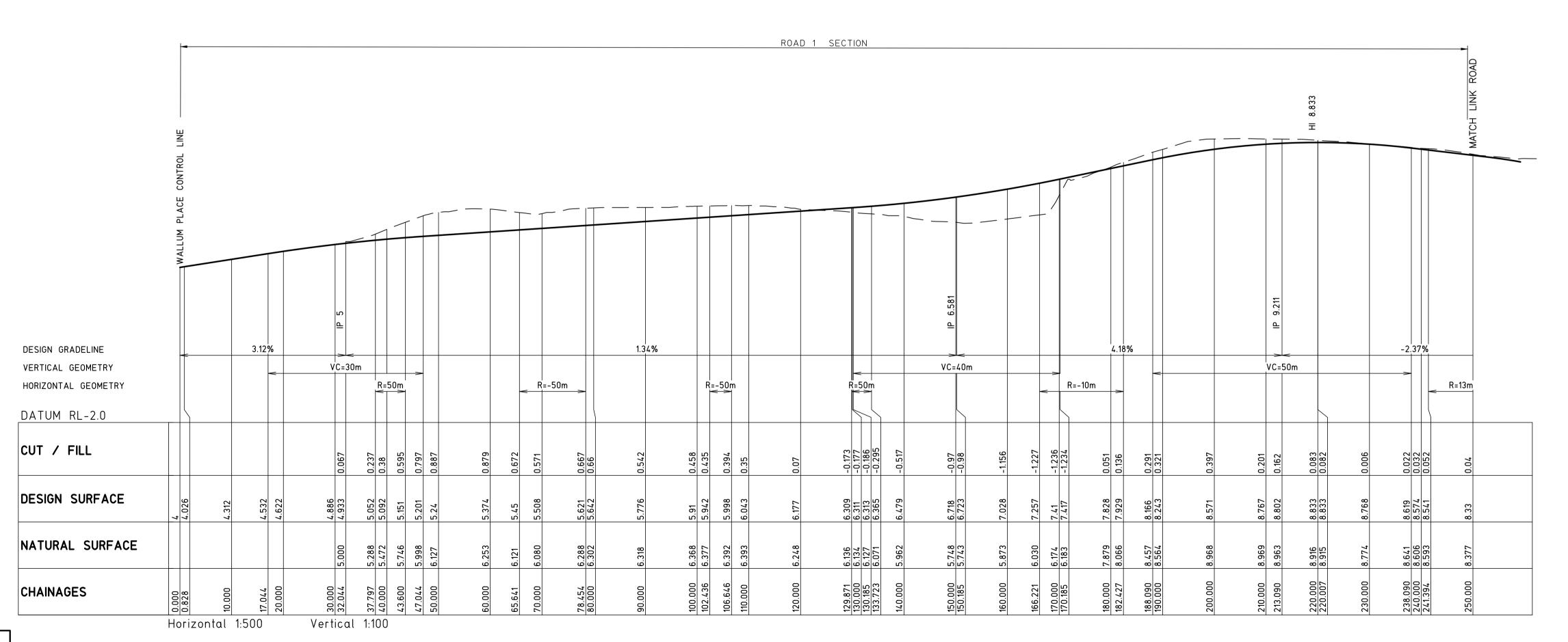
BYRON BAY BIO-ENERGY FACILITY 45 WALLUM PLACE BYRON BAY NSW

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FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm



LINK ROAD CENTRELINE

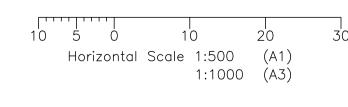


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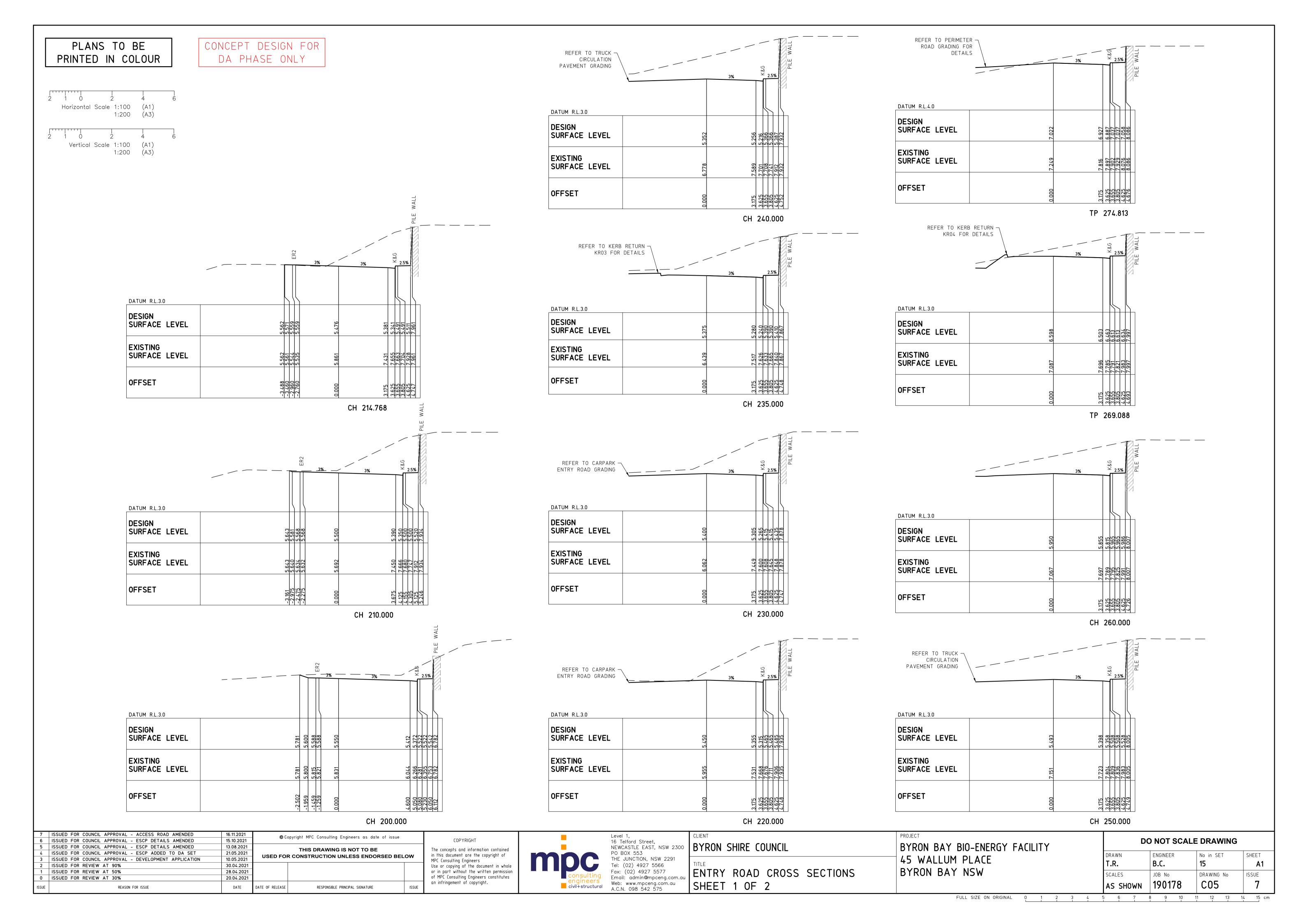
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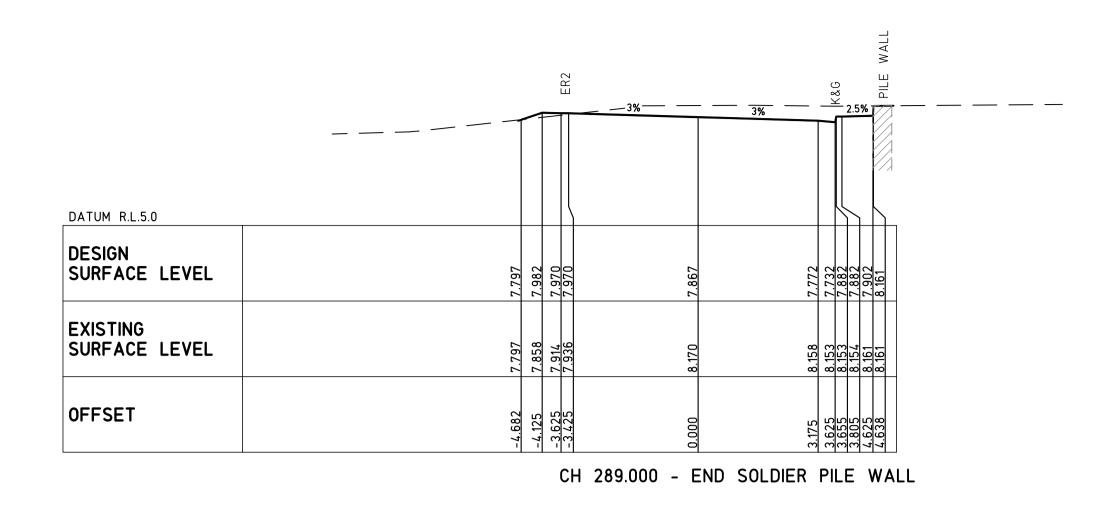
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7 ISSUED FOR COUNCIL APPROVAL - ACCESS ROAD AMENDED 6 ISSUED FOR COUNCIL APPROVAL - ESCP DETAILS AMENDED 5 ISSUED FOR COUNCIL APPROVAL - ESCP DETAILS AMENDED	16.11.2021 15.10.2021 13.08.2021	© Copyright MPC Consulting Engineers as date of issue THIS DRAWING IS NOT TO BE	COPYRIGHT The concepts and information contained		Level 1, 16 Telford Street, NEWCASTLE EAST, NSW 2300	BYRON SHIRE COUNCIL	BYRON BAY BIO-ENERGY FACILITY	D(O NOT SCALE	E DRAWING	
4 ISSUED FOR COUNCIL APPROVAL - ESCP ADDED TO DA SET 3 ISSUED FOR COUNCIL APPROVAL - DEVELOPMENT APPLICATION 2 ISSUED FOR REVIEW AT 90%	21.05.2021 10.05.2021 30.04.2021	USED FOR CONSTRUCTION UNLESS ENDORSED BELOW	in this document are the copyright of MPC Consulting Engineers Use or copying of the document in whole	mpc	PO BOX 553 THE JUNCTION, NSW 2291 Tel: (02) 4927 5566	TITLE	45 WALLUM PLACE	T.R.	ENGINEER B.C.	No in SET 15	SHEET A1
1 ISSUED FOR REVIEW AT 50% 0 ISSUED FOR REVIEW AT 30% REASON FOR ISSUE	28.04.2021 20.04.2021 DATE	DATE OF RELEASE RESPONSIBLE PRINCIPAL SIGNATURE ISSUE	or in part without the written permission of MPC Consulting Engineers constitutes an infringement of copyright.	consulting engineers civil+structura	Fax: (02) 4927 5577 Email: admin@mpceng.com.au Web: www.mpceng.com.au A.C.N. 098 542 575	ENTRY ROAD 1 & LINK ROAD LONGITUDINAL SECTIONS	BYRON BAY NSW	SCALES AS SHOWN	JOB No 190178	CO4	ISSUE 7
·	·					•	FULL SIZE ON ORIGINAL 0 1 2 3 4	5 6 7	8 9 10	11 12 13 1/	4 15 cm

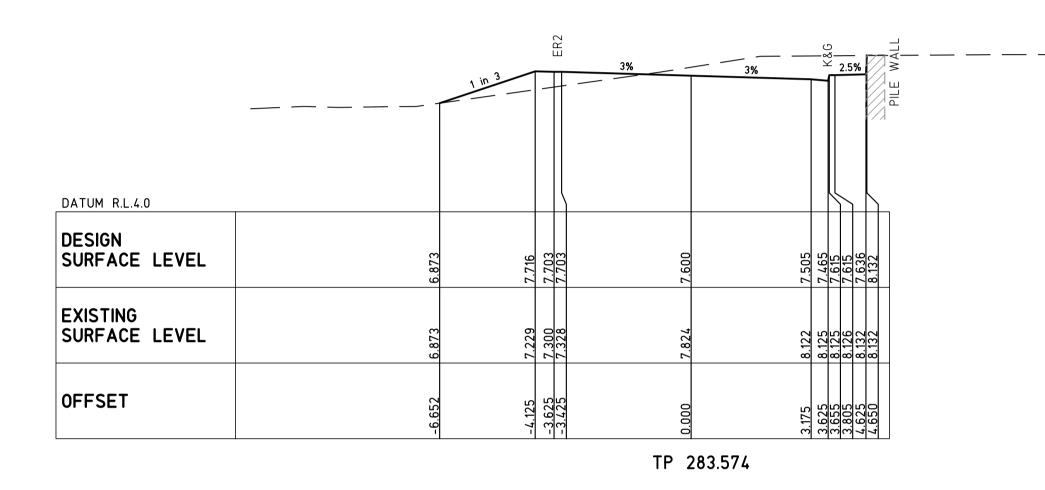
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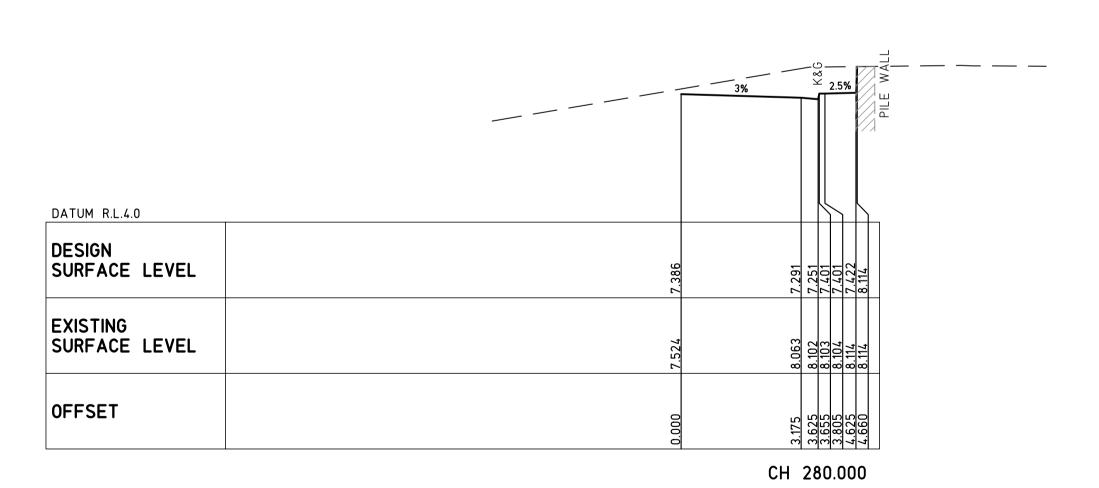


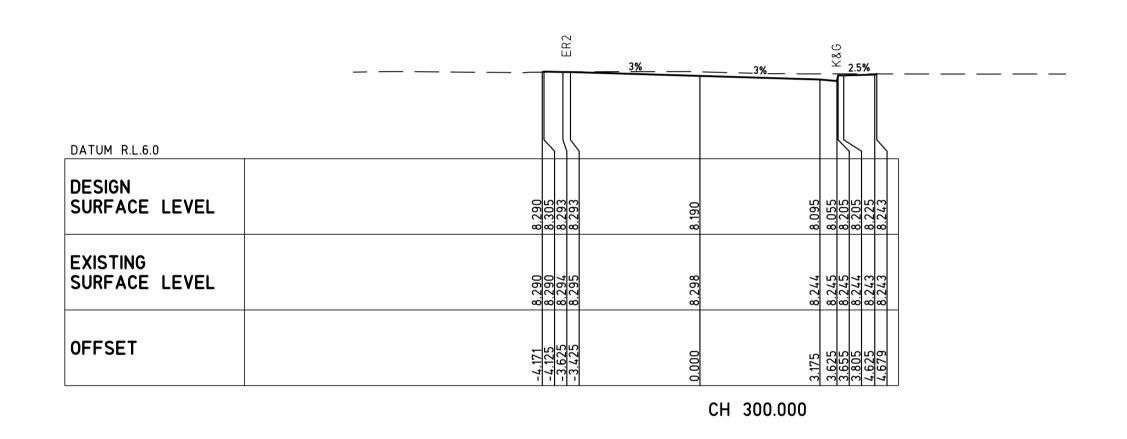
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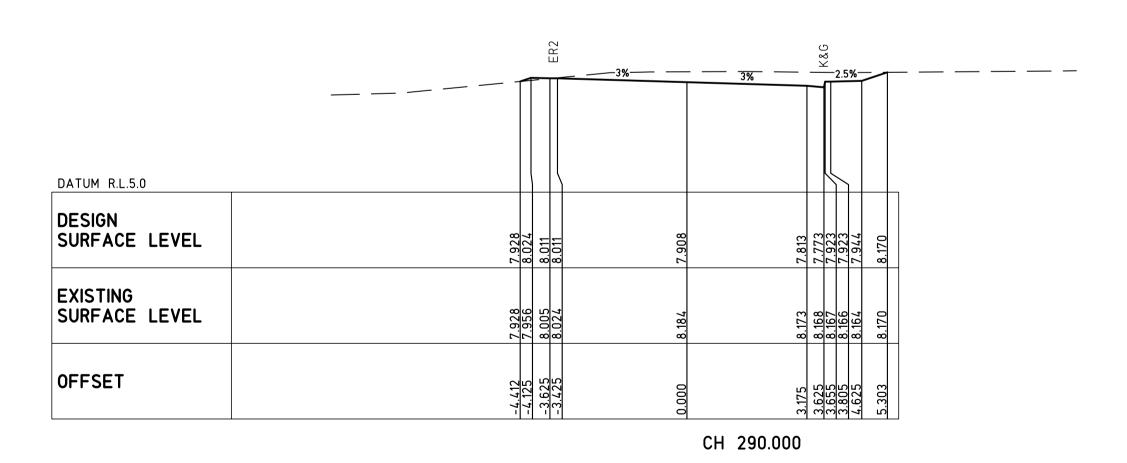












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0	ISSUED FOR REVIEW AT 30%	20.04.2021				
ISSUE	REASON FOR ISSUE	DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE	ISSUE	

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A.C.N. 098 542 575 SHEET 2 OF 2

CLIENT
BYRON SHIRE COUNCIL
ENTRY ROAD CROSS SECTIONS

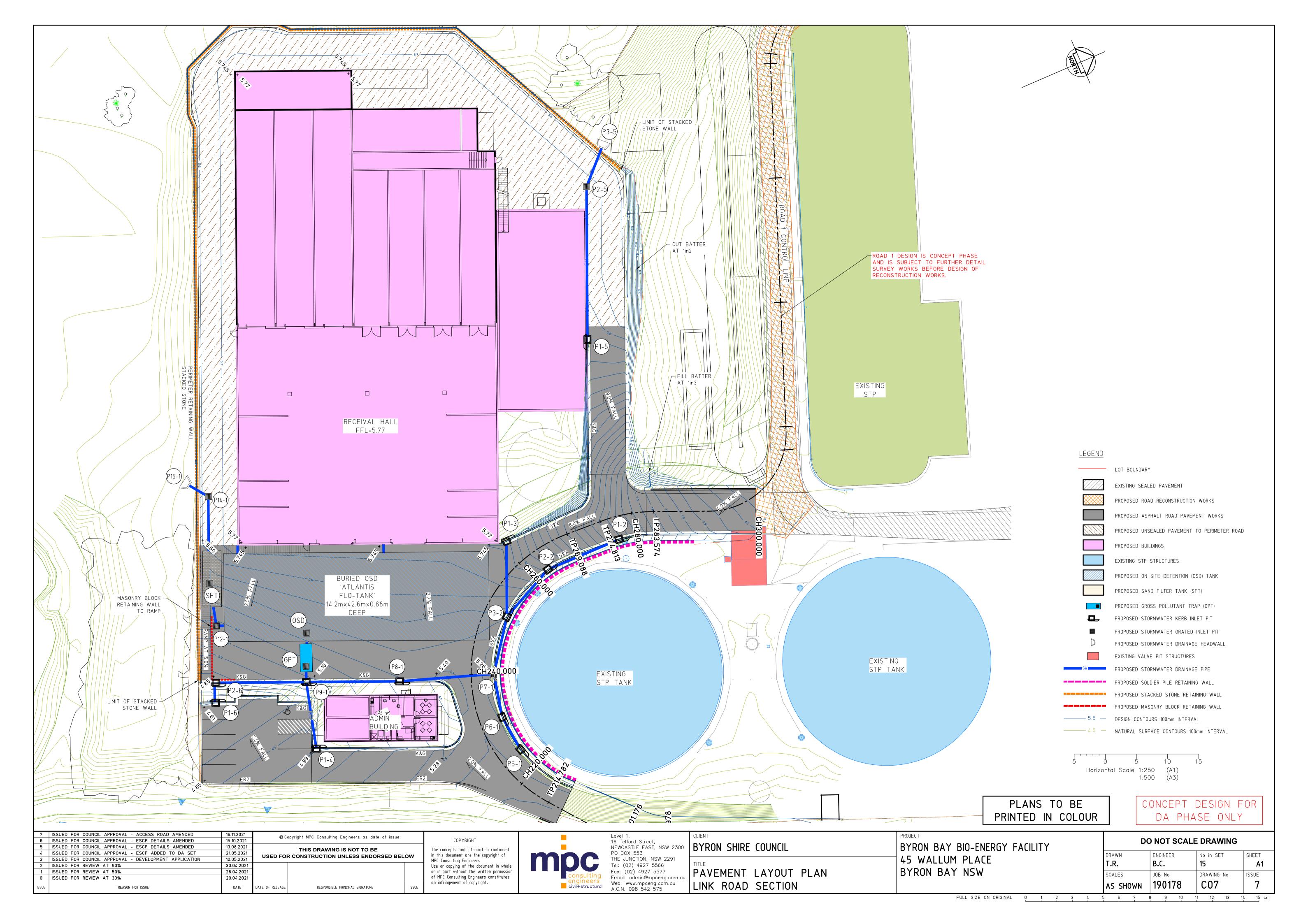
DO NOT SCALE DRAWING						
DRAWN T.R.	ENGINEER B.C.	No in SET	SHEET A1			
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AS SHOWN	190178	C06	7			

Horizontal Scale 1:100 (A1)

Vertical Scale 1:100 (A1) 1:200 (A3)

1:200 (A3)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm



SD GP 9 12 Р7 2 STRUCTURE NAME STRUCTURE DESCRIPTION EXISTING SURFACE — MINOR RE-SHAPING OF GROUND SURFACE LEVELS AT HEADWALL OUTLET, DETAILS T.B.C. AT CC DESIGN PHASE PIPE SIZE (mm) 375 375 PIPE SIZE / CLASS RCP RCP RCP RCP RCP RCP RCP RCP PIPE GRADE (%) 0.50% 0.50% 0.50% 0.50% 0.50% 0.43% 0.00% 0.50% 0.50% 1.00% PIPE SLOPE (1 in X) 200.0 200.0 200.0 200.0 230.9 1000000.0 200.0 200.0 100.0 200.0 PIPE FLOW (cumecs) CAPACITY FLOW (cumecs) FULL PIPE VELOCITY (m/s) NORMAL DEPTH VELOCITY (m/s) DATUM RL -3.000 10YR HGL IN PIPE DEPTH TO INVERT INVERT LEVEL OF PIPE/DRAIN DESIGN SURFACE LEVEL SETOUT COORDINATES CHAINAGE 4.019 6.008 7.070 15.196 15.000 2.539 6.818 14.650 6.908 13.441 LINE

PLANS TO BE PRINTED IN COLOUR

ISSUED FOR REVIEW AT 90%

ISSUED FOR REVIEW AT 50%

0 ISSUED FOR REVIEW AT 30%

ISSUED FOR COUNCIL APPROVAL - ACCESS ROAD AMENDED

ISSUED FOR COUNCIL APPROVAL - ESCP DETAILS AMENDED

ISSUED FOR COUNCIL APPROVAL - ESCP DETAILS AMENDED

ISSUED FOR COUNCIL APPROVAL - ESCP ADDED TO DA SET

ISSUED FOR COUNCIL APPROVAL - DEVELOPMENT APPLICATION

REASON FOR ISSUE

CONCEPT DESIGN FOR DA PHASE ONLY

DATE OF RELEASE

DATE

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BYRON SHIRE COUNCIL

STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 BYRON BAY BIO-ENERGY FACILITY 45 WALLUM PLACE BYRON BAY NSW

Horizontal Scale 1:250 (A1)

1:500 (A3)

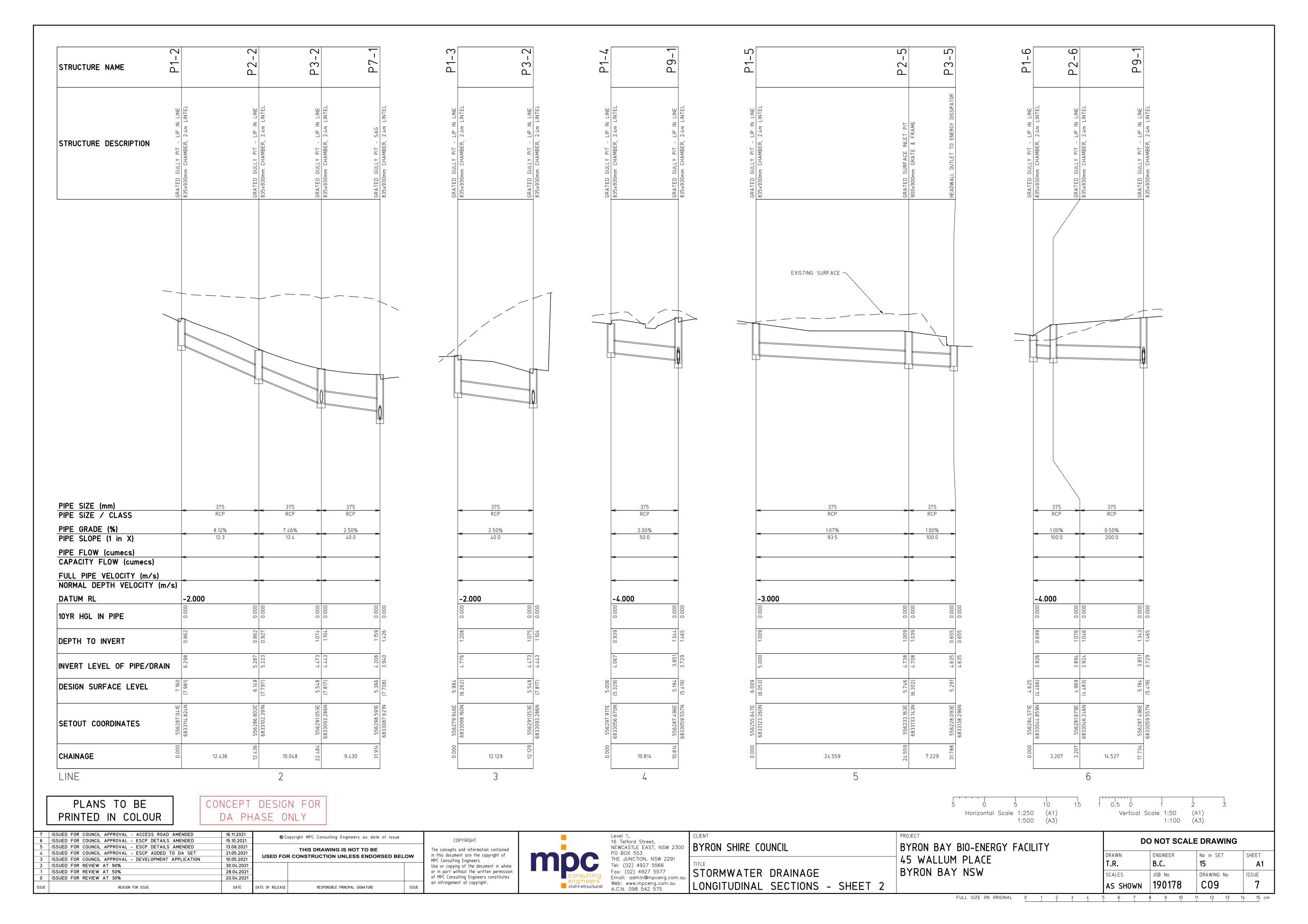
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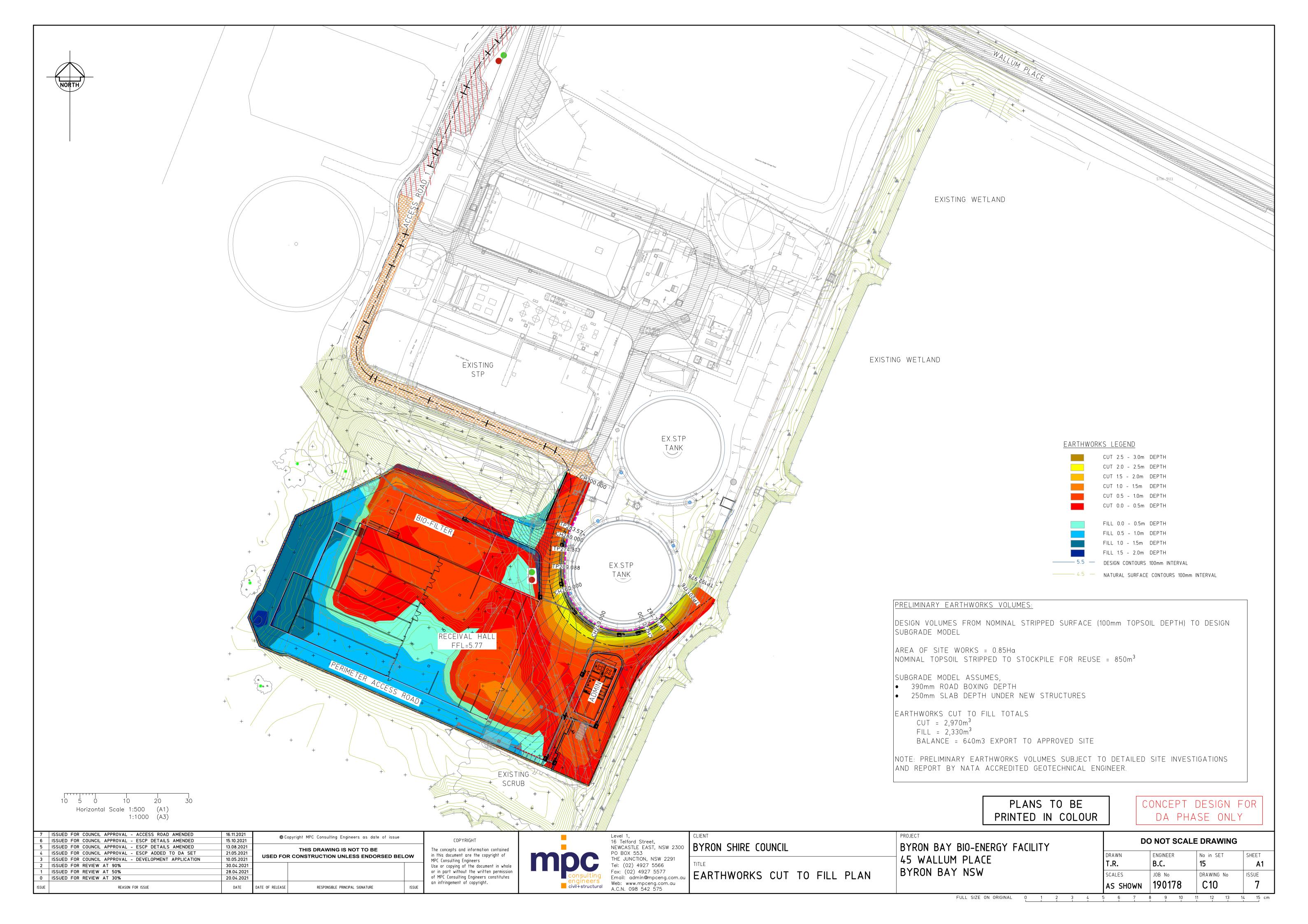
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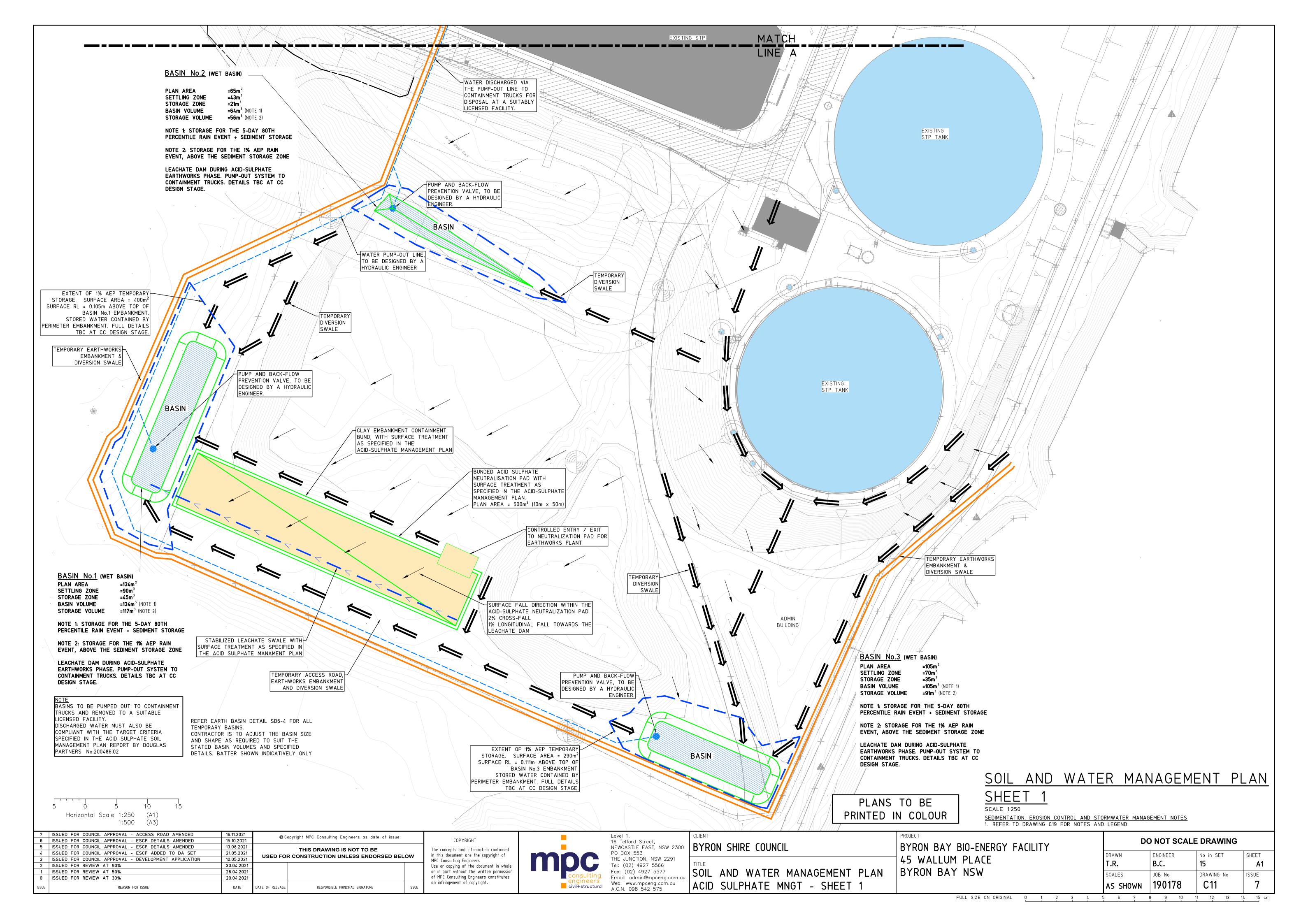
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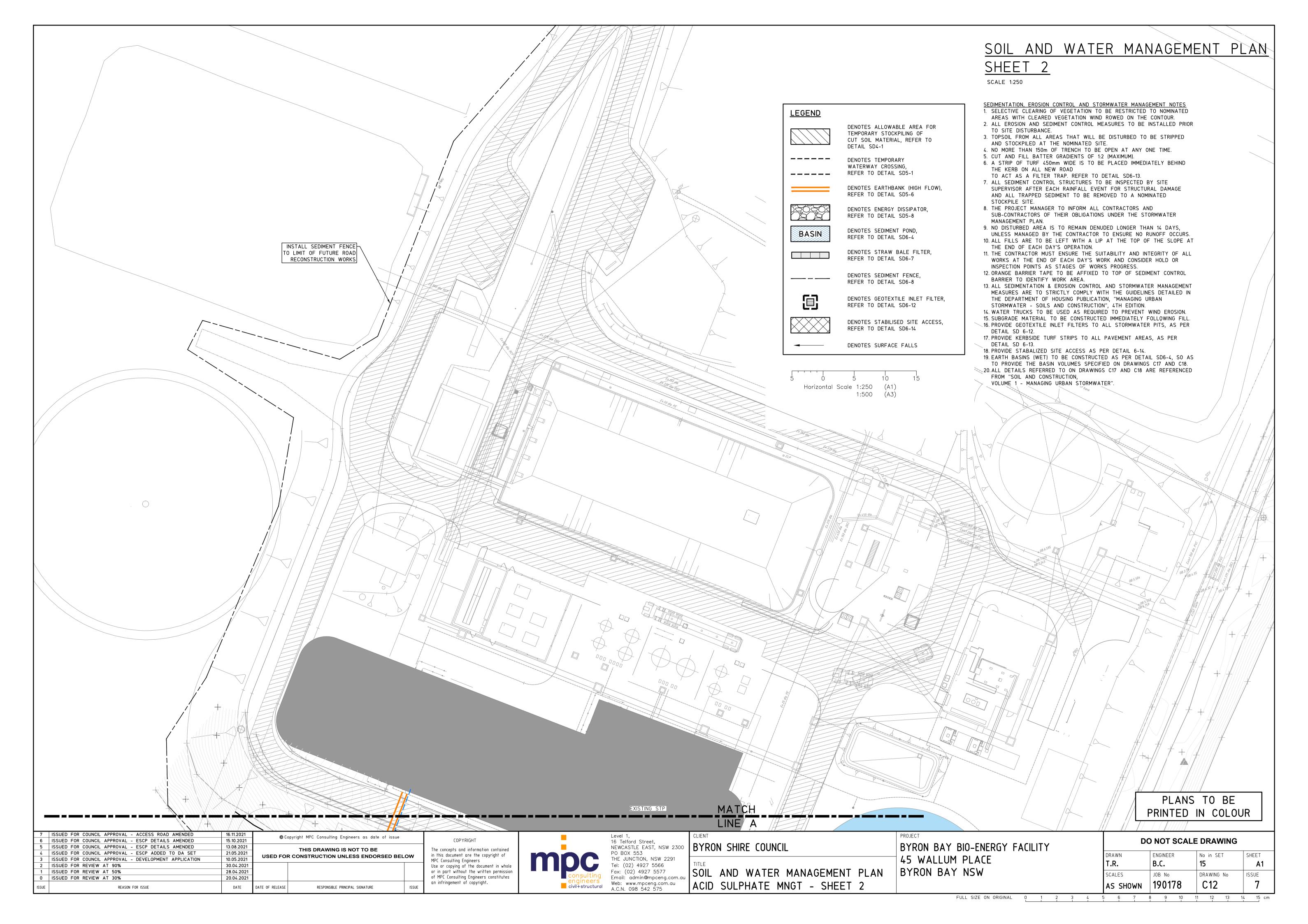
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm FULL SIZE ON ORIGINAL

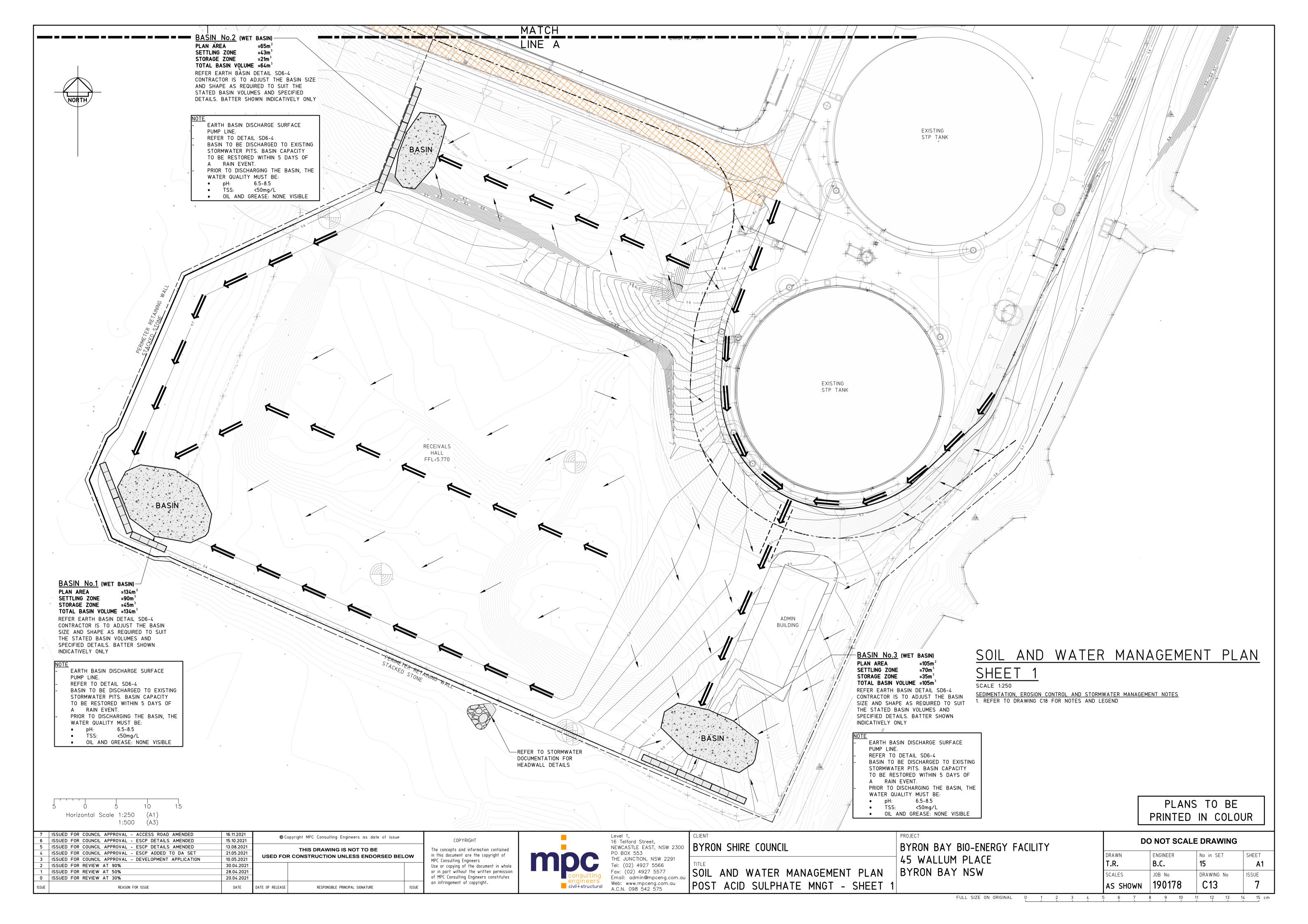
1 0.5 0

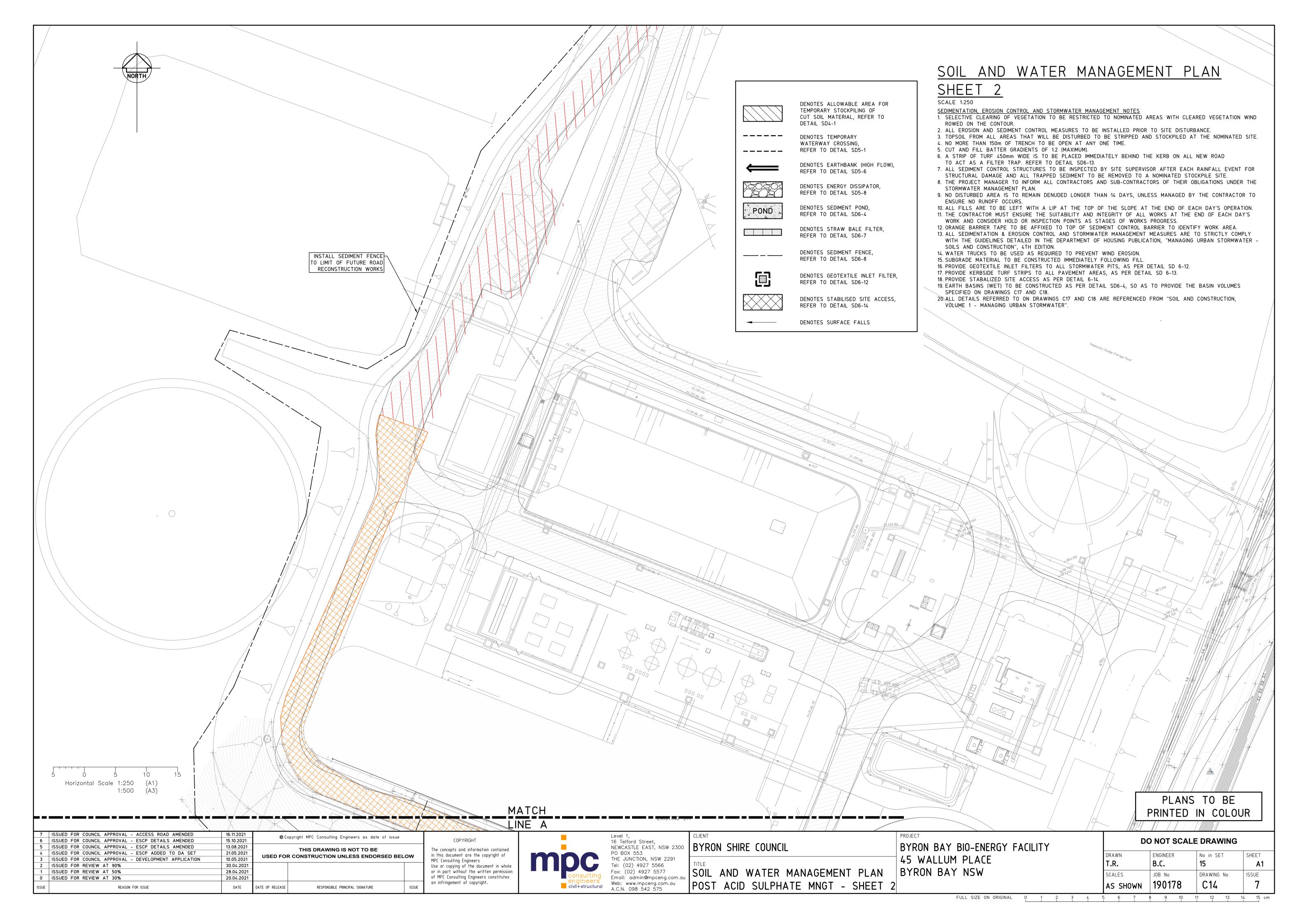


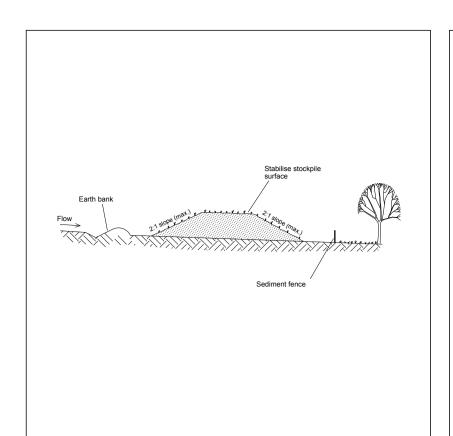








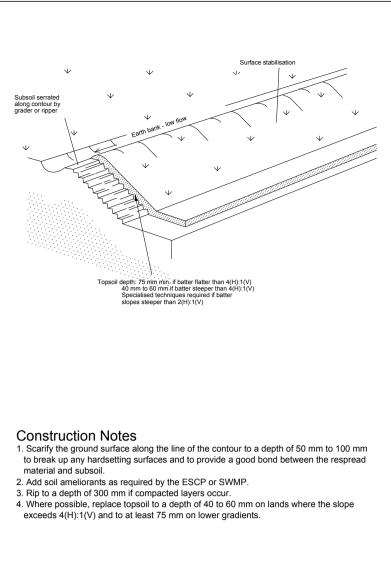




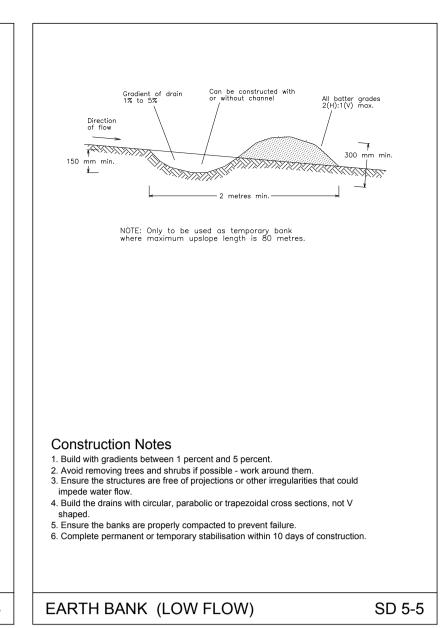
Construction Notes

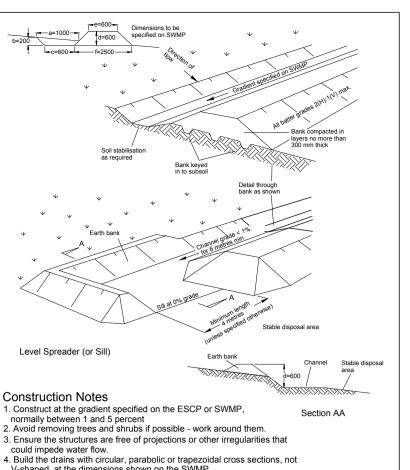
- . Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas
- . Construct on the contour as low, flat, elongated mounds . Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
- 4. Where they are to be in place for more than 10 days, stabilise following the approved 5. Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope

STOCKPILES



Construction Notes 1. Check dams can be built with various materials, including rocks, logs, sandbags and straw bales. The maintenance program should ensure their integrity is retained, especially where constructed with straw bales. In the case of bales, this might require their replacement each two to four months. 2. Trench the check dam 200 mm into the ground across its whole width. Where rock is used, fill the trenches to at least 100 mm above the ground surface to reduce the risk of undercutting. 3. Normally, their maximum height should not exceed 600 mm above the gully floor. The centre should act as a spillway, being at least 4. Space the dams so the toe of the upstream dam is level with the spillway of the next downstream dam.



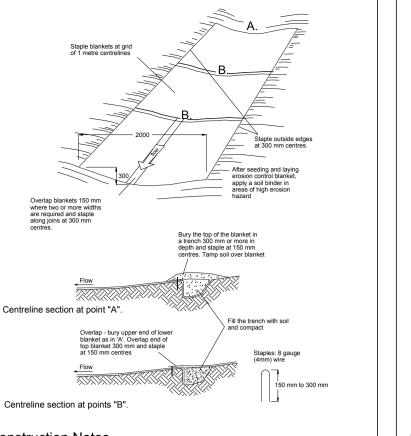


V-shaped, at the dimensions shown on the SWMP . Ensure the banks are properly compacted to prevent failure. Complete permanent or temporary stabilisation within 10 days of construction following Table 5.2 in Landcom (2004) 7. Where discharging to erodible lands, ensure they outlet through a properly constructed level spreader.

8. Construct the level spreader at the gradient specified on the ESCP or SWMP, normally less than 1 percent or level.

9. Where possible, ensure they discharge waters onto either stabilised or undisturbed disposal sites within the same subcatchment area from which the water originated. Approval might be required to discharge into other subcatchments

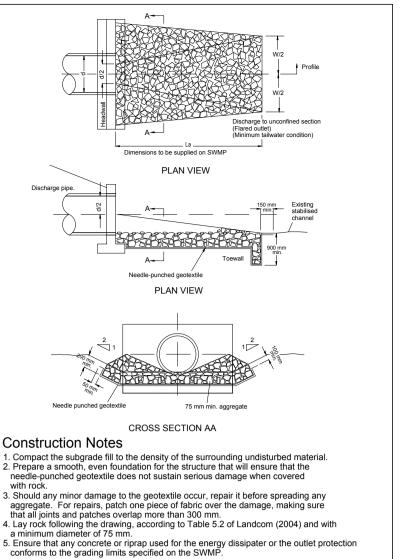
EARTH BANK (HIGH FLOWS) **RECP: CONCENTRATED FLOW**



Construction Notes

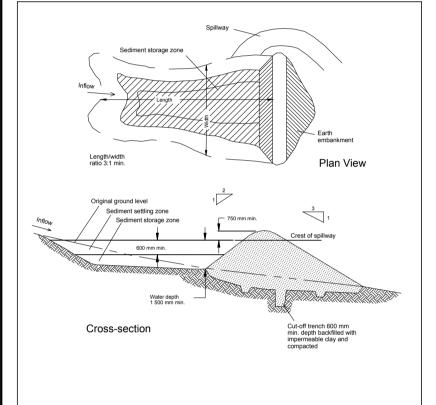
. Remove any rocks, clods, sticks or grass from the surface before laying matting 2. Ensure that topsoil is at least 75 mm deep. 3. Complete fertilising and seeding before laying the matting. 4. Ensure fabric will be continuously in contact with the soil by grading the surface carefully first.

5. Lay the fabric in "shingle-fashion", with the end of each upstream roll overlapping those downstream. Ensure each roll is anchored properly at its upslope end. 6. Ensure that the full width of flow in the channel is covered by the matting up to the design storm event, usually in the 10-year ARI time of concentration storm event. . Divert water from the structure until vegetation is stabilised properly.



ENERGY DISSIPATER

SD 5-8



Construction Notes

- . Remove all vegetation and topsoil from under the dam wall and from within the storage area 2. Construct a cut-off trench 500 mm deep and 1,200 mm wide along the centreline of the embankment extending to a point on the gully wall level with the riser crest.
- 3. Maintain the trench free of water and recompact the materials with equipment as specified 4. Select fill following the SWMP that is free of roots, wood, rock, large stone or foreign material.
- 5. Prepare the site under the embankment by ripping to at least 100 mm to help bond compacted fill to the existing substrate. 6. Spread the fill in 100 mm to 150 mm layers and compact it at optimum moisture content
- following the SWMP. 7. Construct the emergency spillway. 8. Rehabilitate the structure following the SWMP.

EARTH BASIN - WET

SD 6-4 (APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY

refers to Erosion and Sediment Control Plan or a Soil and Water Management Plan (SWMP).

Sediment, includes, but is not limited to, clay, silt, sand, gravel, soil, mud, cement, and ceramic waste.

showing ESC measures for that Stage. The degree of design detail shall be based on the disturbed area.

characteristics including soils (in accordance with those required for the site as per DCP).

IFCA White Books or other current recognised industry standard for ESC for Australian conditions

appropriate ESCP, and allow the selection, design and specification of required ESC measures.

a) compliance with the ESCP would increase the potential for environmental harm; or

sonable restoration works within the timeframe specified by the Council.

business days of any such amendments) in the event that:

site conditions significantly change; or

4 Any reference to the Blue Book refers to Managing Urban Stormwater - Soils and Construction. Landcom, 2004.

5 Any reference to the IECA White Books (2008) refers to IECA 2008. Best Practice Erosion and Sediment Control. Books

THE ESCP

7 The ESCP and its associated ESC measures shall be constantly monitored, reviewed, and modified as required to correct

1 to solvior, the measures that are proposed or have been in

6 Any material deposited in any conservation area from works associated with the development shall be removed immediately by

measures involving minimal ground and/or vegetation disturbance and no machinery, or following directions by Council and/or

deficiencies. Council has the right to direct changes if, in its opinion, the measures that are proposed or have been installed

8 Prior to any activities onsite, the responsible person(s) is to be nominated. The responsible person(s) shall be responsible for

9 At least 14 days before the natural surface is disturbed in any new stage, the contractor shall submit to the Certifier, a plan

The approved ESCP shall be available on—site for inspection by Council officers while work activities are occurring.

The approved ESCP shall be up to date and show a timeline of installation, maintenance and removal of ESC measures. All ESC measures shall be appropriate for the Sediment Type(s) of the soils onsite, in accordance with the Blue Book,

Adequate site data, including soil data from a NATA approved Laboratory, shall be obtained to allow the preparation of an

The implementation of the ESCP shall be supervised by personnel with appropriate qualifications and/or experience in ESC

the ESC measures onsite. The name, address and 24 hour contact details of the person(s) shall be provided to Council in

writing. Council shall be advised within 48 hours of any changes to the responsible person(s), or their contact details, in

10 At any time during construction, the ESC measures on its shall be appropriate for the area of disturbance and its

16 All works shall be carried out in accordance with the approved ESCP (as amended from time to time) unless

circumstances change during construction and those circumstances could not have been foreseen; or

b) the implemented works fail to achieve Council's water quality objectives specified in these conditions; or

d) site inspections indicate that the implemented works are failing to achieve the "objective" of the ESCP.

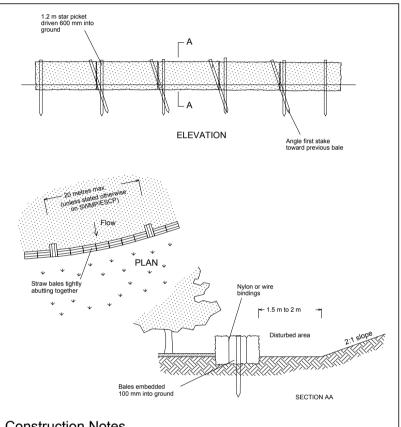
c) Council determines that unacceptable off-site sedimentation is occurring as a result of a land-disturbing activity. In

17 Additional ESC measures shall be implemented, and a revised ESCP submitted for approval to the certifier (within five

either case, the person(s) responsible may be required to take additional, or alternative protective action, and/or undertake

a) there is a high probability that serious or material environmental harm may occur as a result of sediment leaving the site;

A copy of any amended ESCP shall be forwarded to an appropriate Council Officer, within five business days of any such

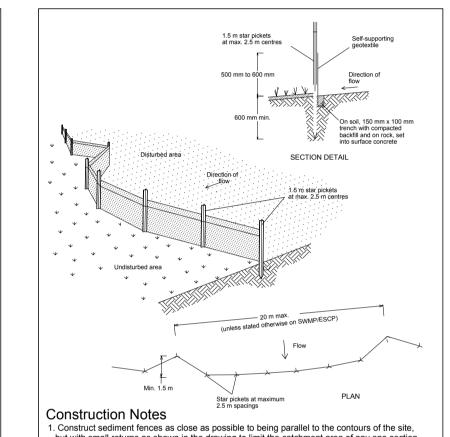


REPLACING TOPSOIL

- Construct the straw bale filter as close as possible to being parallel to the contours of the site. Place bales lengthwise in a row with ends tightly abutting. Use straw to fill any gaps between bales. Straws are to be placed parallel to ground Ensure that the maximum height of the filter is one bale. ed each bale in the ground 75 mm to 100 mm and ar or stakes. Angle the first star nicket or stake in each hale towards the previously laid hale Drive them 600 mm into the ground and, if possible, flush with the top of the bales. Where star pickets are used and they protrude above the bales, ensure they are fitted with
- 5. Where a straw bale filter is constructed downslope from a disturbed batter, ensure the bales are placed 1 to 2 metres downslope from the toe.

 6. Establish a maintenance program that ensures the integrity of the bales is retained - they could require replacement each two to four months

STRAW BALE FILTER



ROCK CHECK DAM

but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event. 2. Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to

Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps. 4. Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this

5. Join sections of fabric at a support post with a 150-mm overlap. 6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile

SEDIMENT FENCE

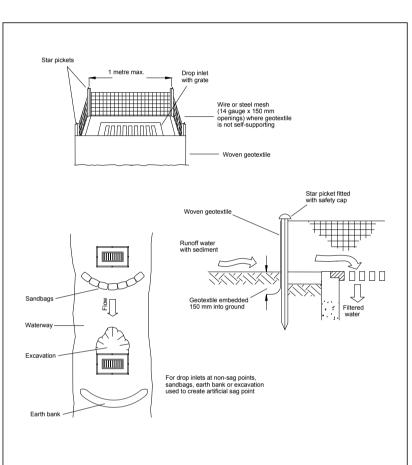
NOTE: This practice only to be used where specified in an approved SWMP/ESC

Construction Notes

- . Install filters to kerb inlets only at sag points Fabricate a sleeve made from geotextile or wire mesh longer than the length of the inlet pit and fill it with 25 mm to 50 mm gravel.
- 3. Form an elliptical cross-section about 150 mm high x 400 mm wide. 4. Place the filter at the opening leaving at least a 100-mm space between it and the kerb inlet. Maintain the opening with spacer blocks. 6. Sandbags filled with gravel can substitute for the mesh or geotextile providing they are

placed so that they firmly abut each other and sediment-laden waters cannot pass between MESH AND GRAVEL INLET FILTER SD 6-11

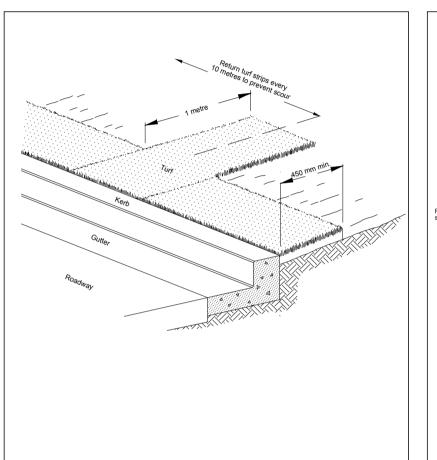
SOIL AND WATER MANAGEMENT DETAILS



Construction Notes

- Fabricate a sediment barrier made from geotextile or straw bales 2. Follow Standard Drawing 6-8 for installation procedures for
- the straw bales or geofabric. Reduce the picket spacing to 1 metre centres. 3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing. 4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters

GEOTEXTILE INLET FILTER SD 6-12



Install a 450 mm minimum wide roll of turf on the footpath next to the kerb and at

2. Lay 1.4 metre long turf strips normal to the kerb every 10 metres

3. Rehabilitate disturbed soil behind the turf strip following the ESCP/SWMP

Construction Notes 1. Strip the topsoil, level the site and compact the subgrade

SD 6-13

2. Cover the area with needle-punched geotextile 3. Construct a 200 mm thick pad over the geotextile using road base or 30 mm aggregate. 4. Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres 5. Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised

access to divert water to the sediment fence

STABILISED SITE ACCESS SD 6-14

EROSION AND SEDIMENTATION CONTROL NOTES:

2 ESC refers to erosion and sediment control.

within a timeframe advised by Council.

1-6.International Erosion Control Association (Australasia). Picton NSW.

SITE ESTABLISHMENT INCLUDING CLEARING AND MULCHING

19 No land clearing shall be undertaken unless preceded by the installation of adequate drainage and sediment control measures, unless such clearing is required for the purpose of installing such measures, in which case, only the minimum clearing required to install such measures shall occur.

20 Bulk tree clearing and grubbing of the site shall be immediately followed by specified temporary erosion control measures (e.g. temporary grassing or mulching) prior to commencement of each stage of construction works. 21 Trees and vegetation cleared from the site shall be mulched onsite within 7 days of clearing. 22 Appropriate measures shall be undertaken to control any dust originating due to the mulching of vegetation onsite. 23 All office facilities and operational activities shall be located such that any effluent, including wash-down water, can be totally

SD 6-7

contained and treated within the site. 24 All reasonable and practicable measures shall be taken to ensure stormwater runoff from access roads and stabilised entry/exit systems, drains to an appropriate sediment control device.

25 Site exit points shall be appropriately managed to minimise the risk of sediment being tracked onto sealed, public roadways. 26 Stormwater runoff from access roads and stabilised entry/exit points shall drain to an appropriate sediment control device. 27 The Applicant shall ensure an adequate supply of ESC, and appropriate pollution clean-up materials are available on-site at

28 All temporary earth banks, flow diversion systems, and sediment basin embankments shall be machine-compacted, seeded and mulched within ten (10) days of formation for the purpose of establishing a vegetative cover, or lined appropriately. 29 Sediment deposited off site as a result of on-site activities shall be collected and the area cleaned/rehabilitated as soon as

30 Concrete waste and chemical products, including petroleum and oil-based products, shall be prevented from entering any internal or external water body, or any external drainage system, excluding those on-site water bodies specifically designed to contain and/or treat such material. Appropriate measures shall be installed to trap these materials onsite. 31 Brick, tile or masonry cutting shall be carried out on a pervious surface (e.g. grass or open soil) and in such a manner

that any resulting sediment—lader runoff is prevented from discharging into a gutter, drain or water. Appropriate measures shall be installed to trap these materials onsite. 32 Newly sealed hard—stand areas (e.g. roads, driveways and car parks) shall be swept thoroughly as soon as practicable after sealing/surfacing to minimise the risk of components of the surfacing compound entering stormwater drains. 33 Stockpiles of erodible material shall be provided with an appropriate protective cover (synthetic or organic) if the materials

34 Stockpiles, temporary or permanent, shall not be located in areas identified as no-go zones (including, but not limited to, restricted access areas, buffer zones, or areas of non-disturbance) on the ESCP. 35 No more than 150m of a stormwater, sewer line or other service trench shall to be open at any one time 36 Site spoil shall be lawfully disposed of in a manner that does not result in ongoing soil erosion or environmental harm.

37 Wherever reasonable and practicable, stormwater runoff entering the site from external areas, and non-sediment laden (clean) stormwater runoff entering a work area or area of soil disturbance, shall be diverted around or through that area in a manner that minimises soil erosion and the contamination of that water for all discharges up to the specified design storm

SD 6-8

SITE MANAGEMENT INCLUDING DUST 38 Priority shall be given to the prevention, or at least the minimisation, of soil erosion, rather than the trapping of displaced sediment. Such a clause shall not reduce the responsibility to apply and maintain, at all times, all necessary ESC measures. 39 Measures used to control wind erosion shall be appropriate for the location and prevent soil erosion at all times, including working hours, out of hours, weekends, public holidays, and during any other shutdown periods

40 The application of liquid or chemical-based dust suppression measures shall ensure that sediment-laden runoff resulting from such measures does not create a traffic or environmental hazard. 41 All cut and fill earth batters less than 3m in elevation shall be topsoiled, and grass seeded/hydromulched within 10 days of completion of grading in consultation with Council.

42 Once cut/fill operations have been finalised in a section, all disturbed areas that are not being worked on shall be stabilised in accordance with time lines in the Blue Book.

43 All reasonable and practicable measures shall be taken to prevent, or at least minimise, the release of sediment from the 44 Suitable all-weather maintenance access shall be provided to all sediment control devices. 45 Sediment control devices, other than sediment basins, shall be de-silted and made fully operational as soon as reasonable

and practicable after a sediment-producing event, whether natural or artificial, if the device's sediment retention capacity falls below 75% of its design retention capacity. 46 All erosion and sediment control measures, including drainage control measures, shall be maintained in proper working order at all times during their operational lives.

47 Washing/flushing of sealed roadways shall only occur where sweeping has failed to remove sufficient sediment and there is a compelling need to remove the remaining sediment (e.g. for safety reasons). In such circumstances, all reasonable and practicable sediment control measures shall be used to prevent, or at least minimise, the release of sediment into receiving waters. Only those measures that will not cause safety and property flooding issues shall be employed. Sediment removed roadways shall be disposed of in a lawful manner that does not cause ongoing soil erosion or environmental harm. 48 Sediment removed from sediment traps and places of sediment deposition shall be disposed of in a lawful manner that does not cause ongoing soil erosion or environmental harm

SEDIMENT BASINS - INSTALLATION, MAINTENANCE AND REMOVAL INCLUDING SEDIMENT TRAPS 49 As-Constructed plans shall be prepared for all constructed Sediment Basins and associated emergency spillways. Such plans shall verify the basin's dimensions, levels and volumes comply with the approved design drawings. These plans may be

50 Sediment basins shall be constructed and fully operational prior to any other soil disturbance in their catchment. 51 Install an internal gated valve, or similar, in any outlet pipe once pipes installed, or install a sacrificial pipe from basin through wall to external outlet point. The valve shall be connected to a riser made from slotted pipe in the basin. The valve may be opened once captured water meets water quality requirements. The final setup for temporary internal outlet

structures to be confirmed prior to construction with Council. This setup will enable discharge of treated water from site

without need for pumping. 52 A sediment storage level marker post shall be with a cross member set just below the top of the sediment storage zone (as specified on the approved ESCP). At least a 75mm wide post shall be firmly set into the basin floor. 53 The Site Manager shall obtain the relevant approvals from the relevant organisations to discharge treated water from any existing basins. Organisations may include, but not be limited to, Hunter Water, and Council

55 Prior to any forecast weather event likely to result in runoff, any basins/traps shall be dewatered to provide sufficient 56 Sufficient quantities of chemicals/agents to treat captured water shall be placed such that water entering the basin mixes with the chemical/agents and is carried into the basin to speed up clarification. 57 Any basin shall be dewatered within the X-day rainfall depth used to calculate the capacity of the basin, after a rainfall

58 Sufficient quantities of chemicals/agents to treat turbid water shall be securely stored on-site to provide for at least three

54 Where more than one stage is to be developed at one time, or before the preceding stage is complete, the sediment

basin(s) for these stages shall have sufficient capacity to cater for all area directed to the basin(s)

SEDIMENT BASINS - INSTALLATION, MAINTENANCE AND REMOVAL INCLUDING SEDIMENT TRAPS CONT'D

- 59 Prior to the controlled discharge (e.g. de-watering activities) from excavations and/or sediment basins, the following water
- a) Total Suspended Solids (TSS) to a maximum 50mg/L: b) water pH between 6.5 and 8.5, unless otherwise required by the Council;
- c) Turbidity (measured in NTUs) to a maximum of 60 NTU); and d) EC levels no greater than background levels.
- 60 The Development Approval may require testing of additional water quality elements prior to discharge. E.g. heavy metals. 61 A sample of the released treated water shall be kept onsite in a clear container with the sample date recorded on it.

62 Water quality samples shall be taken at a depth no less than 200mm below the water surface of the basin. 63 No Aluminium based products may be used treat captured water onsite without the prior written permission from an The applicant shall have a demonstrated ability to use such products correctly and without environmental harm prior to any approval.

concentrations sufficient to achieve Council's water quality objectives within the X-day rainfall depth used to calculate the capacity of the basin, after a rainfall event. 65 All Manufacturers' Instructions shall be followed for any chemicals/agents used onsite, except where approved by the esponsible Person or an appropriate Council Officer.

64 The chemical/agent used in Type D and Type F basins to treat captured water captured in the basin shall be applied in

66 The Applicant shall ensure that on each occasion a Type F or Type D basin was not de-watered prior to being surcharged by a following rainfall event, a report is presented to an appropriate Council officer within 5 days identifying the circumstances and proposed amendments, if any, to the basin's operating procedures. 67 Settled sediment shall be removed as soon as reasonable and practicable from any sediment basin if:

a) it is anticipated that the next storm event is likely to cause sediment to settle above the basin's sediment storage zone;

b) the elevation of settled sediment is above the top of the basin's sediment storage zone; or c) the elevation of settled sediment is above the basins sediment marker line.

68 Scour protection measures placed on sediment basin emergency spillways shall appropriately protect the spillway chute and its side batters from scour, and shall extend a minimum of 3m beyond the downstream toe of the basin's embankment. 69 Suitable all-weather maintenance access shall be provided to all sediment control devices.

70 Materials, whether liquid or solid, removed from any ESC measures during maintenance or decommissioning, shall be disposed of in a manner that does not cause ongoing soil erosion or environmental harm 71 All sediment basin's shall remain fully operational at all times until the basin's design catchment achieves 70% ground cover or surface stabilisation acceptable to Counci

72 The ESC measures installed during the decommissioning and rehabilitation of a sediment basin shall comply with same

standards specified for the normal construction works. 73 A sediment basin shall not be decommissioned until all up-slope site stabilisation measures have been implemented and are appropriately working to control soil erosion and sediment runoff 74 Immediately prior to the construction of the permanent stormwater treatment device, appropriate flow bypass conditions shall be established to prevent sediment-laden water entering the device.

Construction Notes

the same level as the top of the kerb

KERBSIDE TURF STRIP

REVEGETATION/STABILISATION 75 Temporary Stabilisation may be attained using vegetation, non rewettable soil polymers, or pneumatically applied erosion

76 All cut and fill earth batters less than 3m in elevation shall be topsoiled, and grass seeded/hydromulched within 10 days of

77 Once cut/fill operations have been finalised in a section, all disturbed areas that are not being worked on shall be stabilised

78 The LMCC Seed mix shall be used unless stated on the ESCP/SWMP. 79 The pH level of topsoil shall be appropriate to enable establishment and growth of specified vegetation prior to initiating the establishment of vegetation 80 Non rewettable binder shall be used in all hydromulch/hydroseed/polymer mixes on slopes or works adjacent to a water

81 Soil ameliorants shall be added to the soil in accordance with an approved Landscape Plan, Vegetation Management Plan, 82 Surface soil density, compaction and surface roughness shall be adjusted prior to seeding/planting in accordance with an

approved Landscape Plan, Vegetation Management Plan, and/or soil analysis. 83 Procedures for initiating a site shutdown, whether programmed or un-programmed, shall incorporate revegetation of all soil disturbances unless otherwise approved by Council. The stabilisation works shall not rely upon the longevity of non-vegetated erosion control blankets, or temporary soil binders. SITE MONITORING AND MAINTENANCE

84 The Applicant shall ensure that appropriate procedures and suitably qualified personnel are engaged to plan and conduct site inspections and water quality monitoring throughout the construction and maintenance phas

85 All ESC measures shall be inspected and any maintenance undertaken immediately: a) at least daily (when work is occurring on-site); and

b) at least weekly (when work is not occurring on-site); and c) within 24hrs of expected rainfall; and d) within 18hrs of a rainfall event that causes runoff on the site.

86 Written records shall be kept onsite of ESC monitoring and maintenance activities conducted during the construction and maintenance periods, and be available to Council officers on request. 87 All environmentally relevant incidents shall be recorded in a field log that shall remain accessible to all relevant regulatory

88 All water auglity data, including dates of rainfall, dates of testing, testing results and dates of water release, shall be kept in an on-site register. The register is to be maintained up to date for the duration of the approved works and be available on-site for inspection by [insert name of regulatory authority] on request. 89 At nominated instream water monitoring sites, a minimum of 3 water samples shall be taken and analysed, and the average

result used to determine quality. 90 All instream works (including in or adjacent to watercourses natural or manmade, flowing or not) shall be carried out in

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5	ISSUED FOR COUNCIL APPROVAL - ESCP DETAILS AMENDED	13.08.2021		THIS DRAWING IS NOT TO BE	
4	ISSUED FOR COUNCIL APPROVAL - ESCP ADDED TO DA SET	21.05.2021	11000 000		014/
3	ISSUED FOR COUNCIL APPROVAL - DEVELOPMENT APPLICATION	10.05.2021	USED FOR	R CONSTRUCTION UNLESS ENDORSED BEL	LOVV
2	ISSUED FOR REVIEW AT 90%	30.04.2021			
1	ISSUED FOR REVIEW AT 50%	28.04.2021			
0	ISSUED FOR REVIEW AT 30%	20.04.2021			
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complete treatments of all basins requiring chemically treatment onsite

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BYRON SHIRE COUNCIL

SOIL AND WATER MANAGEMENT **DETAILS**

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accordance with the IECA White Books

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